



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

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Freedom of Information ACT

Professional Standards Board

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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).

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

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 16 Jul 2024 .

(71) Aarons, J.; Ralph, G.L.T. (21) 2024902287 (22) 23.07.2024 (54) REMOTE EYE GAZE CURSOR CONTROL TECHNOLOGY	(71) Bonorchis, A. (21) 2024902277 (22) 22.07.2024 (54) A Block and Methods of Forming a Wall	(71) Cole, D. (21) 2024902207 (22) 17.07.2024 (54) Ceiling, wall recessed scent diffuser
(71) Advanced Agricultural Systems Pty Ltd (21) 2024902215 (22) 17.07.2024 (54) System & Method for Autonomously Refilling Agricultural Robots	(71) Boutique planners (21) 2024902239 (22) 18.07.2024 (54) Boutique planting structures and items which help people grow various items at home, including herbs, vegetables and varieties of beans. Using modern boutique planters which can also enclose the structure giving it more bench space as it can be used as such.	(71) Corporaal Enterprises Pty Ltd (21) 2024902230 (22) 18.07.2024 (54) BUILDING BLOCK
(71) Advanced Agricultural Systems Pty Ltd (21) 2024902218 (22) 17.07.2024 (54) Agricultural Robot Refilling Apparatus & System	(71) Buchanans Group Pty Ltd (21) 2024902273 (22) 22.07.2024 (54) COVER ARRANGEMENT	(71) Cummins, I.G. (21) 2024902228 (22) 17.07.2024 (54) "Cold Fission" Water reactors producing green hydrogen (H2) by destroying oxygen (O) electrons H2O technology
(71) Aus Aqua Airfresh Pty Ltd (21) 2024902216 (22) 17.07.2024 (54) Toilet flush system	(71) Bucher Municipal Pty Ltd (21) 2024902260 (22) 19.07.2024 (54) Bulk waste compaction apparatus	(71) Cutting Edges Equipment Parts Pty Ltd (21) 2024902258 (22) 19.07.2024 (54) Pin system for securing ground engaging tools
(71) Aus Aqua Airfresh Pty Ltd (21) 2024902217 (22) 17.07.2024 (54) A toilet system	(71) Burgess, S. (21) 2024902282 (22) 22.07.2024 (54) Parabolic Soccer Wall Training Device 2.	(71) Cyber Security Research Centre Limited (21) 2024902235 (22) 18.07.2024 (54) IOT Transport
(71) Australian Pet Health Pty Ltd (21) 2024902296 (22) 23.07.2024 (54) SCENTED ANIMAL TOY	(71) CAMPBELL, T. (21) 2024902267 (22) 21.07.2024 (54) SELF LEVELLING PLASTER COMPOUND APPLICATOR 2	(71) Edey, A. (21) 2024902274 (22) 22.07.2024 (54) COMBINED DOG WASTE BAG DISPENSER AND CONTAINER
(71) Axxin Pty Ltd (21) 2024902236 (22) 18.07.2024 (54) Diagnostic Test Assemblies, Systems and Methods	(71) Card Armour Pty Ltd (21) 2024902249 (22) 19.07.2024 (54) Flat memorabilia protector	(71) Erskine Holdco Pty Ltd (21) 2024902219 (22) 17.07.2024 (54) Interdental brush
(71) Bampton, C. (21) 2024902297 (22) 23.07.2024 (54) Development and Application of Nanotechnology to enhance the volume of energy during the transmission and transformer process	(71) Carden, B. (21) 2024902270 (22) 22.07.2024 (54) Massage Therapy Device	(71) Eustralis Pharmaceuticals Limited (trading as PresSura Neuro) (21) 2024902254 (22) 19.07.2024 (54) Administration Methods for Reducing Intracranial Pressure

Provisional Applications Filed - Name Index cont'd

(71) Fastbrick IP Pty Ltd
(21) 2024902242 (22) 18.07.2024
(54) LOADER FOR HANDLING PALLETS AND CONTAINERS

(71) Four Guardians Pty Ltd
(21) 2024902279 (22) 22.07.2024
(54) A PROTEASE INHIBITOR AND THE PHARMACEUTICAL SALT THEREOF

(71) Future Battery Industries CRC Ltd
(21) 2024902243 (22) 18.07.2024
(54) Turbostratic carbon film

(71) Gearon, M.
(21) 2024902252 (22) 19.07.2024
(54) Wind Turbine blade improvements

(71) Glencore Technology Pty Limited
(21) 2024902259 (22) 19.07.2024
(54) Improved flotation apparatus and methods

(71) Golias, M.E.
(21) 2024902286 (22) 23.07.2024
(54) AN IMPROVED DRAIN GRATE ASSEMBLY

(71) Hopkins, T.
(21) 2024902253 (22) 19.07.2024
(54) Motorised Horizontal Outdoor Screening System

(71) Hotspot Cricket Pty Ltd
(21) 2024902232 (22) 18.07.2024
(54) System and Method for Analysing Batting Performance Using Colour Changing Pressure-Sensitive Coating and Image Processing Techniques

(71) Illinois Tool Works Inc.
(21) 2024902256 (22) 19.07.2024
(54) Anchor

(71) James, B.M.
(21) 2024902208 (22) 17.07.2024
(54) Plant extraction device

(71) Jonlo Engineering Pty Ltd
(21) 2024902265 (22) 21.07.2024
(54) CONTINUOUS TRACKING AND ACCOUNTABILITY IN A HYBRID VALIDATION FRAMEWORK FOR AI REASONING USING BLOCKCHAIN TECHNOLOGY

(71) KESA (AUST) PTY LTD
(21) 2024902210 (22) 17.07.2024
(54) Self Structuring Portable Hoist

(71) Lambert, D.
(21) 2024902211 (22) 17.07.2024
(54) DIGITAL REPRESENTATION OF A TRANSACTIVE MEMORY SYSTEM

(71) Mackenzie, B.
(21) 2024902226 (22) 17.07.2024
(54) E.A.R.S. - Emergency Awareness Receiver & Sender

(71) Madad Pty Ltd
(21) 2024902257 (22) 19.07.2024
(54) Mattress innerspring bladder system

(71) Margi, J.; Tan, J.
(21) 2024902261 (22) 19.07.2024
(54) Refrigerated Pet Bowl Apparatus

(71) Metlam Australia Pty Ltd
(21) 2024902212 (22) 17.07.2024
(54) Hinge

(71) Mineral Technologies Pty Ltd
(21) 2024902213 (22) 17.07.2024
(54) System and Method for Decoupling Process Water Circuits

(71) MonuBloc Pty Ltd
(21) 2024902229 (22) 18.07.2024
(54) A building device and wall system comprising the same

(71) MORSE MICRO PTY. LTD.
(21) 2024902285 (22) 23.07.2024
(54) Methods and devices of time-to-digital converter power saving mode

(71) Muddie's Holdings Pty Ltd
(21) 2024902237 (22) 18.07.2024
(54) Segment for a crushing and sizing drum

(71) Nelson, P.
(21) 2024902281 (22) 22.07.2024
(54) SYSTEM AND METHOD

(71) Nibbs, W.
(21) 2024902251 (22) 19.07.2024
(54) Towbar toolbox bracket/tray, fits inside the towbar connection on your car, and has a welded bracket the same size of a chequer plate toolbox or a similar style toolbox of your choice. It is a one piece connection for strength, fully welded by and authorised welder. The main bar is connected to the vehicle by your standard hinch pin as standard for a towbar hinch. The main sub frame is secured by another hinch pin system to enable the frame to move along the

main bar connection, for accessibility to the boot of your vehicle. All of the frame is made from steel and powdercoated or painted black

(71) ONCOREVIVE HOLDINGS PTY LTD
(21) 2024902271 (22) 22.07.2024
(54) SURFACE-ENHANCED RAMAN SPECTROSCOPY (SERS) ASSAY-BASED DEVICE AND A PROCESS

(71) Oregon House Pty Ltd
(21) 2024902209 (22) 17.07.2024
(54) A wheel-track renovator

(71) Pablow API PTY LTD
(21) 2024902268 (22) 21.07.2024
(54) Micro-conflict Resolution Application

(71) Palmer, J.
(21) 2024902276 (22) 22.07.2024
(54) Passive Warm Water Saver

(71) Phillips Moore, G.
(21) 2024902250 (22) 19.07.2024
(54) Mechanical Assembly

(71) Power, R.
(21) 2024902224 (22) 17.07.2024
(54) Quickbrick rapid panel

(71) PWR IP Pty Ltd
(21) 2024902214 (22) 17.07.2024
(54) A METHOD OF MANUFACTURING AN ARTICLE

(71) PYC Therapeutics Limited
(21) 2024902223 (22) 17.07.2024
(54) Improved compositions and methods for treatment of monogenic neurodevelopmental disorders 7

Ralph, G.L.T. see Aarons, J.
(21) 2024902287

(71) Reisner, J.
(21) 2024902278 (22) 22.07.2024
(54) A New Method of Sales and Marketing

(71) Rose, M.
(21) 2024902272 (22) 22.07.2024
(54) Mobi Hoop

(71) Saad, D.
(21) 2024902284 (22) 23.07.2024
(54) Edible drinking straw composition

Provisional Applications Filed - Name Index cont'd

(71) Second Peg Pty Ltd
(21) 2024902245 (22) 18.07.2024
(54) Fin Fastening System

(71) SENSE2 PTY LTD
(21) 2024902221 (22) 17.07.2024
(54) Advanced Boron-Doped Diamond Structures for High-Performance Semiconductor and Electronic Applications

(71) SENSE2 PTY LTD
(21) 2024902238 (22) 18.07.2024
(54) Advanced Boron-Doped Diamond Structures for High-Performance Semiconductor and Electronic Applications

(71) SENSE2 PTY LTD
(21) 2024902244 (22) 18.07.2024
(54) Advanced Boron-Doped Diamond Structures for High-Performance Semiconductor and Electronic Applications

(71) SENSE2 PTY LTD
(21) 2024902246 (22) 18.07.2024
(54) Advanced Boron-Doped Diamond Structures for High-Performance Semiconductor and Electronic Applications

(71) SENSE2 PTY LTD
(21) 2024902247 (22) 19.07.2024
(54) Advanced Boron-Doped Diamond Structures for High-Performance Semiconductor and Electronic Applications

(71) SENSE2 PTY LTD
(21) 2024902263 (22) 20.07.2024
(54) Advanced Boron-Doped Diamond Structures for High-Performance Semiconductor and Electronic Applications

(71) SENSE2 PTY LTD
(21) 2024902264 (22) 20.07.2024
(54) Advanced Boron-Doped Diamond Structures for High-Performance Semiconductor and Electronic Applications

(71) Sharp Initiatives Pty Ltd
(21) 2024902266 (22) 21.07.2024
(54) Supplement to methodology for transporting residential steel structured modular units that would otherwise be greater than the width allowable to be carried on roads or other modes of transport.

(71) Shulman, J.
(21) 2024902241 (22) 18.07.2024
(54) SEGMENTED SINGLE RECORD RETRIEVAL (SSRR) DATABASE ARCHITECTURE TO PREVENT MASS DATA LOSS

(71) Smaragdis, P.
(21) 2024902240 (22) 18.07.2024
(54) Data heat pump and system

(71) Sokolovic, F.
(21) 2024902234 (22) 18.07.2024
(54) SYSTEM AND METHOD OF SETTING AN ALARM OF A WIRELESS DEVICE

(71) STRESSLESS IP PTY LTD
(21) 2024902291 (22) 23.07.2024
(54) A LIVESTOCK LOADING RAMP AND LIVESTOCK BARRIER ASSEMBLY

Tan, J. see Margi, J.
(21) 2024902261

(71) THE RENEWABLE GROUP PTY. LTD.
(21) 2024902231 (22) 18.07.2024
(54) UNIVERSAL FENCING SYSTEM IMPROVED BS

(71) THE RENEWABLE GROUP PTY. LTD.
(21) 2024902233 (22) 18.07.2024
(54) PERIMETER DEFENSIVE SYSTEM BS

(71) The Trustee for The Systems Challenger Unit Trust
(21) 2024902262 (22) 20.07.2024
(54) ONLINE SPORTING ARENA

(71) The University of Sydney
(21) 2024902255 (22) 19.07.2024
(54) Dental training system and method

(71) Tournicare Pty Ltd
(21) 2024902248 (22) 19.07.2024
(54) Clamping devices and methods for repeated measurement of changes in blood pressure

(71) Tractive Motion Technologies Pty Ltd
(21) 2024902220 (22) 17.07.2024
(54) Decoiler assembly

(71) Tractive Motion Technologies Pty Ltd
(21) 2024902222 (22) 17.07.2024
(54) Decoiler assembly

(71) Trochlear Pty Ltd
(21) 2024902269 (22) 22.07.2024
(54) Surgical System

(71) Vellani, Z.
(21) 2024902225 (22) 17.07.2024
(54) Infant Development Support System

(71) Vucic, P.
(21) 2024902280 (22) 22.07.2024
(54) Trigger and Push Rod Fastening Mechanism for Toilet Seats

(71) Watts Water Equipment Manufacturing (Ningbo) Co., Ltd.
(21) 2024902227 (22) 18.07.2024
(54) Strainer having Screen with Magnetic Rings

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2024902218	Advanced Agricultural Systems Pty Ltd	2024902286	Golias, M.E.
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2024902228	Cummins, I.G.		
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2024902234	Sokolovic, F.		
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2024902238	SENSE2 PTY LTD		
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2024902242	Fastbrick IP Pty Ltd		
2024902243	Future Battery Industries CRC Ltd		
2024902244	SENSE2 PTY LTD		
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2024902256	Illinois Tool Works Inc.		
2024902257	Madad Pty Ltd		
2024902258	Cutting Edges Equipment Parts Pty Ltd		
2024902259	Glencore Technology Pty Limited		
2024902260	Bucher Municipal Pty Ltd		
2024902261	Margi, J.; Tan, J.		
2024902262	The Trustee for The Systems Chall-Enger Unit Trust		
2024902263	SENSE2 PTY LTD		
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2024902265	Jonlo Engineering Pty Ltd		
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2024902268	Pablow API PTY LTD		
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2024902270	Carden, B.		
2024902271	ONCOREVIVE HOLDINGS PTY LTD		
2024902272	Rose, M.		

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Applications listed below were processed through the Patent Office Canberra during the period ending 16 Jul 2024 .

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

A.L.M Holding Company see Ergon Asphalt & Emulsions, Inc.
(21) 2024205012

(71) Angel Group Co., Ltd.
(21) 2024205009 **(22)** 22.07.2024
(54) FRAUD DETECTION SYSTEM IN CASINO

(71) CAAMTECH, INC.
(21) 2024204922 **(22)** 17.07.2024
(54) Quaternary tryptamines and their therapeutic uses

AbbVie Deutschland GmbH & Co. KG see AbbVie Inc.
(21) 2024205014

(71) Apple Inc.
(21) 2024204961 **(22)** 18.07.2024
(54) Method, device and medium for ranging

(71) Cantor Index LLC
(21) 2024205032 **(22)** 23.07.2024
(54) SYSTEM AND METHOD FOR CONDUCTING A JACKPOT RACE EVENT

(71) AbbVie Inc.
(21) 2024205004 **(22)** 20.07.2024
(54) Anti-EGFR antibody drug conjugates

(71) AstraZeneca AB
(21) 2024204913 **(22)** 17.07.2024
(54) COMBINATION OF ZIBOTENTAN AND DAPAGLIFLOZIN FOR THE TREATMENT OF CHRONIC KIDNEY DISEASE

(71) Canva Pty Ltd
(21) 2024204885 **(22)** 16.07.2024
(54) Processing of images with text

(71) AbbVie Inc.; AbbVie Deutschland GmbH & Co. KG
(21) 2024205014 **(22)** 22.07.2024

(71) Bambino Prezioso Switzerland AG
(21) 2024204937 **(22)** 18.07.2024
(54) Angle adjustment structure and child carrier

(71) Canva Pty Ltd
(21) 2024205023 **(22)** 22.07.2024
(54) Systems and methods for generating a design

(54) Anti-repulsive guidance molecule a (RGMa) antagonistic antibodies for treating spinal cord injury and pain

(71) Acerta Pharma B.V.
(21) 2024204906 **(22)** 17.07.2024
(54) ACALABRUTINIB MALEATE DOSAGE FORMS

(71) Becton, Dickinson and Company
(21) 2024204935 **(22)** 18.07.2024
(54) Capillary collector with rotatable connection

(71) Canva Pty Ltd
(21) 2024205035 **(22)** 23.07.2024
(54) Systems and methods for identifying objects in an image

(71) Alcon, Inc.; The Regents of the University of Colorado, a body corporate
(21) 2024204907 **(22)** 17.07.2024
(54) Intraocular lens designs for improved stability

(71) Big Dutchman International GmbH
(21) 2024204999 **(22)** 19.07.2024
(54) DEVICE AND METHOD FOR HANDLING POULTRY ANIMALS

(71) CATERPILLAR GLOBAL MINING EQUIPMENT LLC
(21) 2024204933 **(22)** 18.07.2024
(54) System and method for supporting elevated power rails

(71) Alexion Pharmaceuticals, Inc.
(21) 2024204884 **(22)** 16.07.2024
(54) ANTI-C5 ANTIBODIES HAVING IMPROVED PHARMACOKINETICS

(71) BioNTech SE
(21) 2024204890 **(22)** 16.07.2024
(54) DOSE DETERMINATION FOR IMMUNOTHERAPEUTIC AGENTS

(71) CATERPILLAR GLOBAL MINING EQUIPMENT LLC
(21) 2024204934 **(22)** 18.07.2024
(54) System and method for supporting elevated power rails

(71) Altor BioScience Corporation
(21) 2024204957 **(22)** 18.07.2024
(54) IL-15-based molecules and methods of use thereof

(71) Boston Scientific Scimed, Inc.
(21) 2024204940 **(22)** 18.07.2024
(54) Stone identification methods and systems

(71) CATERPILLAR INC.
(21) 2024204954 **(22)** 18.07.2024
(54) MOBILE EQUIPMENT OPTIMIZED FOR A SWAPPABLE BATTERY SOLUTION

(71) Amazentis SA
(21) 2024204908 **(22)** 17.07.2024
(54) Compositions and methods for improving mitochondrial function and treating neurodegenerative diseases and cognitive disorders

(71) Bradley, C.
(21) 2024204903 **(22)** 17.07.2024
(54) MASSIVELY MULTIPLEXED HOMOLOGOUS TEMPLATE REPAIR FOR WHOLE-GENOME REPLACEMENT

(71) CHO Pharma, Inc.
(21) 2024204980 **(22)** 19.07.2024
(54) Fucosidase mutants and the use thereof

(71) Amgen Inc.
(21) 2024205016 **(22)** 22.07.2024
(54) Crystalline antibody formulations

(71) BruMate, Inc.
(21) 2024205031 **(22)** 23.07.2024
(54) NO SPILL STRAW

(71) Chugai Seiyaku Kabushiki Kaisha; F. Hoffmann-La Roche AG
(21) 2024204924 **(22)** 17.07.2024

Complete Applications Filed - Name Index cont'd

(54) Methods of using a bispecific antibody that recognizes coagulation factor IX and/or activated coagulation factor IX and coagulation factor X and/or activated coagulation factor X

CommScope Connectivity Belgium BVBA see CommScope Technologies LLC
(21) 2024204894

CommScope Connectivity UK Limited see CommScope Technologies LLC
(21) 2024204894

(71) CommScope Technologies LLC;
CommScope Connectivity Belgium BVBA; CommScope Connectivity UK Limited
(21) 2024204894 (22) 17.07.2024
(54) Optical Network Converter Module

(71) Coogee Minerals Pty Ltd
(21) 2024204987 (22) 19.07.2024
(54) METHOD FOR PRODUCTION OF HYDROMAGNESITE

(71) CUTSFORTH, INC.
(21) 2024204942 (22) 18.07.2024
(54) Brush assembly

(71) Deciphera Pharmaceuticals, LLC
(21) 2024205010 (22) 22.07.2024
(54) CSF1R inhibitors for use in treating cancer

(71) Deere & Company
(21) 2024204896 (22) 17.07.2024
(54) Cotton stripper air duct system

(71) Deere & Company
(21) 2024204973 (22) 19.07.2024
(54) Verify implement receiver physical mounting location by using the machine and implement receiver actual reported locations

(71) Delta Panels Pty Ltd
(21) 2024204930 (22) 18.07.2024
(54) METHOD OF MANUFACTURE

(71) Digital Diagnostics Inc.
(21) 2024204949 (22) 18.07.2024
(54) Diagnosing skin conditions using machine-learned models

(71) Dolby International AB
(21) 2024205020 (22) 22.07.2024
(54) Model based prediction in a critically sampled filterbank

(71) Dow AgroSciences, LLC
(21) 2024204960 (22) 18.07.2024
(54) Compounds derived from herbicidal carboxylic acids and tetraalkylammonium or (arylalkyl) trialkylammonium hydroxides

(71) eggXYt Ltd
(21) 2024204892 (22) 16.07.2024
(54) METHODS FOR GENDER DETERMINATION OF AVIAN EMBRYOS IN UNHATCHED EGGS AND MEANS THEREOF

(71) Elevation Spine, Inc.
(21) 2024205027 (22) 22.07.2024
(54) Interbody spacer and bone plate assembly, instrumentation, and methods

(71) Ergon Asphalt & Emulsions, Inc.; A.L.M Holding Company
(21) 2024205012 (22) 22.07.2024
(54) ASPHALT EMULSION SURFACE TREATMENT CONTAINING STEROL

(71) ExoAnalytic Solutions, Inc.
(21) 2024204956 (22) 18.07.2024
(54) Systems and visualization interfaces for orbital paths and path parameters of space objects

(71) F. & J. Attard & Sons Pty. Limited
(21) 2024204910 (22) 17.07.2024
(54) TRUCK CURTAIN AND CURTAIN SYSTEM

F. Hoffmann-La Roche AG see Chugai Seiyaku Kabushiki Kaisha
(21) 2024204924

(71) FAMETEC GmbH
(21) 2024204981 (22) 19.07.2024
(54) Furnace system for growing crystals

(71) Fasteners for Retail, Inc.
(21) 2024204918 (22) 17.07.2024
(54) PULL-OUT TRAY FOR SHELVING

(71) Filtrex Global Ltd
(21) 2024204938 (22) 18.07.2024
(54) Remote monitoring of an air filter

(71) Fred Hutchinson Cancer Center
(21) 2024204905 (22) 17.07.2024
(54) Combination therapies for treatment of BCMA-related cancers and autoimmune disorders

(71) FUJIFILM Irvine Scientific, Inc.
(21) 2024205036 (22) 23.07.2024
(54) Automated method and apparatus for preparing bioprocess solutions

(71) GENENTECH, INC.
(21) 2024204988 (22) 19.07.2024
(54) Combinations of an anti-HER2 antibody-drug conjugate and chemotherapeutic agents, and methods of use

(71) Genovie AB
(21) 2024205017 (22) 22.07.2024
(54) An engineered multi-component system for identification and characterisation of T-cell receptors and T-cell antigens

(71) GIGA-BYTE TECHNOLOGY CO., LTD.
(21) 2024205019 (22) 22.07.2024
(54) DISPLAY DEVICE AND FLEXIBLE FRAME

(71) Gilead Sciences, Inc.
(21) 2024204902 (22) 17.07.2024
(54) Cot modulators and methods of use thereof

(71) GOOGLE LLC
(21) 2024204939 (22) 18.07.2024
(54) OVERLAP JOINT FLEX CIRCUIT BOARD INTERCONNECTION

(71) Grip Holdings LLC
(21) 2024204899 (22) 17.07.2024
(54) Anti-Slippage Fastener

(71) Guangzhou Medical University
(21) 2024204967 (22) 18.07.2024
(54) APPLICATION OF TETRAHYDROQUINOLONE-AMIDE-THIAZOLE COMPOUNDS

(71) GW Research Limited
(21) 2024204928 (22) 18.07.2024
(54) Use of cannabidiols in the treatment of epilepsy

(71) Heineken Supply Chain B.V.
(21) 2024204929 (22) 18.07.2024
(54) Beverage dispensing assembly and beverage container

(71) H L Group Engineering Pty Ltd
(21) 2024204965 (22) 18.07.2024
(54) Support system for supporting a balustrade or fence panel

(71) Hollister Incorporated
(21) 2024204895 (22) 17.07.2024

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(54) Package for medical device for ergonomic device removal	(54) Roof Recovery	(54) Drilling rig and components
(71) HONEYWELL INTERNATIONAL INC. (21) 2024204923 (22) 17.07.2024 (54) Apparatuses, computer-implemented methods, and computer program products for monitoring audio protector fit	(71) Keystone Tower Systems, Inc. (21) 2024205018 (22) 22.07.2024 (54) TUBULAR STRUCTURE REINFORCEMENT	(71) Mayborn (UK) Limited (21) 2024204921 (22) 17.07.2024 (54) BOTTLE ASSEMBLY AND VALVE ASSEMBLY
(71) Igin Smart Hygiene Ltd (21) 2024204901 (22) 17.07.2024 (54) Apparatus for Putting a Glove on a Palm Hand	Kim, Y. see Wang, Y. (21) 2024204986	(71) Maytronics Ltd. (21) 2024204974 (22) 19.07.2024 (54) Navigation of dynamic pool equipment
(71) Ikaika Therapeutics, LLC (21) 2024204925 (22) 17.07.2024 (54) Mitigating tissue damage and fibrosis via latent transforming growth factor beta binding protein (LTBP4)	(71) KWS SAAT SE & Co. KGaA (21) 2024204941 (22) 18.07.2024 (54) Methods for improving genome engineering and regeneration in plant II	(71) Muddie's Holdings Pty Ltd (21) 2024204968 (22) 18.07.2024 (54) Segment for a crushing and sizing drum
(71) Illumina, Inc. (21) 2024204952 (22) 18.07.2024 (54) Analysis system for orthogonal access to and tagging of biomolecules in cellular compartments	(71) Kyle, K. (21) 2024204927 (22) 18.07.2024 (54) Shoe device with dual stadium arch bimodal structure for rapid entry and release	(71) Multiturn Pty Ltd (21) 2024205037 (22) 23.07.2024 (54) Improved single turn screw pile
(71) Imperative Execution Inc. (21) 2024204994 (22) 19.07.2024 (54) Systems and methods for optimizing trade execution	(71) LG Electronics Inc. (21) 2024204950 (22) 18.07.2024 (54) INTRA BLOCK CODING-BASED VIDEO OR IMAGE CODING	(71) Naturex SA (21) 2024204984 (22) 19.07.2024 (54) FOOD STABILISING COMPOSITION COMPRISING PLANT-DERIVED INHIBITORS OF FATTY ACID OXIDATION
(71) Impossible Foods Inc. (21) 2024205000 (22) 19.07.2024 (54) Methods and compositions for affecting the flavor and aroma profile of consumables	(71) LG Electronics Inc. (21) 2024204985 (22) 19.07.2024 (54) DOORS FOR HOME APPLIANCE AND HOME APPLIANCE INCLUDING SAME	(71) Nearmap US, Inc. (21) 2024205033 (22) 23.07.2024 (54) Image analysis systems and methods for determining building roof age
(71) Incyte Corporation (21) 2024204891 (22) 16.07.2024 (54) JAK1 PATHWAY INHIBITORS FOR THE TREATMENT OF CYTOKINE-RELATED DISORDERS	(71) LifeCell Corporation (21) 2024205015 (22) 22.07.2024 (54) Flowable acellular tissue matrix products and methods of production	(71) Novo Nordisk A/S (21) 2024204972 (22) 19.07.2024 (54) Stable semaglutide compositions and uses thereof
(71) InfraBuild Australia Pty Ltd (21) 2024205024 (22) 22.07.2024 (54) STEEL BAR	(71) Lindsay Transportation Solutions, LLC (21) 2024204989 (22) 19.07.2024 (54) ROADWAY BARRIER BICYCLE SAFETY APPARATUS	(71) Novozymes A/S (21) 2024204919 (22) 17.07.2024 (54) Polypeptides having lysozyme activity, polynucleotides encoding same and uses and compositions thereof
(71) Janssen Biotech, Inc. (21) 2024205021 (22) 22.07.2024 (54) Anti- GPRC5D antibodies, bispecific antigen binding molecules that bind GPRC5D and CD3, and uses thereof	(71) LivePerson, Inc. (21) 2024204915 (22) 17.07.2024 (54) Systems and methods for intent response solicitation and processing	(71) NOWWWW.US PTY LTD (21) 2024205006 (22) 20.07.2024 (54) A METHOD FOR DISGUIISING A COMPUTER SYSTEM'S LOGIN INTERFACE
(71) Jhunjhunwala, S. (21) 2024204966 (22) 18.07.2024 (54) A mattress cover	(71) LuxCreo (Beijing) Inc. (21) 2024204916 (22) 17.07.2024 (54) Additive manufacturing apparatus and method	(71) Nu Flow Technologies 2000 Inc. (21) 2024204912 (22) 17.07.2024 (54) Liner assembly for pipelines and related method
(71) john ross, t.; ross, s. (21) 2024205005 (22) 20.07.2024	(71) MacDon Industries Ltd (21) 2024204911 (22) 17.07.2024 (54) SKID SHOE FOR AN AGRICULTURAL HEADER	(71) Nu Flow Technologies 2000 Inc. (21) 2024204920 (22) 17.07.2024 (54) Liner assembly for pipelines and related method
	(71) Maspro Engineering Trading Pty Ltd (21) 2024204945 (22) 18.07.2024	

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(71) Oliver, J.
(21) 2024204914 (22) 16.07.2024
(54) OLIVER - Motion Power Generator

(71) Palairat, T.
(21) 2024204992 (22) 19.07.2024
(54) Golf tee

(71) QTEQ IQ Pty Ltd
(21) 2024204898 (22) 17.07.2024
(54) Improved systems, methods and apparatus for downhole monitoring of production conditions using EM telemetry

(71) Regeneron Pharmaceuticals, Inc.
(21) 2024204962 (22) 18.07.2024
(54) Methods for enhancing efficacy of a vaccine by administering an IL-4R antagonist

(71) Regeneron Pharmaceuticals, Inc.
(21) 2024205038 (22) 23.07.2024
(54) METHODS OF REDUCING PARTICLE FORMATION AND COMPOSITIONS FORMED THEREBY

(71) Relborgn Pty Ltd; Triomviri Pty Ltd
(21) 2024204944 (22) 18.07.2024
(54) Method, Apparatus and Composition for Sealing of Surfaces

(71) ResMed Sensor Technologies Limited
(21) 2024204900 (22) 17.07.2024
(54) METHOD AND APPARATUS FOR DETERMINING POTENTIAL ONSET OF AN ACUTE MEDICAL CONDITION

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

(71) Runweight Pty Ltd
(21) 2024204943 (22) 18.07.2024
(54) A system for real time determination of parameters of an aircraft

(71) Sany Renewable Energy Co., Ltd.
(21) 2024204926 (22) 17.07.2024
(54) BLADE TAIL EDGE STRUCTURE, WIND TURBINE BLADE, AND WIND TURBINE GENERATOR SYSTEM

(71) SAP SE
(21) 2024205026 (22) 22.07.2024
(54) Multi-version concurrency control (MVCC) in non-volatile memory

(71) Seminis Vegetable Seeds, Inc.
(21) 2024204982 (22) 19.07.2024
(54) Spinach hybrid SVVB2740 and parents thereof

(71) Seminis Vegetable Seeds, Inc.
(21) 2024204993 (22) 19.07.2024
(54) Spinach hybrid SVVB2725

(71) Seminis Vegetable Seeds, Inc.
(21) 2024204998 (22) 19.07.2024
(54) Spinach hybrid SVVB2741

(71) SENSE2 PTY LTD
(21) 2024205007 (22) 20.07.2024
(54) Advanced Boron-Doped Diamond Structures for High-Performance Semiconductor and Electronic Applications

(71) SHAHEEN INNOVATIONS HOLDING LIMITED
(21) 2024204936 (22) 18.07.2024
(54) A nicotine delivery device

(71) SHIH, C.
(21) 2024204946 (22) 18.07.2024
(54) Anti-pinch electric linear actuator

(71) SK Innovation Co., Ltd.
(21) 2024204970 (22) 19.07.2024
(54) SYSTEM FOR DECOMPOSING AMMONIA AND METHOD OF DECOMPOSING AMMONIA

(71) SK Innovation Co., Ltd.
(21) 2024204971 (22) 19.07.2024
(54) APPARATUS FOR CONTROLLING VEHICLE EQUIPPED WITH AMMONIA FUEL CELL AND METHOD FOR OPERATING THE SAME

(71) SK Innovation Co., Ltd.
(21) 2024204975 (22) 19.07.2024
(54) HYDROGEN CRACKING APPARATUS, HYDROGEN CRACKING METHOD USING THE SAME AND ENERGY GENERATION SYSTEM

(71) SK Innovation Co., Ltd.
(21) 2024204976 (22) 19.07.2024
(54) SYSTEM FOR CONTROLLING AMMONIA REACTOR AND METHOD OF GENERATING HYDROGEN

(71) SK Innovation Co., Ltd.
(21) 2024204990 (22) 19.07.2024
(54) ADSORPTION TOWER FOR CONTROLLING A FLUID SUPPLY ROUTE TO A PLURALITY OF BEDS AND OPERATING CONTROL METHOD THEREOF

(71) SK Innovation Co., Ltd.
(21) 2024204991 (22) 19.07.2024

(54) AMMONIA ADSORPTION TOWER OPERATING CONTROL DEVICE AND CONTROL METHOD USING THE SAME

(71) Smart Shade Innovations Inc.
(21) 2024204948 (22) 18.07.2024
(54) Roller shade assembly

(71) SMC Technologies Pty Ltd
(21) 2024205034 (22) 23.07.2024
(54) Air brake dash valve lockout

Smith, L. see Smith, B.
(21) 2024204955

(71) Smith, B.; Smith, L.
(21) 2024204955 (22) 18.07.2024
(54) Child drink device lid transition to open cup

(71) Snap-on Incorporated
(21) 2024204931 (22) 18.07.2024
(54) Handle support module

Solymosi, G. see Wang, Y.
(21) 2024204986

(71) Sterlite Technologies Limited
(21) 2024204889 (22) 16.07.2024
(54) TOOL TO REMOVE DUST CAP OF FIBER CONNECTOR

(71) Sungrow Power Supply Co., Ltd.
(21) 2024205003 (22) 19.07.2024
(54) Microgrid inverter, microgrid system, and method for controlling microgrid inverter

(71) Takeda Pharmaceutical Company Limited
(21) 2024204995 (22) 19.07.2024
(54) A METHOD TO PRODUCE AN IMMUNOGLOBULIN PREPARATION WITH IMPROVED YIELD

(71) Technische Universität München
(21) 2024204996 (22) 19.07.2024
(54) METHANATION WITH TURBOCHARGER

(71) Technological Resources Pty. Limited
(21) 2024204963 (22) 18.07.2024
(54) Mining System

(71) Ted Golf Equipment Co., Ltd
(21) 2024204997 (22) 19.07.2024
(54) WHEEL BUILT-IN POWER SYSTEM FOR ELECTRIC GOLF BAG TROLLEY

Complete Applications Filed - Name Index cont'd

(71) Tencent America LLC
 (21) 2024204951 (22) 18.07.2024
 (54) METHOD AND DEVICE FOR CODING VIDEO SEQUENCE

(71) Tencent America LLC
 (21) 2024204958 (22) 18.07.2024
 (54) METHOD AND DEVICE FOR VIDEO CODING

(71) Tencent America LLC
 (21) 2024204959 (22) 18.07.2024
 (54) METHOD AND DEVICE FOR VIDEO CODING

(71) The Coca-Cola Company
 (21) 2024204978 (22) 19.07.2024
 (54) Sweetness and taste improvement of steviol glycoside and mogroside sweeteners with cyclamate

(71) The Regents of the University of California
 (21) 2024204947 (22) 18.07.2024
 (54) Methods and compositions for treatment of angiogenic disorders using anti-VEGF agents

The Regents of the University of Colorado, a body corporate see Alcon, Inc.
 (21) 2024204907

(71) The Scripps Research Institute
 (21) 2024204977 (22) 19.07.2024
 (54) Pharmacophore for trail induction

(71) The Tru Shrimp Company
 (21) 2024204983 (22) 19.07.2024
 (54) RACEWAYS AND SYSTEMS THEREOF

(71) Trina Solar Co., Ltd.
 (21) 2024204909 (22) 17.07.2024
 (54) Solar cell and manufacturing method therefor, and photovoltaic module

Triomviri Pty Ltd see Relborgn Pty Ltd
 (21) 2024204944

(71) ULMA Packaging, S.Coop.
 (21) 2024204897 (22) 17.07.2024
 (54) Packaging machine

(71) Universal Field Robots Pty Ltd.
 (21) 2024205011 (22) 22.07.2024
 (54) Automated vehicle

(71) Virentia Innovation Inc.
 (21) 2024205025 (22) 22.07.2024
 (54) COMPOSITIONS COMPRISING FABACEAE FAMILY PLANT COMPONENTS, PROCESSES OF PREPARATION AND USES THEREOF

(71) Volvo Autonomous Solutions AB
 (21) 2024204932 (22) 18.07.2024
 (54) System and method for handling bandwidth of a wireless communication link for a vehicle

(71) W.M. Barr & Company, Inc.
 (21) 2024205002 (22) 19.07.2024
 (54) Spill resistant and moisture absorbing device

(71) Wagstaff Food Services Pty Ltd
 (21) 2024205030 (22) 22.07.2024
 (54) KNOCKING BOX

(71) Wang, Y.; Solymosi, G.; Kim, Y.
 (21) 2024204986 (22) 19.07.2024
 (54) System and method for evaluating models for predictive failure of renewable energy assets

(71) WAVE LIFE SCIENCES LTD.
 (21) 2024204904 (22) 17.07.2024
 (54) Technologies for oligonucleotide preparation

(71) Willow Innovations, Inc.
 (21) 2024204917 (22) 17.07.2024
 (54) Breast pump assembly and methods

(71) Wonderland Switzerland AG
 (21) 2024204953 (22) 18.07.2024
 (54) FOLDABLE LOCKING MECHANISM

(71) Wonderland Switzerland AG
 (21) 2024205013 (22) 22.07.2024
 (54) Child Restraint with Rotating Seat

(71) Yates, S.
 (21) 2024205008 (22) 21.07.2024
 (54) Plumbing Equipment

(71) Yodlee, Inc.
 (21) 2024205001 (22) 19.07.2024
 (54) Predicting recurrence from financial data

(71) Yuyao Linsheng Electrical Appliance Co., Ltd
 (21) 2024204969 (22) 18.07.2024
 (54) SOCKET WITH WATERPROOF STRUCTURE

(71) Zhejiang Hongli (A/List) Tools Co.#Ltd.
 (21) 2024205028 (22) 22.07.2024
 (54) Top-Driven Jack

(71) Zhejiang Hongli (A/List) Tools Co.#Ltd.
 (21) 2024205029 (22) 22.07.2024
 (54) Height Quickly-Adjustable Jack

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2024204930	Delta Panels Pty Ltd	2024204996	Technische Universität München
2024204931	Snap-on Incorporated	2024204997	Ted Golf Equipment Co., Ltd
2024204932	Volvo Autonomous Solutions AB	2024204998	Seminis Vegetable Seeds, Inc.
2024204933	CATERPILLAR GLOBAL MINING EQUIPMENT LLC	2024204999	Big Dutchman International GmbH
2024204934	CATERPILLAR GLOBAL MINING EQUIPMENT LLC	2024205000	Impossible Foods Inc.
2024204935	Becton, Dickinson and Company	2024205001	Yodlee, Inc.
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2024204937	Bambino Prezioso Switzerland AG	2024205003	Sungrow Power Supply Co., Ltd.
2024204938	Filtrex Global Ltd	2024205004	AbbVie Inc.
2024204939	GOOGLE LLC	2024205005	john ross, t.; ross, s.
2024204940	Boston Scientific Scimed, Inc.	2024205006	NOWWWW.US PTY LTD
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2024204945	Maspro Engineering Trading Pty Ltd	2024205011	Universal Field Robots Pty Ltd.
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2024204948	Smart Shade Innovations Inc.	2024205014	AbbVie Inc.; AbbVie Deutschland GmbH & Co. KG
2024204949	Digital Diagnostics Inc.	2024205015	LifeCell Corporation
2024204950	LG Electronics Inc.	2024205016	Amgen Inc.
2024204951	Tencent America LLC	2024205017	Genovie AB
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		2024205019	GIGA-BYTE TECHNOLOGY CO., LTD.
		2024205020	Dolby International AB

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2024205021	Janssen Biotech, Inc.
2024205023	Canva Pty Ltd
2024205024	InfraBuild Australia Pty Ltd
2024205025	Virentia Innovation Inc.
2024205026	SAP SE
2024205027	Elevation Spine, Inc.
2024205028	Zhejiang Hongli (A/List) Tools Co.#Ltd.
2024205029	Zhejiang Hongli (A/List) Tools Co.#Ltd.
2024205030	Wagstaff Food Services Pty Ltd
2024205031	BruMate, Inc.
2024205032	Cantor Index LLC
2024205033	Nearmap US, Inc.
2024205034	SMC Technologies Pty Ltd
2024205035	Canva Pty Ltd
2024205036	FUJIFILM Irvine Scientific, Inc.
2024205037	Multiturn Pty Ltd
2024205038	Regeneron Pharmaceuticals, Inc.

Innovation Patent Applications Filed**Name Index**

Applications listed below were processed through the Patent Office Canberra during the period ending 16 Jul 2024 .
(This list may contain multiple listings of a patent application where there are multiple applicants for that patent.)

(71) Adama Agan Ltd.
(21) 2024100023 **(22)** 19.07.2024
(54) Solid state form of Pyroxasulfone
(62) 2021207765

Numerical Index

2024100023 Adama Agan Ltd.

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)
- 20 Patent Ceased Section 143A(b)/Reg. 22.2D(2) or (4)
- 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
- D Applications which have been accepted or advertised accepted
- E Patents on which an examination has not been requested
- F Patents on which an examination has been requested or report issued
- G Patents Certified

- N Applications not Open to Public Inspection

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2017

2017346683 2seventy bio, Inc. The application has been assigned to **Regeneron Pharmaceuticals, Inc.**

2018

2018372185 Axerovision, Inc. The application has been assigned to **CS Pharmaceuticals Limited**

2018382585 Cabot, Jonathan The application has been assigned to **Knee Balancer IP Pty Ltd**

2019

2019216973 NanoString Technologies, Inc The application has been assigned to **Bruker Spatial Biology, Inc.**

2019253139 John Innes Centre; Commonwealth Scientific and Industrial Research Organisation; The University of Sydney The applica-

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tion has been assigned to **John Innes Centre; Commonwealth Scientific and Industrial Research Organisation**

2019268409 Respia Technologies Pty Ltd The application has been assigned to **ResMed Sensor Technologies Limited**

2019271028 NanoString Technologies, Inc. The application has been assigned to **Bruker Spatial Biology, Inc.**

2019275404 NanoString Technologies, Inc. The application has been assigned to **Bruker Spatial Biology, Inc.**

2019333339 Cabot, Jonathan The application has been assigned to **Knee Balancer IP Pty Ltd**

2019356573 Inhibrx, Inc. The application has been assigned to **INHIBRX BIOSCIENCES, INC.**

2019366449 Hofmekler, Ori The application has been assigned to **SweetScience, LLC**

2019406198 NanoString Technologies, Inc. The application has been assigned to **Bruker Spatial Biology, Inc.**

2020

2020235864 Cend Therapeutics, Inc. The application has been assigned to **Lisata Therapeutics, Inc.**

2020260550 Massey University The application has been assigned to **Hughes, Samantha**

2020288384 R.E.M. Holding S.r.l. The application has been assigned to **R.E.M. PATENTS S.r.l.**

2020311826 Cabot, Jonathan Peter The application has been assigned to **Knee Balancer IP Pty Ltd**

2020365118 NanoString Technologies, Inc. The application has been assigned to **Bruker Spatial Biology, Inc.**

2020411478 GPB Scientific, Inc. The application has been assigned to **Zeon Corporation**

2021

2021253407 Psomagen, Inc.; Macrogen Inc. The application has been assigned to **Macrogen Inc.**

2021293238 NanoString Technologies, Inc. The application has been assigned to **Bruker Spatial Biology, Inc.**

2021343471 NANOSTRING TECHNOLOGIES, INC. The application has been assigned to **Bruker Spatial Biology, Inc.**

2021359002 NANOSTRING TECHNOLOGIES, INC. The application has been assigned to **Bruker Spatial Biology, Inc.**

2021378325 GPB SCIENTIFIC, INC. The application has been assigned to **Zeon Corporation**

Assignments before Grant, Section 113

2021413868 BOUNCE, INC. The application has been assigned to **Bounce Enterprises LLC**

2022

2022209752 GPB SCIENTIFIC, INC. The application has been assigned to **Zeon Corporation**

2022212151 MEDSHINE DISCOVERY INC. The application has been assigned to **D3 Bio (Wuxi) Co., Ltd.**

2022221724 SPV APEX 1, INC. The application has been assigned to **WINDFALL BIO, INC.**

2022246473 Southern Eye Equipment Pty Ltd The application has been assigned to **Mount Spec Investments Pty Ltd**

2022341533 SIKA TECHNOLOGY AG The application has been assigned to **Construction Research & Technology GmbH**

2022360988 LINK IMMUNOTHERAPEUTICS, INC The application has been assigned to **Context Therapeutics Inc.**

2022378929 SIKA TECHNOLOGY AG The application has been assigned to **Construction Research & Technology GmbH**

2023

2023219998 MAXONIQ IP PTY LTD; METRO NORTH HOSPITAL AND HEALTH SERVICES The application has been assigned to **METRO NORTH HOSPITAL AND HEALTH SERVICES**

2023226700 NanoString Technologies, Inc. The application has been assigned to **Bruker Spatial Biology, Inc.**

2023226738 GPB Scientific, Inc. The application has been assigned to **Zeon Corporation**

2023278046 Nanostring Technologies, Inc. The application has been assigned to **Bruker Spatial Biology, Inc.**

2023902373 Denteric Pty Ltd; Oral Health Australia Pty Ltd The application has been assigned to **Denteric Pty Ltd**

2023902376 Denteric Pty Ltd; Oral Health Australia Pty Ltd The application has been assigned to **Denteric Pty Ltd**

2023902379 Denteric Pty Ltd; Oral Health Australia Pty Ltd The application has been assigned to **Denteric Pty Ltd**

2023902382 Denteric Pty Ltd; Oral Health Australia Pty Ltd The application has been assigned to **Denteric Pty Ltd**

2023903699 McNicoll, Campbell; O'Sullivan, Michael; de Castro, Isabela The application has been assigned to **GEO40 LIMITED**

2024

2024203428 TONIX PHARMACEUTICALS HOLDING CORP. The application has been assigned to **TONIX PHARMA LIMITED.**

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.

2019

2019363610 **The Regents of the University of California** An application to extend the time from 25 Oct 2023 to 25 May 2024 in which to pay a continuation fee has been filed . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

2022

2022201017 **Aqseptence Group, Inc** An application to extend the time from 26 Jul 2023 to 26 Apr 2024 in which to pay a continuation fee has been filed . Address for service - James & Wells Intellectual Property GPO Box 1301 CANBERRA ACT 2601 AU

2022221432 **Buffalo Filter LLC** An application to extend the time from 21 Nov 2023 to 21 Jul 2024 in which to pay a continuation fee has been filed . Address for service - Griffith Hack Level 15, 376-390 Collins Street Melbourne VIC 3000 AU

Applications Allowed - Section 223(2)**2009**

2009288329 **Timilon Technology Acquisitions LLC** The time in which to pay a renewal fee has been extended to 26 Apr 2024 . Address for service - Phillips Ormonde Fitzpatrick L 16 333 Collins St Melbourne VIC 3000 AU

2019

2019100652 **BIOSOFT (AUSTRALIA) PTY LTD** The time in which to pay a renewal fee has been extended to 17 Feb 2024 . Address for service - shaun kerrigan Level 3 74 McEvoy Street Alexandria NSW 2015 AU

2020

2020100513 **Zhu, W.** The time in which to pay a continuation fee has been extended to 02 Jan 2024 . Address for service - Blockchain Economy LLC Pty Ltd U 8 3 Cecil St Ashfield NSW 2131 AU

2020213266 **Universal Polymers Pty Ltd** The time in which to request examination has been extended to 07 Aug 2024 . Address for service - Collison & Co GPO Box 2556 Adelaide SA 5001 AU

2022

2022202322 **Gordon Sports, LLC** The time in which to pay the acceptance fee has been extended to 28 Jul 2024 . Address for service - Krouzer IP PO Box 2035 Como WA 6152 AU

2022218591 **Cardioguidance Biomedical, LLC** The time in which to pay a continuation fee has been extended to 22 Mar 2024 . Address for service - GLMR PO Box Q1615 Queen Victoria Building NSW 1230 AU

Section 223(1) Allowances**2015**

2015407253 **Dyno Nobel Asia Pacific Pty Ltd** The time in which to gain acceptance has been extended to 18 Aug 2024

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.

2017

2017359047 **Methods for cell label classification Becton, Dickinson and Company** The nature of the amendment is as shown in the statement(s) filed 16 Jul 2024 . Address for service - Pizzeys Patent and Trade Mark Attorneys Pty Ltd GPO Box 1374 Brisbane QLD 4001 AU

2018

2018354942 **Aqueous composition comprising a conductive polymer and use thereof ENI S.p.A.** The nature of the amendment is as shown in the statement(s) filed 28 Jun 2024 . Address for service - Phillips Ormonde Fitzpatrick PO Box 323 COLLINS STREET WEST VIC 8007 AU

2019

2019236275 **Method of aluminum-scandium alloy production FEA Materials LLC** The nature of the amendment is: Add inventor HUNT, Brian . Address for service - Pizzeys Patent and Trade Mark Attorneys Pty Ltd GPO Box 1374 Brisbane QLD 4001 AU

2019288752 **ECAP based control of electrical stimulation therapy Medtronic, Inc.** The nature of the amendment is as shown in the statement(s) filed 11 Jul 2024 . Address for service - FB Rice Pty Ltd L 23 44 Market St Sydney NSW 2000 AU

2019304103 **Separation of granular particles Gulf Conveyor Systems Pty Ltd** The nature of the amendment is as shown in the statement(s) filed 15 Jul 2024 . Address for service - Dennemeyer & Associates PO Box 363 KEW VIC 3101 AU

2020

2020213431 **A process for producing synthetic jet fuel Greenfield Global Inc.** The nature of the amendment is as shown in the statement(s) filed 10 Jul 2024 . Address for service - WRAYS PTY LTD L7 863 Hay St Perth WA 6000 AU

Amendments Made**2006**

2006276205 **Novartis AG** The nature of the amendment is as shown in the statement(s) filed 15 Mar 2024

2015

2015305770 **Merck Sharp & Dohme LLC** The nature of the amendment is as shown in the statement(s) filed 13 Feb 2024

Amendments

2017

2017367699 **Purdue Research Foundation** The nature of the amendment is: Amend the name of the inventor to read Low, Philip S.; Low, Stewart Andrew and Nielsen, Jeffery Jay Howard

2018

2018283155 **Wisconsin Alumni Research Foundation** The nature of the amendment is: Amend the invention title to read MODIFIED GUIDE RNAS, CRISPR-RIBONUCLEOPROTEIN COMPLEXES AND METHODS OF USE

2020

2020411793 **Electric Power Development Co., Ltd.** The nature of the amendment is: Amend the invention title to read Wind energy generation system

2020427793 **Nokia Technologies Oy** The nature of the amendment is as shown in the statement(s) filed 03 Apr 2024

2021

2021218224 **SolydEra Australia Pty Ltd** The nature of the amendment is as shown in the statement(s) filed 23 Apr 2024

2021236488 **illumina, Inc.** The nature of the amendment is: Amend the name of the inventor to read Gloeckner, Christian; Kia, Amirali; Bomati, Erin; He, Molly; Grunenwald, Haiying Li; Kuersten, Scott; Osothprarop, Trina Faye; Haskins, Darin; Burgess, Joshua; Khanna, Anupama; Schlingman, Daniel and Vaidyanathan, Ramesh

2021249161 **Daikin Industries, Ltd.** The nature of the amendment is: Amend the invention title to read REFRIGERATION CYCLE APPARATUS

2021303068 **Sumitomo Precision Products Co., Ltd.** The nature of the amendment is as shown in the statement(s) filed 08 Apr 2024

2021445458 **YOO, Y.H.; FAWOO NANOTECH CO. LTD.** The nature of the amendment is: Amend the invention title to read Pipe insert for generating nano-bubbles and nano-bubble generator comprising the same

2022

2022229350 **RESEARCH TRIANGLE INSTITUTE** The nature of the amendment is: Amend the invention title to read Arylsulfonamides as orexin receptor agonists

2022246412 **iOmniscient Pty Ltd** The nature of the amendment is as shown in the statement(s) filed 21 Jun 2024

2022275399 **Zoetis Services LLC** The nature of the amendment is: Amend the name of the inventor to read DOMINOWSKI, Paul Joseph; WILMES, Lauren; FOSS, Dennis L.; GALLO, Guillermo; HARDHAM, John Morgan; KREBS, Richard Lee; LIGHTLE, Sandra Ann Marie; MAHAN, Suman; MEDIRATTA, Sangita; MOHR, Kaori; MWANGI, Duncan; RAI, Sharath K.; SALMON, Sarah A.; VORA, Shaunak; FONTAINE, Michael Christopher; SMITH, David George Emslie; FITZPATRICK, Julie Lydia; DONACHIE, William; JAGLARZ, Anita Dorota; GAY, Cyril Gerard; RODRIGUEZ, Luis Leandro; KRUG, Peter William and RIEDER, Aida Elizabeth

Amendments

2022409512 **Icahn School of Medicine at Mount Sinai; The University of North Carolina at Chapel Hill; The Board of Trustees of the Leland Stanford Junior University; The Regents of the University of California** The nature of the amendment is: Amend the name of the inventor to read JAIN, Manish; SLOCUM, Samuel; SKINI-OTIS, Georgios; BARROS, Ximena; JIN, Jian; KANISKAN, H. Umit; SUN, Ning; SUN, Renhong; XIONG, Yan; SHEN, Yudao; XU, Zhongli; QIU, Xing; QIAN, Chao; SONG, Xiangyang; DENG, Zhijie; ROTH, Bryan; DIBERTO, Jeffrey; KIM, Kuglae; SUOMIVUORI, Carl-Mikael; DAEMGEN, Marc A.; DROR, Ron; SHOICHET, Brian and KAPLAN, Anat Levit

2022412618 **EYEBIOKOREA, INC.** The nature of the amendment is: Amend the name of the inventor to read CHO, Yunseok and AHN, Byul Nim

2022420084 **HOYA TECHNOSURGICAL CORPORATION** The nature of the amendment is: Amend the invention title to read Osteosynthesis member, osteosynthesis member set, and osteosynthesis implementation

2022429793 **SEQ BIOMARQUE, LLC.** The nature of the amendment is: Amend the name of the inventor to read BACUS, Sarah S. and HAMM, Christopher A.

2022430626 **HUAWEI TECHNOLOGIES CO., LTD.** The nature of the amendment is: Amend the invention title to read ENCODING CONFIGURATION METHOD AND APPARATUS

2022442457 **JFE STEEL CORPORATION** The nature of the amendment is: Amend the invention title to read METHOD OF REDUCING IRON ORE POWDER

2023

2023223720 **JFE STEEL CORPORATION** The nature of the amendment is: Amend the invention title to read STEEL PLATE AND METHOD OF PRODUCING SAME

2023226266 **JFE STEEL CORPORATION** The nature of the amendment is: Amend the invention title to read STEEL PLATE AND METHOD OF PRODUCING SAME

2023226269 **JFE STEEL CORPORATION** The nature of the amendment is: Amend the invention title to read STEEL PLATE AND METHOD OF PRODUCING SAME

2023285940 **Acciona Generación Renovable, S.A.; Fundación Circe-Centro de Investigación de Recursos y Consumos Energéticos** The nature of the amendment is: Amend the name of the inventor to read Antonio Miguel Muñoz Gómez; Javier Granado Fornás; Alejandro Diaz Baños; Joaquín Urretavizcaya Sanz; Miren Irune Etxegibel Campos and Silvia Lezaun Jaunsaras

2023313554 **LG ENERGY SOLUTION, LTD.** The nature of the amendment is: Amend the invention title to read Din-rail, and electronic component assembly and energy storage system including the same

2023327731 **LG ENERGY SOLUTION, LTD.** The nature of the amendment is: Amend the invention title to read BATTERY RACK AND ELECTRIC POWER STORAGE SYSTEM INCLUDING SAME

2023902317 **Children's Medical Research Institute; University of Sydney; The Westmead Institute for Medical Research; Western**

Amendments

Sydney Local Health District The nature of the amendment is to add the co- applicants University of Sydney; The Westmead Institute for Medical Research and Western Sydney Local Health District

2024

2024204844 **Air Products and Chemicals, Inc.** The nature of the amendment is: Amend the priority details to read 63/528,115 21 Jul 2023 US and 18/409,971 11 Jan 2024 US

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

2006

2006217963 Evolva S.A. The name of the patentee has been altered to **Danstar Ferment AG**

2009

2009288329 Timilon Technology Acquisitions LLC The name of the patentee has been altered to **Timilon Corporation**

2016

2016250128 Oberthur Technologies The name of the patentee has been altered to **IDEMIA France**

2018

2018282344 Oberthur Technologies The name of the patentee has been altered to **IDEMIA France**

2018323455 Altor Bioscience LLC The name of the patentee has been altered to **Altor Bioscience, LLC**

2020

2020202228 SCHOTT Flat Glass CR, s.r.o.; Schott AG The name of the applicant has been altered to **Schott AG; SCHOTT Termofrost s.r.o.**

2020202636 SCHOTT Flat Glass CR, s.r.o.; Schott AG The name of the applicant has been altered to **SCHOTT Termofrost s.r.o.; Schott AG**

2020268503 SCHOTT Flat Glass CR, s.r.o.; Schott AG The name of the applicant has been altered to **SCHOTT Termofrost s.r.o.; Schott AG**

2020289673 SCHOTT Flat Glass CR, s.r.o.; SCHOTT AG The name of the applicant has been altered to **SCHOTT Termofrost s.r.o.; SCHOTT AG**

2021

2021240312 ENVISION VR PTY LTD The name of the applicant has been altered to **ENVIZ CO PTY LTD**

2022

2022201758 Altor BioScience Corporation The name of the applicant has been altered to **Altor Bioscience, LLC**

2022275399 Zoetis Services LLC The name of the applicant has been altered to **Zoetis Services LLC; United States of America as represented by the Secretary of Agriculture**

Amendments

2022392233 EYETELLIGENCE LIMITED The name of the applicant has been altered to **Eyeteelligence PTY LTD**

2022409512 ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI; THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL; THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA; Manish JAIN; Samuel SLOCUM; Georgios SKINIOTIS; Ximena BARROS The name of the applicant has been altered to **Icahn School of Medicine at Mount Sinai; The University of North Carolina at Chapel Hill; The Board of Trustees of the Leland Stanford Junior University; The Regents of the University of California**

2022417524 THE KATHOLIEKE UNIVERSITEIT LEUVEN; SPRINGWORKS THERAPEUTICS INC.; VIB VZW The name of the applicant has been altered to **Katholieke Universiteit Leuven; SPRINGWORKS THERAPEUTICS INC.; VIB VZW**

2022419653 THE KATHOLIEKE UNIVERSITEIT LEUVEN; SPRINGWORKS THERAPEUTICS INC.; VIB VZW The name of the applicant has been altered to **Katholieke Universiteit Leuven; SPRINGWORKS THERAPEUTICS INC.; VIB VZW**

2022420025 THE KATHOLIEKE UNIVERSITEIT LEUVEN; SPRINGWORKS THERAPEUTICS INC.; VIB VZW The name of the applicant has been altered to **Katholieke Universiteit Leuven; SPRINGWORKS THERAPEUTICS INC.; VIB VZW**

2022420619 THE KATHOLIEKE UNIVERSITEIT LEUVEN; SPRINGWORKS THERAPEUTICS INC.; VIB VZW The name of the applicant has been altered to **Katholieke Universiteit Leuven; SPRINGWORKS THERAPEUTICS INC.; VIB VZW**

2022421248 THE KATHOLIEKE UNIVERSITEIT LEUVEN; SPRINGWORKS THERAPEUTICS INC.; VIB VZW The name of the applicant has been altered to **Katholieke Universiteit Leuven; SPRINGWORKS THERAPEUTICS INC.; VIB VZW**

2023

2023214467 THE KATHOLIEKE UNIVERSITEIT LEUVEN; SPRINGWORKS THERAPEUTICS INC.; VIB VZW The name of the applicant has been altered to **Katholieke Universiteit Leuven; SPRINGWORKS THERAPEUTICS INC.; VIB VZW**

2023225036 THE KATHOLIEKE UNIVERSITEIT LEUVEN; SPRINGWORKS THERAPEUTICS INC.; VIB VZW The name of the applicant has been altered to **Katholieke Universiteit Leuven; SPRINGWORKS THERAPEUTICS INC.; VIB VZW**

2023903727 Roger Thomas Mascull ; Elizabeth Jocelyn Mascull The name of the applicant has been altered to **Khan, A.; Mascull, G.; Svistunov, S.; Vitallyevich, V.**

2024

2024204957 Altor BioScience Corporation The name of the applicant has been altered to **Altor Bioscience, LLC**

2024901429 Slim Shade Pty Ltd The name of the applicant has been altered to **Swim Shady Pty Ltd**

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

Amendments

Australian Patent/Patent Application 2015305271 in the name(s) of Perfect Day, Inc.

Applications Open to Public Inspection

Name Index

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

<p>(71) Abbott Diabetes Care Inc. (11) AU-A-2024204775 (21) 2024204775 (22) 10.07.2024 (54) Application interface and display control in an analyte monitoring environment (51) Int. Cl. <i>G06F 21/30</i> (2013.01) (43) 01.08.2024 (62) 2022231687 (72) Berman, Glenn; Love, Michael R.; Crouther, Nathan; Sloan, Mark (74) FPA Patent Attorneys Pty Ltd</p>	<p>(71) Al21 Labs (11) AU-A-2024204869 (21) 2024204869 (22) 16.07.2024 (54) SYSTEMS AND METHODS OF CONTROLLABLE NATURAL LANGUAGE GENERATION (51) Int. Cl. <i>G06F 40/00</i> (2020.01) (43) 01.08.2024 (62) 2023241291 (72) PELEG, Barak; PADNOS, Dan; MORAG, Amnon; LUMBROSO, Gilad; SHOHAM, Yoav; GOSHEN, Ori; LENZ, Barak; DAGAN, Or (74) RnB IP Pty Ltd</p>	<p>(43) 01.08.2024 (62) 2020411515 (72) TRAINA, Christopher A.; KUTIKOV, Artem B.; YU, Xiaojie; HEE, Christopher K.; MESSINA, Darin J.; MORELL, Julie; DURIEUX, Florent; GUETTA, Olivier; ROCA MARTINEZ, Jean-Xavier (74) Davies Collison Cave Pty Ltd</p>
<p>(71) ABUS August Bremicker Söhne KG (11) AU-A-2024200027 (21) 2024200027 (22) 03.01.2024 (54) ELECTRONIC PADLOCK (51) Int. Cl. <i>E05B 67/00</i> (2006.01) <i>E05B 47/00</i> (2006.01) (31) 102023100671.1 (32) 12.01.23 (33) DE (43) 01.08.2024 (72) Weiershausen, Bernd (74) PHILLIPS ORMONDE FITZPATRICK</p>	<p>(71) Alcon, Inc.; The Regents of the University of Colorado, a body corporate (11) AU-A-2024204907 (21) 2024204907 (22) 17.07.2024 (54) Intraocular lens designs for improved stability (51) Int. Cl. <i>A61F 2/16</i> (2006.01) (43) 01.08.2024 (62) 2022203099 (72) KAHOOK, Malik, Y.; SUSSMAN, Glenn; ZACHER, Rudolph, F.; MCLEAN, Paul, J.; ATKINSON, Robert, E. (74) FB Rice Pty Ltd</p>	<p>(71) Amgen Research (Munich) GmbH (11) AU-A-2024203384 (21) 2024203384 (22) 21.05.2024 (54) Bispecific T Cell Engaging Antibody Constructs (51) Int. Cl. <i>C07K 16/28</i> (2006.01) <i>C07K 16/30</i> (2006.01) (43) 01.08.2024 (62) 2017214251 (72) Raum, Tobias; Muenz, Markus; Brozy, Johannes; Kufer, Peter; Hoffmann, Patrick; Friedrich, Matthias; Rattel, Benno; Bogner, Pamela; Wolf, Andreas; Pompe, Cornelius (74) WRAYS PTY LTD</p>
<p>(71) Acerta Pharma B.V. (11) AU-A-2024204906 (21) 2024204906 (22) 17.07.2024 (54) ACALABRUTINIB MALEATE DOSAGE FORMS (51) Int. Cl. <i>A61K 9/20</i> (2006.01) <i>A61K 9/16</i> (2006.01) <i>A61K 31/4985</i> (2006.01) <i>A61P 35/02</i> (2006.01) (43) 01.08.2024 (62) 2021291437 (72) Bethel, Paul; Blyth, John; Cosgrove, Steve; Golden, Michael; Mann, James; Pepin, Xavier Jacques Henri; Robbins, Andrew; Simpson, David (74) PHILLIPS ORMONDE FITZPATRICK</p>	<p>(71) Alcon Inc. (11) AU-A-2024204749 (21) 2024204749 (22) 10.07.2024 (54) MULTIPLE-INPUT-COUPLED ILLUMINATED MULTI-SPOT LASER PROBE (51) Int. Cl. <i>A61F 9/008</i> (2006.01) <i>A61B 18/20</i> (2006.01) (43) 01.08.2024 (62) 2018385649 (72) Smith, Ronald T.; Mirsepassi, Alireza; Farley, Mark Harrison; Bacher, Gerald David (74) PHILLIPS ORMONDE FITZPATRICK</p>	<p>(71) Amicus Therapeutics, Inc. (11) AU-A-2024204823 (21) 2024204823 (22) 12.07.2024 (54) METHODS OF TREATING FABRY PATIENTS HAVING RENAL IMPAIRMENT (51) Int. Cl. <i>A61K 31/445</i> (2006.01) <i>A61P 13/12</i> (2006.01) (43) 01.08.2024 (62) 2018277756 (72) Castelli, Jeff (74) Dark IP</p>
<p>(71) Adobe Inc. (11) AU-A-2023270212 (21) 2023270212 (22) 21.11.2023 (54) GENERATING IMAGES USING TRANSFER LEARNING (51) Int. Cl. <i>G06T 11/00</i> (2006.01) <i>G06N 3/02</i> (2006.01) <i>G06N 3/0475</i> (2023.01) <i>G06N 3/094</i> (2023.01) <i>G06N 3/096</i> (2023.01) <i>G06N 20/00</i> (2019.01) (31) 18/097,856 (32) 17.01.23 (33) US (43) 01.08.2024 (72) Puneet Mangla; Balaji Krishnamurthy (74) RnB IP Pty Ltd</p>	<p>(71) Allergan, Inc. (11) AU-A-2024204883 (21) 2024204883 (22) 16.07.2024 (54) Crosslinked HA-collagen hydrogels as dermal fillers (51) Int. Cl. <i>A61K 8/04</i> (2006.01) <i>A61K 8/44</i> (2006.01) <i>A61K 8/65</i> (2006.01) <i>A61K 8/73</i> (2006.01) <i>A61Q 19/08</i> (2006.01)</p>	<p>(71) Amsted Rail Company, Inc. (11) AU-A-2024204825 (21) 2024204825 (22) 12.07.2024 (54) AUTONOMOUS OPTIMIZATION OF INTRA-TRAIN COMMUNICATION NETWORK (51) Int. Cl. <i>B61L 27/57</i> (2022.01) <i>B61L 23/34</i> (2006.01) (43) 01.08.2024 (62) 2019255287 (72) MANSFIELD, Edward J. (74) Murray Trento & Associates Pty Ltd</p>
		<p>(71) Anbio Biotechnology Limited; WANG, J. (11) AU-A-2023200795 (21) 2023200795 (22) 13.02.2023 (54) BDNF QUANTITATIVE IMMUNOCHROMATOGRAPHIC TEST STRIP AND PREPARATION METHOD THEREOF</p>

Applications Open to Public Inspection - Name Index cont'd

(51) Int. Cl.
G01N 33/543 (2006.01)
G01N 21/64 (2006.01)
G01N 33/533 (2006.01)
G01N 33/558 (2006.01)
G01N 33/68 (2006.01)
(31) 18/098,193 **(32)** 18.01.23 **(33)** US
(43) 01.08.2024
(72) WANG, DAMING; WANG, JINCHENG
(74) MOHAN MURALI KODIVEL

(71) Anbio Biotechnology Limited; WANG, J.
(11) AU-A-2023200796
(21) 2023200796 **(22)** 13.02.2023
(54) NUCLEIC ACID DETECTION RE-AGENT AND DETECTION METHOD FOR MYCOBACTERIUM TUBERCULOSIS
(51) Int. Cl.
C12Q 1/6813 (2018.01)
C12Q 1/689 (2018.01)
(31) 18/098,196 **(32)** 18.01.23 **(33)** US
(43) 01.08.2024
(72) WANG, DAMING; WANG, JINCHENG
(74) MOHAN MURALI KODIVEL

(71) Angel Group Co., Ltd.
(11) AU-A-2024204793
(21) 2024204793 **(22)** 11.07.2024
(54) Playing card
(51) Int. Cl.
A63F 1/02 (2006.01)
A63F 1/14 (2006.01)
A63F 1/18 (2006.01)
(43) 01.08.2024
(62) 2022203394
(72) SHIGETA, Yasushi
(74) Davies Collison Cave Pty Ltd

(71) Angel Group Co., Ltd.
(11) AU-A-2024204812
(21) 2024204812 **(22)** 12.07.2024
(54) Chip measurement system
(51) Int. Cl.
G07F 17/32 (2006.01)
A63F 3/00 (2006.01)
(43) 01.08.2024
(62) 2022205270
(72) SHIGETA, Yasushi
(74) FB Rice Pty Ltd

(71) Angel Group Co., Ltd.
(11) AU-A-2024204819
(21) 2024204819 **(22)** 12.07.2024
(54) Game System
(51) Int. Cl.
G07F 17/32 (2006.01)
(43) 01.08.2024
(62) 2020267196
(72) Shigeta, Yasushi
(74) Davies Collison Cave Pty Ltd

(71) Angel Group Co., Ltd.
(11) AU-A-2024204886
(21) 2024204886 **(22)** 16.07.2024

(54) PACKING BOX FOR SHUFFLED PLAYING CARDS
(51) Int. Cl.
A63F 1/06 (2006.01)
(43) 01.08.2024
(62) 2024201496
(72) Shigeta, Yasushi
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) Aristocrat Technologies Australia Pty Limited
(11) AU-A-2024204828
(21) 2024204828 **(22)** 12.07.2024
(54) GAMING SYSTEM AD METHOD OF GAMING
(51) Int. Cl.
A63F 13/52 (2014.01)
A63F 13/26 (2014.01)
(43) 01.08.2024
(62) 2018223057
(72) MARKS, Daniel
(74) Griffith Hack

(71) AstraZeneca AB
(11) AU-A-2024204913
(21) 2024204913 **(22)** 17.07.2024
(54) COMBINATION OF ZIBOTENTAN AND DAPAGLIFLOZIN FOR THE TREATMENT OF CHRONIC KIDNEY DISEASE
(51) Int. Cl.
A61K 31/497 (2006.01)
A61K 31/70 (2006.01)
A61P 13/12 (2006.01)
(43) 01.08.2024
(62) 2021305983
(72) Greasley, Peter; Ahlström, Christine; Skrtic, Stanko; Menzies, Robert; Sunnåker, Mikael; Mercier, Anne-Kristina
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Aurea Software FZ-LLC
(11) AU-A-2024204827
(21) 2024204827 **(22)** 12.07.2024
(54) Extensible analytics and recommendation engine for network traffic data
(51) Int. Cl.
H04L 12/801 (2013.01)
H04L 12/24 (2006.01)
H04L 12/26 (2006.01)
(43) 01.08.2024
(62) 2022215255
(72) Veres, Greg; Loop, Sandra
(74) Davies Collison Cave Pty Ltd

(71) BASF SE
(11) AU-A-2024204866
(21) 2024204866 **(22)** 15.07.2024
(54) Herbicidal mixtures comprising L-glufosinate or its salt and at least one VLCFA inhibitor
(51) Int. Cl.
A01N 37/22 (2006.01)
A01N 37/20 (2006.01)
A01N 37/26 (2006.01)

A01N 39/02 (2006.01)
A01N 43/10 (2006.01)
A01N 43/56 (2006.01)
A01N 43/80 (2006.01)
A01N 43/82 (2006.01)
A01N 47/38 (2006.01)
A01N 57/20 (2006.01)
A01P 13/00 (2006.01)
(43) 01.08.2024
(62) 2018314562
(72) WINTER, Christian Harald; GEWEHR, Markus
(74) Griffith Hack

BASF SE see President and Fellows of Harvard College
(21) 2024204893

(71) Bayer Healthcare LLC
(11) AU-A-2024204755
(21) 2024204755 **(22)** 10.07.2024
(54) System, method, and computer program product for predictive maintenance
(51) Int. Cl.
G16H 40/40 (2018.01)
G05B 23/02 (2006.01)
G06Q 50/00 (2012.01)
G16H 20/17 (2018.01)
(43) 01.08.2024
(62) 2018317866
(72) SCHRIVER, Ralph; UBER III, Arthur; ARCHIBALD, Janele; BREWER, Matthew; CHAYA, Amy; FIORENTINI, Christopher; GRIFFITHS, David; HARTMANN, Jacob; HULBERT, Joseph; MICHEL, Susan; PETRILLI, Janel; POGOZELEC, Michael; SKIRBLE, Barry
(74) Davies Collison Cave Pty Ltd

(71) BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD.
(11) AU-A-2024204747
(21) 2024204747 **(22)** 10.07.2024
(54) A METHOD FOR VIDEO CODING
(51) Int. Cl.
H04N 19/70 (2014.01)
H04N 19/117 (2014.01)
H04N 19/119 (2014.01)
H04N 19/176 (2014.01)
(43) 01.08.2024
(62) 2022204998
(72) JHU, Hong-Jheng; XIU, Xiaoyu; CHEN, Yi-Wen; CHEN, Wei; KUO, Che-Wei; WANG, Xianglin; YU, Bing
(74) IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

(71) BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD.
(11) AU-A-2024204748
(21) 2024204748 **(22)** 10.07.2024
(54) A METHOD FOR VIDEO CODING
(51) Int. Cl.
H04N 19/70 (2014.01)
H04N 19/117 (2014.01)
H04N 19/119 (2014.01)

Applications Open to Public Inspection - Name Index cont'd

H04N 19/176 (2014.01)
(43) 01.08.2024
(62) 2022204998
(72) JHU, Hong-Jheng; XIU, Xiaoyu; CHEN, Yi-Wen; CHEN, Wei; KUO, Che-Wei; WANG, Xianglin; YU, Bing
(74) IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

(71) Blackhawk Network, Inc.
(11) AU-A-2024204826
(21) 2024204826 **(22)** 12.07.2024
(54) "System and method of registering stored-value cards into electronic wallets"
(51) Int. Cl.
G06Q 20/36 (2012.01)
(43) 01.08.2024
(62) 202221528
(72) CAMPOS, Tomas Ariel; VAISH, Tushar; AGONCILLO-ANDRES, Sheila; PONNAM, Rajesh
(74) Davies Collison Cave Pty Ltd

(71) Body Vision Medical Ltd.
(11) AU-A-2024204763
(21) 2024204763 **(22)** 10.07.2024
(54) METHODS AND SYSTEMS FOR USING MULTI VIEW POSE ESTIMATION
(51) Int. Cl.
A61B 5/00 (2006.01)
A61B 5/055 (2006.01)
A61B 5/06 (2006.01)
A61B 6/00 (2006.01)
A61B 6/02 (2006.01)
A61B 6/12 (2006.01)
A61B 34/20 (2016.01)
(43) 01.08.2024
(62) 2022201732
(72) Averbuch, Dorian; Amir, Eliron; Sezganov, Dima; Cohen, Eyal
(74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) Boston Scientific Scimed, Inc.
(11) AU-A-2024204751
(21) 2024204751 **(22)** 10.07.2024
(54) Powder for achieving hemostasis
(51) Int. Cl.
A61L 31/04 (2006.01)
A61K 31/722 (2006.01)
A61L 26/00 (2006.01)
A61L 31/16 (2006.01)
(43) 01.08.2024
(62) 2019207880
(72) FREDRICKSON, Gerald; SMITH, Amanda L.; PIC, Andrew; GERVASIO, Sophia; LYDECKER, Lauren
(74) Spruson & Ferguson

(71) Bradley, C.
(11) AU-A-2024204903
(21) 2024204903 **(22)** 17.07.2024
(54) MASSIVELY MULTIPLEXED HOMOLOGOUS TEMPLATE REPAIR FOR WHOLE-GENOME REPLACEMENT
(51) Int. Cl.

C12N 15/10 (2006.01)
C12Q 1/68 (2018.01)
G16B 30/00 (2019.01)
(43) 01.08.2024
(62) 2017362513
(72) Bradley, Christopher
(74) James & Wells Intellectual Property

(71) Bristol-Myers Squibb Company
(11) AU-A-2024204870
(21) 2024204870 **(22)** 16.07.2024
(54) STABLE FORMULATIONS OF FIBRONECTIN BASED SCAFFOLD DOMAIN PROTEINS THAT BIND TO MYOSTATIN
(51) Int. Cl.
A61K 9/08 (2006.01)
A61K 38/39 (2006.01)
A61K 47/18 (2017.01)
A61K 47/26 (2006.01)
A61P 21/00 (2006.01)
(43) 01.08.2024
(62) 2018261154
(72) Nashine, Vishal C.; Patel, Rushikesh K.
(74) AJ PARK

(71) Christopher Vandecar
(11) AU-A-2024203881
(21) 2024203881 **(22)** 07.06.2024
(54) Plant and animal extracts and related methods
(51) Int. Cl.
A01N 65/00 (2009.01)
(43) 01.08.2024
(62) 2022202818
(72) VANDECAR, Christopher
(74) FB Rice Pty Ltd

(71) CI Surfboards, LLC
(11) AU-A-2024200286
(21) 2024200286 **(22)** 16.01.2024
(54) Surfboard Leash
(51) Int. Cl.
B63B 32/73 (2020.01)
B63B 32/77 (2020.01)
(31) 63/439,484 **(32)** 17.01.23 **(33)** US
(43) 01.08.2024
(72) JANDA, Todd
(74) WRAYS PTY LTD

CNH Industrial America LLC see CNH Industrial Harbin Machinery Co., Ltd.
(21) 2024200334

(71) CNH Industrial Harbin Machinery Co., Ltd.; CNH Industrial America LLC
(11) AU-A-2024200334
(21) 2024200334 **(22)** 18.01.2024
(54) Independent and suspended spreader hood and distribution deflector
(51) Int. Cl.
A01D 41/12 (2006.01)
A01F 12/40 (2006.01)
(31) 18/098,403 **(32)** 18.01.23 **(33)** US

(43) 01.08.2024
(72) ISAAC, Nathan E.; LINDE, Cooper; ZHAO, Ziyang
(74) Griffith Hack

(71) Commonwealth Scientific and Industrial Research Organisation
(11) AU-A-2024203407
(21) 2024203407 **(22)** 22.05.2024
(54) RNA molecules comprising non-canonical base pairs
(51) Int. Cl.
C12N 15/113 (2010.01)
(43) 01.08.2024
(62) 2019313162
(72) SMITH, Neil Andrew; WANG, Ming Bo; ZHANG, Daai; DORAN, Timothy James; TIZARD, Mark; ALLU, Annapurna Devi; GREAVES, Ian Kevin; GAO, Lingling; ANDERSON, Jonathan Paul; DE FEYTER, Robert
(74) FB Rice Pty Ltd

CommScope Connectivity Belgium BVBA see CommScope Technologies LLC
(21) 2024204894

CommScope Connectivity UK Limited see CommScope Technologies LLC
(21) 2024204894

(71) CommScope Technologies LLC; CommScope Connectivity Belgium BVBA; CommScope Connectivity UK Limited
(11) AU-A-2024204894
(21) 2024204894 **(22)** 17.07.2024
(54) Optical Network Converter Module
(51) Int. Cl.
H04B 10/25 (2013.01)
(43) 01.08.2024
(62) 2022221377
(72) ERREYGERS, Jan Jozef Julia Maria; FRANCKX, Joris; WEEKS, William Atley; SHADDOCK, Robert Neil; MATH-ER, David; BROWN, David
(74) Davies Collison Cave Pty Ltd

(71) ConocoPhillips Company
(11) AU-A-2024204781
(21) 2024204781 **(22)** 11.07.2024
(54) PROPPANT FROM CAPTURED CARBON
(51) Int. Cl.
B28B 11/00 (2006.01)
B28B 11/24 (2006.01)
B28B 13/02 (2006.01)
(43) 01.08.2024
(62) 2022270686
(72) Laycock, Dallin L.; Plombin, Charlotte; Huisman, Samuel K.
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Cytokinetics, Inc.
(11) AU-A-2024204859

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- (21) 2024204859 (22) 15.07.2024
 (54) Dihydrobenzofuran and inden analogs as cardiac sarcomere inhibitors
 (51) Int. Cl.
C07D 403/12 (2006.01)
A61K 31/4196 (2006.01)
A61P 9/04 (2006.01)
C07D 231/14 (2006.01)
C07D 271/06 (2006.01)
C07D 401/12 (2006.01)
C07D 413/04 (2006.01)
C07D 413/12 (2006.01)
C07D 413/14 (2006.01)
C07D 417/12 (2006.01)
 (43) 01.08.2024
 (62) 2019208331
 (72) CHUANG, Chihyuan; MORGAN, Bradley P.; VANDERWAL, Mark; WANG, Wenyeue; ASHCRAFT, Luke W.
 (74) Davies Collison Cave Pty Ltd
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- (71) DAIKIN INDUSTRIES, LTD.
 (11) AU-A-2024204735
 (21) 2024204735 (22) 09.07.2024
 (54) Indoor unit of air conditioning device
 (51) Int. Cl.
F24F 1/0073 (2019.01)
F24F 8/108 (2021.01)
F24F 8/22 (2021.01)
 (43) 01.08.2024
 (62) 2022335810
 (72) OJI, Kana; FUKUSHIMA, Wataru; NAKAYAMA, Toshimichi; SUHARA, Ryota
 (74) FB Rice Pty Ltd
-
- (71) Dexlevo Inc.
 (11) AU-A-2024204794
 (21) 2024204794 (22) 11.07.2024
 (54) TISSUE RESTORATION COMPOSITION
 (51) Int. Cl.
A61L 27/60 (2006.01)
A61L 27/14 (2006.01)
C08G 63/08 (2006.01)
C08G 63/664 (2006.01)
C08J 3/03 (2006.01)
 (43) 01.08.2024
 (62) 2020387490
 (72) YU, Jae Won; SHIM, Myung Seob; KIM, Jun Bae
 (74) Davies Collison Cave Pty Ltd
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- (71) DRW Technologies, LLC
 (11) AU-A-2024204832
 (21) 2024204832 (22) 12.07.2024
 (54) System and method for latency critical quality of service using continuous bandwidth control
 (51) Int. Cl.
H04L 47/00 (2022.01)
 (43) 01.08.2024
 (62) 2023200407
 (72) MAS, Samuel Philippe; YU, Jie; WOLFSBERGER, Philip; TRUDEL-LAPIERRE, Vincent; GROGAN, Patrick; RICHARDSON, Francois-Dominique; WU, Jun
 (74) Spruson & Ferguson
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- (71) ECHOSENS
 (11) AU-A-2024200156
 (21) 2024200156 (22) 10.01.2024
 (54) ELASTOGRAPHY DEVICE AND METHOD
 (51) Int. Cl.
A61B 5/00 (2006.01)
A61B 8/00 (2006.01)
 (31) 23305032.7 (32) 10.01.23 (33) EP 18/152,516 10.01.23 US
 (43) 01.08.2024
 (72) SANDRIN, Laurent; AUDIERE, Stéphane
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
-
- (71) Encore Medical, LP DBA DJO Surgical
 (11) AU-A-2024204784
 (21) 2024204784 (22) 11.07.2024
 (54) SYSTEMS AND METHODS FOR RECONSTRUCTION AND CHARACTERIZATION OF PHYSIOLOGICALLY HEALTHY AND PHYSIOLOGICALLY DEFECTIVE ANATOMICAL STRUCTURES TO FACILITATE PREOPERATIVE SURGICAL PLANNING
 (51) Int. Cl.
A61B 34/10 (2016.01)
G16H 50/50 (2018.01)
A61B 34/00 (2016.01)
 (43) 01.08.2024
 (62) 2020358717
 (72) GUTIERREZ, Sergio; IANNOTTI, Joseph P.; FRANKLE, Mark A.; WILLIAMS, Gerald; EDWARDS, Thomas Brad; LEVY, Jonathan; ABOUD, Joseph A.
 (74) AJ PARK
-
- (71) F. & J. Attard & Sons Pty. Limited
 (11) AU-A-2024204910
 (21) 2024204910 (22) 17.07.2024
 (54) TRUCK CURTAIN AND CURTAIN SYSTEM
 (51) Int. Cl.
B60J 5/06 (2006.01)
B60J 1/20 (2006.01)
 (43) 01.08.2024
 (62) 2022200472
 (72) Grech, Julian
 (74) Jones Tulloch
-
- (71) F. HOFFMANN-LA ROCHE AG
 (11) AU-A-2024204847
 (21) 2024204847 (22) 15.07.2024
 (54) Quinazoline Derivatives as Antitumor Agents
 (51) Int. Cl.
C07D 403/14 (2006.01)
A61K 31/517 (2006.01)
A61P 35/00 (2006.01)
 (43) 01.08.2024
 (62) 2019341273
 (72) ZHOU, Ding; CHENG, Ziqiang
 (74) Eagar & Associates Pty Ltd
-
- (71) FORD, S.
 (11) AU-A-2024204820
 (21) 2024204820 (22) 12.07.2024
 (54) A PREFABRICATED WALL STRUCTURE
 (51) Int. Cl.
E04C 2/34 (2006.01)
E04B 2/86 (2006.01)
E04G 11/06 (2006.01)
 (43) 01.08.2024
 (62) 2018203654
 (72) FORD, Shane
 (74) Baxter Patent Attorneys Pty Ltd
-
- (71) Ford Global Technologies, LLC
 (11) AU-A-2024200031
 (21) 2024200031 (22) 03.01.2024
 (54) Engine and engine exhaust control system
 (51) Int. Cl.
F02D 41/28 (2006.01)
F01N 1/16 (2006.01)
 (31) 18/153723 (32) 12.01.23 (33) US
 (43) 01.08.2024
 (72) WESTON, Keith; DIAMOND, Brendan F.; MCNEES, Michael Alan; MARTINEZ, Victor
 (74) WRAYS PTY LTD
-
- (71) Georg Fischer Rohrleitungssysteme AG
 (11) AU-A-2024200053
 (21) 2024200053 (22) 04.01.2024
 (54) Slide unit for a shut-off valve
 (51) Int. Cl.
F16K 3/314 (2006.01)
F16K 31/50 (2006.01)
 (31) 23 151 434.0 (32) 13.01.23 (33) EP
 (43) 01.08.2024
 (72) TREFZ, Oliver; ANDRY, Martin; HUNNEKUH, Joerg; KRAUTER, Christoph; HUESY, Jonas
 (74) FB Rice Pty Ltd
-
- (71) Getac Technology Corporation
 (11) AU-A-2023203389
 (21) 2023203389 (22) 31.05.2023
 (54) Hinge assembly and casing assembly for electronic device
 (51) Int. Cl.
G06F 1/16 (2006.01)
 (31) 202310073077.0 (32) 18.01.23 (33) CN
 (43) 01.08.2024
 (72) LEE, Kun-Cheng; CHANG, Juei-Chi
 (74) A.P.T. Patent and Trade Mark Attorneys
-
- (71) Getac Technology Corporation
 (11) AU-A-2023204706
 (21) 2023204706 (22) 15.07.2023
 (54) Protective case and portable electronic device
 (51) Int. Cl.
A45C 13/36 (2006.01)
A45C 11/00 (2006.01)
B65D 85/30 (2006.01)
G06F 1/16 (2006.01)
H04B 1/3888 (2015.01)

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(31) 202310064070.2 (32) 13.01.23 (33) CN
 (43) 01.08.2024
 (72) WANG, Shih-Wei
 (74) A.P.T. Patent and Trade Mark Attorneys

(71) Gilead Sciences, Inc.
 (11) AU-A-2024204902
 (21) 2024204902 (22) 17.07.2024
 (54) Cot modulators and methods of use thereof

(51) Int. Cl.
C07D 401/14 (2006.01)
A61K 31/4709 (2006.01)
A61P 29/00 (2006.01)
A61P 35/00 (2006.01)
C07D 401/12 (2006.01)
C07D 405/14 (2006.01)
C07D 409/14 (2006.01)
C07D 413/14 (2006.01)
C07D 417/14 (2006.01)
C07D 471/04 (2006.01)
C07D 495/04 (2006.01)

(43) 01.08.2024
 (62) 2022204050
 (72) Bacon, Elizabeth M.; Balan, Gayatri; Chou, Chien-Hung; Clark, Christopher T.; Cottell, Jeromy J.; Kim, Musong; Kirschberg, Thorsten A.; Link, John O.; Phillips, Gary; Schroeder, Scott D.; Squires, Neil H.; Stevens, Kirk L.; Taylor, James G.; Watkins, William J.; Wright, Nathan E.; Zipfel, Sheila M.
 (74) FPA Patent Attorneys Pty Ltd

(71) Global Blue SA
 (11) AU-A-2024204771
 (21) 2024204771 (22) 10.07.2024
 (54) PAYMENT TERMINAL DEVICE AND METHOD

(51) Int. Cl.
G06Q 20/38 (2012.01)
G06Q 20/34 (2012.01)

(43) 01.08.2024
 (62) 2018340290
 (72) TAN, Puay Hiang; LING, James Michael
 (74) IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

(71) Globeride, Inc.
 (11) AU-A-2023282189
 (21) 2023282189 (22) 12.12.2023
 (54) FISHING REEL

(51) Int. Cl.
A01K 89/01 (2006.01)
 (31) 2023-003643 (32) 13.01.23 (33) JP
 (43) 01.08.2024
 (72) OKUMA, Kentaro
 (74) Griffith Hack

(71) Great Plains Manufacturing, Inc.
 (11) AU-A-2024204745
 (21) 2024204745 (22) 10.07.2024
 (54) Compact Utility Loader
 (51) Int. Cl.
E02F 9/08 (2006.01)

E02F 3/34 (2006.01)
E02F 9/20 (2006.01)
E02F 9/26 (2006.01)
 (43) 01.08.2024
 (62) 2024200396
 (72) Carlson, Jason; Takemura, Toshihiko; Relph, John; Shobe, Matthew; Welsh, Jeff
 (74) SR Intellectual Property

(71) Gregg Drilling, LLC
 (11) AU-A-2024201614
 (21) 2024201614 (22) 12.03.2024
 (54) Geotechnical rig systems and methods
 (51) Int. Cl.
E21B 7/00 (2006.01)
E21B 7/02 (2006.01)
E21B 19/00 (2006.01)
E21B 19/20 (2006.01)
E21B 44/00 (2006.01)
 (43) 01.08.2024
 (62) 2023210570
 (72) GREGG, John; SCHUBERT, Matthew; SCHUBERT, Phillip
 (74) Spruson & Ferguson

(71) Grip Holdings LLC
 (11) AU-A-2024204899
 (21) 2024204899 (22) 17.07.2024
 (54) Anti-Slippage Fastener
 (51) Int. Cl.
F16B 23/00 (2006.01)
 (43) 01.08.2024
 (62) 2019226491
 (72) KUKUCKA, Paul; KUKUCKA, Thomas Stefan
 (74) A.P.T. Patent and Trade Mark Attorneys

(71) Guangdong Aiko Solar Energy Technology Co., Ltd.
 (11) AU-A-2024204838
 (21) 2024204838 (22) 13.07.2024
 (54) ELECTRODE STRUCTURE OF BACK CONTACT CELL, BACK CONTACT CELL, BACK CONTACT CELL MODULE, AND BACK CONTACT CELL SYSTEM
 (51) Int. Cl.
H01L 31/0224 (2006.01)
H01G 2/00 (2006.01)
 (43) 01.08.2024
 (62) 2023200965
 (72) WANG, Yongqian; YANG, Xinqiang; CHEN, Gang
 (74) LAMINAR IP PTY LTD

(71) Hamex Fuel Cell Pvt Ltd.
 (11) AU-A-2024204815
 (21) 2024204815 (22) 12.07.2024
 (54) Controlled Dosage Dispensing Valve
 (51) Int. Cl.
F16K 3/26 (2006.01)
F16K 1/30 (2006.01)
F16K 21/16 (2006.01)
F17C 13/04 (2006.01)

(43) 01.08.2024
 (62) 2023251484
 (72) McCormack, Rex; Moza, Vinod Kumar
 (74) Southern Cross Intellectual Property

(71) Hera Health Solutions Inc.
 (11) AU-A-2024204746
 (21) 2024204746 (22) 10.07.2024
 (54) Bioerodible drug delivery implants
 (51) Int. Cl.

A61K 9/70 (2006.01)
A61K 9/00 (2006.01)
B29C 53/00 (2006.01)
 (43) 01.08.2024
 (62) 2018301320
 (72) WHITFIELD, Garrett; MATHEW, Idicula; DEVLIN, Matthew; MCVEY, Anthony
 (74) FPA Patent Attorneys Pty Ltd

(71) Highlight Therapeutics, S.L.
 (11) AU-A-2024204758
 (21) 2024204758 (22) 10.07.2024
 (54) NOVEL PHARMACEUTICAL COMPOSITION COMPRISING PARTICLES COMPRISING A COMPLEX OF A DOUBLE-STRANDED POLYRIBONUCLEOTIDE AND A POLYALKYLENEIMINE
 (51) Int. Cl.

A61K 9/08 (2006.01)
A61K 9/19 (2006.01)
A61K 47/26 (2006.01)
A61P 31/04 (2006.01)
A61P 31/12 (2006.01)
A61P 35/00 (2006.01)
 (43) 01.08.2024
 (62) 2017414660
 (72) Quintero Ortiz, Marisol; Pozuelo Rubio, Mercedes; Planelles Carazo, Lourdes
 (74) Jones Tulloch

(71) Hollister Incorporated
 (11) AU-A-2024204895
 (21) 2024204895 (22) 17.07.2024
 (54) Package for medical device for ergonomic device removal
 (51) Int. Cl.
A61M 27/00 (2006.01)
A61M 25/00 (2006.01)
 (43) 01.08.2024
 (62) 2018378592
 (72) RYAN, Owen; LAUNOIS, Pascal
 (74) Spruson & Ferguson

(71) Huawei Technologies Co., Ltd.
 (11) AU-A-2024204772
 (21) 2024204772 (22) 10.07.2024
 (54) BANDWIDTH INDICATION METHOD APPLIED IN WIRELESS LOCAL AREA NETWORK AND COMMUNICATION APPARATUS
 (51) Int. Cl.
H04W 28/20 (2009.01)
 (43) 01.08.2024
 (62) 2021264578
 (72) Yu, Jian; Hu, Mengshi; Gan, Ming
 (74) PHILLIPS ORMONDE FITZPATRICK

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- (71) Idemitsu Kosan Co., Ltd.
 (11) AU-A-2024204750
 (21) 2024204750 (22) 10.07.2024
 (54) HYDRAULIC OIL COMPOSITION
 (51) Int. Cl.
C10M 141/06 (2006.01)
C10M 141/10 (2006.01)
C10M 129/10 (2006.01)
C10M 133/12 (2006.01)
C10M 133/16 (2006.01)
C10M 133/56 (2006.01)
C10M 137/04 (2006.01)
C10M 137/08 (2006.01)
C10N 10/04 (2006.01)
C10N 20/00 (2006.01)
C10N 30/00 (2006.01)
C10N 30/06 (2006.01)
C10N 30/10 (2006.01)
C10N 40/08 (2006.01)
 (43) 01.08.2024
 (62) 2018352257
 (72) Aoki, Shinji; Inoue, Shota
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) Igin Smart Hygiene Ltd
 (11) AU-A-2024204901
 (21) 2024204901 (22) 17.07.2024
 (54) Apparatus for Putting a Glove on a Palm Hand
 (51) Int. Cl.
A61B 42/50 (2016.01)
A61B 42/00 (2016.01)
A61B 42/10 (2016.01)
A61B 42/40 (2016.01)
B65G 47/00 (2006.01)
B65G 47/90 (2006.01)
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 (72) AVSHALOM, Shlomo Matan Shalom
 (74) A.P.T. Patent and Trade Mark Attorneys
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E21B 21/12 (2006.01)
E21B 4/14 (2006.01)
E21B 10/38 (2006.01)
E21B 17/18 (2006.01)
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 (72) BOSWELL, Peter Warwick
 (74) Integrated IP
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- (71) Incyte Corporation
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 (51) Int. Cl.
A61K 31/4155 (2006.01)
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A61P 37/00 (2006.01)
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 (74) Houlihan Intellectual Property Pty Ltd
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G06Q 99/00 (2006.01)
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 (54) A fastening system
 (51) Int. Cl.
E04F 13/24 (2006.01)
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- (71) James W. Schleiffarth
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B01D 19/00 (2006.01)
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 (54) Shelf System And A Securing System For Use With Same
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A47B 57/00 (2006.01)
A47B 45/00 (2006.01)
A47B 47/00 (2006.01)
 (43) 01.08.2024
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 (72) McEwen, Jonathan Lloyd
 (74) WRAYS PTY LTD
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 (54) Predictive replacement for heavy machinery
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E02F 9/26 (2006.01)
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G06Q 10/06 (2023.01)
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 (74) Griffith Hack
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E21C 35/12 (2006.01)
E21C 27/24 (2006.01)
E21C 29/02 (2006.01)
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 (54) Shaft support for industrial machine
 (51) Int. Cl.
F16C 23/00 (2006.01)
B65G 23/44 (2006.01)
B65G 39/09 (2006.01)
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 (51) Int. Cl.
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A61K 31/497 (2006.01)
A61P 35/00 (2006.01)
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 (54) WAVE POOL AND WAVE GENERATOR FOR BI-DIRECTIONAL AND DYNAMICALLY-SHAPED SURFING WAVES
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E04H 4/00 (2006.01)
A63B 69/00 (2006.01)
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 (54) Door system
 (51) Int. Cl.
E06B 1/04 (2006.01)
E06B 1/18 (2006.01)
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E06B 5/10 (2006.01)

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 (74) FB Rice Pty Ltd

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 (54) SYSTEM AND METHOD OF DETERMINING INTERFERING SIGNAL PARAMETERS
 (51) Int. Cl.
H04B 1/10 (2006.01)
G01S 19/13 (2010.01)
G01S 19/21 (2010.01)

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 (74) Maxwells Patent & Trade Mark Attorneys Pty Ltd

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 (54) DENATURED MILK PROTEINS AND METHODS OF MAKING THEM
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A23J 3/08 (2006.01)
A23C 9/13 (2006.01)
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 (54) LAUNDRY TREATMENT DEVICE
 (51) Int. Cl.
D06F 34/34 (2020.01)
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 (74) FB Rice Pty Ltd

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 (54) REFRIGERATOR
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F25D 17/06 (2006.01)
F25C 1/04 (2018.01)

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 (72) HONG, Jinil; KIM, Nayoung; CHOO, Ayoung
 (74) Dentons Patent Attorneys Australasia Limited

(71) LivePerson, Inc.
 (11) AU-A-2024204915
 (21) 2024204915 (22) 17.07.2024
 (54) Systems and methods for intent response solicitation and processing
 (51) Int. Cl.
H04L 51/046 (2022.01)
G06Q 10/10 (2023.01)
G06Q 30/02 (2023.01)
H04M 3/523 (2006.01)

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 (72) COHEN, Goor; AVIRAM, Shai; KEDMI, Avi
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 (54) METHOD AND SYSTEM FOR ASSESSING RACKET STROKE HEAVINESS
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A63B 24/00 (2006.01)
A63B 69/38 (2006.01)

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 (72) LOMBARDI THOMAS, Lindsey; THOMAS, Brian
 (74) Pizzey's Patent and Trade Mark Attorneys Pty Ltd

(71) LuxCreo (Beijing) Inc.
 (11) AU-A-2024204916
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 (54) Additive manufacturing apparatus and method
 (51) Int. Cl.

B29C 64/286 (2017.01)
B29C 35/08 (2006.01)
B29C 64/129 (2017.01)
B33Y 30/00 (2015.01)
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B60R 21/215 (2011.01)
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 (74) Madderns Pty Ltd

(71) Mars Engineers Pty Ltd
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 (54) ROLLER BEARING SUPPORT APPARATUS
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B66C 1/62 (2006.01)
B60B 29/00 (2006.01)
B60B 30/00 (2006.01)
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 (72) Farahpour, Hamed
 (74) Mann IP

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 (54) Blade assembly for cutting food
 (51) Int. Cl.
A47J 43/07 (2006.01)
B26D 1/00 (2006.01)
B26D 3/00 (2006.01)

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 (72) ROGERS, David M.; AIKENS, John Warren; BÖMONT, Sylvain
 (74) FB Rice Pty Ltd

(71) McCain Foods Limited
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 (54) Blade assembly for cutting food
 (51) Int. Cl.
A47J 43/07 (2006.01)
B26D 1/00 (2006.01)
B26D 3/00 (2006.01)

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 (74) FB Rice Pty Ltd

(71) McCain Foods Limited
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 (21) 2024204810 (22) 12.07.2024
 (54) Blade assembly for cutting food
 (51) Int. Cl.
A47J 43/07 (2006.01)
B26D 1/00 (2006.01)
B26D 3/00 (2006.01)

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B60R 1/078 (2006.01)
B60R 1/02 (2006.01)
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A61K 39/00 (2006.01)
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 (51) Int. Cl.
B60R 13/07 (2006.01)
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 (62) 2020273513
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 (74) Adams Pluck
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 (21) 2024204888 (22) 16.07.2024
 (54) A lid arrangement for a canister for a retractable rollup truck bed cover
 (51) Int. Cl.
B60J 7/04 (2006.01)
B60J 7/06 (2006.01)
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 (74) Adams Pluck
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 (51) Int. Cl.
A61K 35/66 (2015.01)
A61K 31/00 (2006.01)
A61K 35/74 (2015.01)
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 (54) Computer Network System and Process for Collecting Tax on Online Commerce
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G06Q 30/04 (2012.01)
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 (74) Patentec Patent Attorneys
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 (54) SAMPLE PROCESSING DEVICE COMPRISING MAGNETIC AND MECHANICAL ACTUATING ELEMENTS USING LINEAR OR ROTATIONAL MOTION AND METHODS OF USE THEREOF
 (51) Int. Cl.
B01L 3/00 (2006.01)
B65D 35/30 (2006.01)
B65D 35/56 (2006.01)
B65D 47/36 (2006.01)
G01N 33/487 (2006.01)
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 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
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 (54) Liner assembly for pipelines and related method
 (51) Int. Cl.
F16L 55/18 (2006.01)
B29C 63/34 (2006.01)
F16L 55/163 (2006.01)
F16L 58/10 (2006.01)
F17D 1/08 (2006.01)
F22B 33/18 (2006.01)
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H02J 50/20 (2016.01)
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H02M 7/00 (2006.01)
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 (51) Int. Cl.
H02G 3/04 (2006.01)
H02G 3/30 (2006.01)
H02G 3/38 (2006.01)
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C12N 9/22 (2006.01)
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 (72) SMITH, James Jefferson; JANTZ, Derek
 (74) Davies Collison Cave Pty Ltd
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- (71) President and Fellows of Harvard College; BASF SE
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B29B 9/00 (2006.01)
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B41M 3/14 (2006.01)
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 (51) Int. Cl.
G06V 30/412 (2022.01)
G06T 7/00 (2017.01)
G06V 10/98 (2022.01)

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 Matthew Andrew
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D03D 1/00 (2006.01)
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 (72) Rado, Juliska
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C07K 14/705 (2006.01)
A01K 67/027 (2006.01)

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 A.; Stevens, Sean
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 (54) PATIENT INTERFACE WITH FOAM CUSHION
 (51) Int. Cl.
A61M 16/06 (2006.01)

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 (72) YEW, Robin; SEET, Lik Tze; BATE, Andrew
 James; LAW, Kam Man
 (74) Halfords IP

(71) ResMed Sensor Technologies Limited
 (11) AU-A-2024204900
 (21) 2024204900 (22) 17.07.2024
 (54) METHOD AND APPARATUS FOR DETERMINING
 POTENTIAL ONSET OF AN ACUTE MEDICAL
 CONDITION

(51) Int. Cl.
A61B 5/08 (2006.01)
G06N 20/00 (2019.01)
G08B 21/02 (2006.01)
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 (74) Davies Collison Cave Pty Ltd

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 (54) METHODS AND SYSTEMS FOR DETERMINING
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G06K 5/00 (2006.01)
G06K 7/14 (2006.01)
G06K 19/06 (2006.01)
G06V 30/413 (2022.01)
G06V 30/418 (2022.01)

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 (72) Rodriguez, Raphael
 (74) Wallington-Dummer

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 (51) Int. Cl.

C12N 9/14 (2006.01)
A61K 38/16 (2006.01)
C12N 9/22 (2006.01)
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 (74) Griffith Hack

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C07K 16/28 (2006.01)
A61K 39/00 (2006.01)

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 (72) FISCHER, Stephan; BRANDT, Michael;
 KAZANDJIAN, Linda Veronique
 (74) Griffith Hack

(71) SCALEOP OÜ
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 (21) 2023285766 (22) 20.12.2023
 (54) A CABLE FEEDING UNIT FOR A SHORE
 CABLE MANAGEMENT SYSTEM
 (51) Int. Cl.
B66D 1/26 (2006.01)
B66D 1/02 (2006.01)
B66D 1/36 (2006.01)
B66D 1/40 (2006.01)

(31) 23151536.2 (32) 13.01.23 (33) EP

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 (72) Jo#gi, Alar; Vinni, Mehis
 (74) Collison & Co

(71) Schneider Electric (Australia) Pty Limited
 (11) AU-A-2024204754
 (21) 2024204754 (22) 10.07.2024
 (54) CONNECTION SYSTEM AND METHOD FOR
 ELECTRICAL OUTLETS
 (51) Int. Cl.
H05K 7/00 (2006.01)
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 (62) 2022252756
 (72) de Man, Gerrit; Reuter, Mark
 (74) Madderns Pty Ltd

(71) Schneider Electric Industries SAS
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 (21) 2023285728 (22) 19.12.2023
 (54) RESETTING RCD MECHANISM BY THE HANDLE
 (51) Int. Cl.
H01H 71/52 (2006.01)
H01H 3/04 (2006.01)
H01H 15/02 (2006.01)
H01H 71/02 (2006.01)

(31) FR2300432 (32) 17.01.23 (33) FR
 (43) 01.08.2024
 (72) Burnot, Claude
 (74) Madderns Pty Ltd

(71) SELC Ireland Ltd.
 (11) AU-A-2024204849
 (21) 2024204849 (22) 15.07.2024
 (54) Streetlight asset module, streetlights
 and related systems
 (51) Int. Cl.
F21V 23/00 (2015.01)

(43) 01.08.2024
 (62) 2019334447
 (72) KERRIGAN, William John; MAGEE,
 Francis Joseph; POWER, John Martin
 (74) Griffith Hack

(71) Selecta Biosciences, Inc.
 (11) AU-A-2024204850
 (21) 2024204850 (22) 15.07.2024
 (54) Methods and compositions related to
 combined treatment with anti-inflammatories
 and synthetic nanocarriers comprising an
 immunosuppressant
 (51) Int. Cl.

A61K 45/00 (2006.01)
A61K 38/43 (2006.01)
A61P 29/00 (2006.01)
 (43) 01.08.2024
 (62) 2018236123
 (72) Johnston, Lloyd
 (74) Pizeys Patent and Trade Mark Attorneys
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 (11) AU-A-2024204851
 (21) 2024204851 (22) 15.07.2024

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 (51) Int. Cl.
A61K 38/44 (2006.01)
A61K 9/14 (2006.01)
A61K 31/436 (2006.01)
A61K 45/06 (2006.01)
B82Y 5/00 (2011.01)
 (43) 01.08.2024
 (62) 2017230891
 (72) Johnston, Lloyd; Cautreels, Werner; Sands, Earl; Kishimoto, Takashi K.
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
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- (71) Seres Therapeutics, Inc.
 (11) AU-A-2024204663
 (21) 2024204663 (22) 05.07.2024
 (54) SYNERGISTIC BACTERIAL COMPOSITIONS AND METHODS OF PRODUCTION AND USE THEREOF
 (51) Int. Cl.
A01N 63/00 (2020.01)
A01N 65/00 (2009.01)
 (43) 01.08.2024
 (62) 2022204478
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 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) SHAHEEN INNOVATIONS HOLDING LIMITED
 (11) AU-A-2024204767
 (21) 2024204767 (22) 10.07.2024
 (54) Mist inhaler devices
 (51) Int. Cl.
A24B 15/167 (2020.01)
A24F 40/05 (2020.01)
A24F 40/10 (2020.01)
A24F 40/485 (2020.01)
A61M 11/00 (2006.01)
A61M 15/00 (2006.01)
B05B 17/06 (2006.01)
B06B 1/02 (2006.01)
B05B 17/00 (2006.01)
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 (72) ALSHAIBA SALEH GHANNAM ALMAZROUEI, Mohammed; BHATTI, Sajid; MACHOVEC, Jeff; LAM-OUREUX, Clement
 (74) Davies Collison Cave Pty Ltd
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 (11) AU-A-2023202909
 (21) 2023202909 (22) 10.05.2023
 (54) Robot Swimming Pool Cleaner with Convenient-to-Replace Battery
 (51) Int. Cl.
E04H 4/16 (2006.01)
A47L 9/28 (2006.01)
A47L 11/00 (2006.01)
 (31) 202310040417X (32) 13.01.23 (33) CN
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 (74) Collison & Co
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 (11) AU-A-2023202910
 (21) 2023202910 (22) 10.05.2023
 (54) Water Surface Profile Cleaning Method and System of Robot Swimming Pool Cleaner, and Readable Storage Medium
 (51) Int. Cl.
E04H 4/16 (2006.01)
A47L 9/28 (2006.01)
A47L 11/38 (2006.01)
 (31) 2023100557669 (32) 17.01.23 (33) CN
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 (72) WANG, Yang; YU, Xueliang; YE, Liangwen
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 (54) Robot Swimming Pool Cleaner with Filter Screen Anti-blocking Function
 (51) Int. Cl.
E04H 4/16 (2006.01)
A47L 9/10 (2006.01)
B01D 29/66 (2006.01)
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- (71) Sigilon Therapeutics, Inc.
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 (21) 2024204785 (22) 11.07.2024
 (54) AFIBROTIC COMPOUNDS, DEVICES, AND USES THEREOF
 (51) Int. Cl.
C07D 405/06 (2006.01)
A61K 31/4192 (2006.01)
A61N 1/05 (2006.01)
C07D 249/06 (2006.01)
C07D 405/12 (2006.01)
C07D 417/06 (2006.01)
C07D 487/06 (2006.01)
C07D 491/10 (2006.01)
 (43) 01.08.2024
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 (74) Pearce IP Pty Ltd
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- (71) Slingshot Haulage Pty Ltd
 (11) AU-A-2024204853
 (21) 2024204853 (22) 15.07.2024
 (54) A TRAILER ASSEMBLY
 (51) Int. Cl.
B62D 53/00 (2006.01)
B60P 3/40 (2006.01)
B62D 13/00 (2006.01)
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 (72) DEHNE, Leigh; MCDONNELL, Kevin
 (74) Baxter Patent Attorneys Pty Ltd
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 (21) 2024204833 (22) 12.07.2024
 (54) Modular production line and process for using it
 (51) Int. Cl.
A23G 3/08 (2006.01)
A23G 1/00 (2006.01)
A23G 3/34 (2006.01)
A23G 7/00 (2006.01)
A23G 7/02 (2006.01)
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 (74) Spruson & Ferguson
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 (11) AU-A-2024200308
 (21) 2024200308 (22) 17.01.2024
 (54) ANTI-PINCH SYSTEM FOR AN ELECTRIC SEAT
 (51) Int. Cl.
A47C 1/032 (2006.01)
A47C 1/035 (2006.01)
A61G 5/10 (2006.01)
A61G 15/02 (2006.01)
 (31) 112200714 (32) 18.01.23 (33) TW
 (43) 01.08.2024
 (72) Wang, Andy
 (74) Madderns Pty Ltd
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- (71) SOLE, T.
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 (54) Multi-game Tile or Card Sets
 (51) Int. Cl.
A63F 9/20 (2006.01)
A63F 1/04 (2006.01)
A63F 3/00 (2006.01)
 (43) 01.08.2024
 (72) SOLE, Timothy
 (74) PIPERS
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- (71) Sungrow Power Supply (Nanjing) Co., Ltd
 (11) AU-A-2023270191
 (21) 2023270191 (22) 20.11.2023
 (54) Method and apparatus for processing photovoltaic data, and system for managing photovoltaic data
 (51) Int. Cl.
G06F 7/06 (2006.01)
G06F 16/20 (2019.01)
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 (54) Door Assembly
 (51) Int. Cl.
E05D 15/06 (2006.01)
E06B 3/46 (2006.01)
E06B 3/72 (2006.01)
A01K 1/00 (2006.01)
E06B 3/76 (2006.01)
 (31) 2023900089 (32) 16.01.23 (33) AU
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 (72) McCalman, Laurie; Vanninen, Jussi;
 Kirk, Aston
 (74) Sandercock & Cowie

(71) Swan Hill Engineering Pty Ltd
 (11) AU-A-2024200160
 (21) 2024200160 (22) 10.01.2024
 (54) Structure Support
 (51) Int. Cl.
E04C 3/40 (2006.01)
E04B 1/32 (2006.01)
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E04C 3/04 (2006.01)
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E04H 3/12 (2006.01)
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E04H 5/08 (2006.01)
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 (72) McCalman, Greg; McCalman, Laurie;
 Sobey, Jayden; Vanninen, Jussi
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(71) Takeda Pharmaceutical Company Limited
 (11) AU-A-2024204779
 (21) 2024204779 (22) 11.07.2024
 (54) REMOVAL OF SERINE PROTEASES BY TREATMENT WITH FINELY DIVIDED SILICON DIOXIDE
 (51) Int. Cl.
C07K 16/00 (2006.01)
A61K 9/00 (2006.01)
A61K 9/08 (2006.01)
A61K 38/17 (2006.01)
A61K 47/18 (2017.01)
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 (62) 2021286395
 (72) Svatos, Sonja; Teschner, Wolfgang;
 Schwarz, Hans-Peter; Pljevljakovic,
 Azra; Weber, Alfred; Madlener, Ruth
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) Techtronic Cordless GP
 (11) AU-A-2024200175
 (21) 2024200175 (22) 11.01.2024
 (54) Lawn mowers and associated features and methods
 (51) Int. Cl.
A01D 34/00 (2006.01)
A01D 34/81 (2006.01)
A01D 34/82 (2006.01)
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 Gregory S.
 (74) Spruson & Ferguson

(71) Teleflex Medical Incorporated
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 (21) 2024204741 (22) 10.07.2024
 (54) SURGICAL CLIP
 (51) Int. Cl.
A61B 17/122 (2006.01)
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 (62) 2020405150
 (72) SHELLENBERGER, Carson; ENNISS,
 Ian
 (74) RnB IP Pty Ltd

(71) TELEFLEX MEDICAL INCORPORATED
 (11) AU-A-2024204740
 (21) 2024204740 (22) 10.07.2024
 (54) SURGICAL CLIP
 (51) Int. Cl.
A61B 17/122 (2006.01)
 (43) 01.08.2024
 (62) 2022202708
 (72) FOSHEE, David Lee; CASTRO, Salvatore
 (74) RnB IP Pty Ltd

(71) Tencent America LLC
 (11) AU-A-2024204880
 (21) 2024204880 (22) 16.07.2024
 (54) METHOD AND APPARATUS FOR VIDEO ENCODING OR DECODING
 (51) Int. Cl.
H04N 19/10 (2014.01)
H04N 19/12 (2014.01)
H04N 19/122 (2014.01)
H04N 19/157 (2014.01)
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H04N 19/60 (2014.01)
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 (72) ZHAO, Xin; XU, Xiaozhong; LI, Xiang;
 LIU, Shan
 (74) Griffith Hack

(71) The Board of Regents of the University of Texas System
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 (21) 2024204761 (22) 10.07.2024
 (54) Connexin (Cx) 43 hemichannel-binding antibodies and uses thereof
 (51) Int. Cl.
C07K 16/18 (2006.01)
A61K 39/395 (2006.01)
C12N 15/79 (2006.01)
 (43) 01.08.2024
 (62) 2017224122
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 Ningyan; XIONG, Wei; RIQUELME,
 Manuel A.; GU, Sumin; SAYRE, Naomi
 Ledene
 (74) Spruson & Ferguson

(71) The Boeing Company
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 (21) 2023258346 (22) 31.10.2023
 (54) Overlaying flight paths for environmental impact mitigation
 (51) Int. Cl.
G08G 5/00 (2006.01)
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 (72) Kirk A. VINING; Alvin L. SIPE; Stephen S. ALTUS; Steven L. BAUGHUM;
 Tristan C. FLANZER
 (74) Spruson & Ferguson

(71) The Council of The Queensland Institute of Medical Research
 (11) AU-A-2024204831
 (21) 2024204831 (22) 12.07.2024
 (54) Methods of treating autoimmune disease using allogeneic T cells
 (51) Int. Cl.
A61K 35/17 (2015.01)
A61K 39/245 (2006.01)
A61P 37/00 (2006.01)
C12N 5/0783 (2010.01)
 (43) 01.08.2024
 (62) 2017271134
 (72) Khanna, Rajiv
 (74) Pearce IP Pty Ltd

The Regents of the University of Colorado, a body corporate see Alcon, Inc.
 (21) 2024204907

THOMAS, B. see LOMBARDI THOMAS, L.
 (21) 2024204325

(71) Topelia Aust Limited
 (11) AU-A-2024204821
 (21) 2024204821 (22) 12.07.2024
 (54) Products of manufacture and methods for treating, ameliorating or preventing coronavirus infection
 (51) Int. Cl.
A61K 31/7048 (2006.01)
A61K 31/165 (2006.01)
A61K 31/215 (2006.01)
A61K 31/375 (2006.01)
A61K 31/427 (2006.01)
A61K 31/4409 (2006.01)
A61K 31/4706 (2006.01)
A61K 31/495 (2006.01)
A61K 31/593 (2006.01)
A61K 31/65 (2006.01)
A61K 31/675 (2006.01)
A61K 33/30 (2006.01)
A61P 31/14 (2006.01)
 (43) 01.08.2024
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 (72) BORODY, Thomas Julius
 (74) Spruson & Ferguson

(71) TransMedics, Inc.
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- (54) APPARATUS FOR PERFUSION OF AN EXCISED ORGAN
(51) Int. Cl.
A01N 1/02 (2006.01)
A61J 1/00 (2023.01)
- (43) 01.08.2024
(62) 2018368000
(72) FREED, Darren
(74) Adams Pluck
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- (71) TRIAGENICS, INC.
(11) AU-A-2024204765
(21) 2024204765 (22) 10.07.2024
(54) Ablation probe systems
(51) Int. Cl.
A61B 18/18 (2006.01)
A61B 18/12 (2006.01)
- (43) 01.08.2024
(62) 2020475251
(72) COLBY, Leigh E.; WATSON, David
(74) Davies Collison Cave Pty Ltd
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- (71) Trina Solar Co., Ltd.
(11) AU-A-2024204845
(21) 2024204845 (22) 15.07.2024
(54) Solar cell and preparation method thereof, photovoltaic module, and photovoltaic system
(51) Int. Cl.
H01L 31/04 (2014.01)
H01L 31/0216 (2014.01)
H01L 31/0224 (2006.01)
H01L 31/0352 (2006.01)
- (31) 202410118651.4 (32) 29.01.24 (33) CN
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(74) FB Rice Pty Ltd
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- (71) Trina Solar Co., Ltd.
(11) AU-A-2024204864
(21) 2024204864 (22) 15.07.2024
(54) Solar cell and manufacturing method thereof, photovoltaic module and photovoltaic system
(51) Int. Cl.
H01L 31/04 (2014.01)
H01L 27/142 (2014.01)
- (31) 202311518068.4 (32) 15.11.23 (33) CN
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(74) FB Rice Pty Ltd
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- (71) UNIQCO-IP PTY LTD
(11) AU-A-2023200260
(21) 2023200260 (22) 18.01.2023
(54) CONTAINER, CONTAINER BLANK, AND METHOD OF FORMING A CONTAINER
(51) Int. Cl.
B65D 5/00 (2006.01)
B65D 5/20 (2006.01)
B65D 5/22 (2006.01)
B65D 5/46 (2006.01)
B65D 5/468 (2006.01)
B65D 21/02 (2006.01)
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- (43) 01.08.2024
(72) Delafosse, Mark; Turley, Matthew
(74) mdp Patent and Trade Mark Attorneys
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- (71) VACCINEX, INC.
(11) AU-A-2024204752
(21) 2024204752 (22) 10.07.2024
(54) HUMAN ANTI-SEMAPHORIN 4D ANTI-BODY
(51) Int. Cl.
C07K 16/18 (2006.01)
A61K 39/395 (2006.01)
C07K 16/28 (2006.01)
- (43) 01.08.2024
(62) 2018261947
(72) SMITH, Ernest S; CORNELISON, Angelica; SCRIVENS, Maria GM; PARIS, Mark; ZAUDERER, Maurice
(74) AJ PARK
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(11) AU-A-2024200306
(21) 2024200306 (22) 17.01.2024
(54) AUTOMATED INDEXING AND EXTRACTION OF INFORMATION IN DIGITAL DOCUMENTS
(51) Int. Cl.
G06V 30/413 (2022.01)
G06F 40/279 (2020.01)
G06F 40/30 (2020.01)
G06V 30/416 (2022.01)
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(21) 2023200796
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- (71) Washington University
(11) AU-A-2024204862
(21) 2024204862 (22) 15.07.2024
(54) Compositions and methods for targeted cytokine delivery
(51) Int. Cl.
C07K 19/00 (2006.01)
- (43) 01.08.2024
(62) 2017213659
(72) Krupnick, Alexander Sasha; Lazear, Eric Reed; Westwick, John; Fremont, Daved Henry
(74) Pizeys Patent and Trade Mark Attorneys Pty Ltd
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- (71) WAVE LIFE SCIENCES LTD.
(11) AU-A-2024204904
(21) 2024204904 (22) 17.07.2024
(54) Technologies for oligonucleotide preparation
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- (51) Int. Cl.
C07H 21/02 (2006.01)
C07C 317/28 (2006.01)
C12N 15/11 (2006.01)
C12N 15/113 (2010.01)
C12Q 1/68 (2018.01)
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(62) 2018333065
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- (71) Whirlpool Corporation
(11) AU-A-2024200141
(21) 2024200141 (22) 09.01.2024
(54) Magnetic Compass Interlock Vessel Detection And Vessel Recognition Device
(51) Int. Cl.
A47J 43/06 (2006.01)
H01F 7/02 (2006.01)
- (31) 18/153,651 (32) 12.01.23 (33) US
(43) 01.08.2024
(72) BRADLEY, Samuel J; HANEY, Edward James; LEITERT, Andrew John; SHEWALE, Pravin R
(74) WRAYS PTY LTD
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- (71) Whirlpool Corporation
(11) AU-A-2024200163
(21) 2024200163 (22) 11.01.2024
(54) Food Processor Optimized Dicing Kit System
(51) Int. Cl.
B26D 3/20 (2006.01)
A47J 43/07 (2006.01)
B26D 7/26 (2006.01)
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(43) 01.08.2024
(72) BRADLEY, Samuel J; HANEY, Edward James; LEITERT, Andrew John; SHEWALE, Pravin R
(74) WRAYS PTY LTD
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- (71) Xencor, Inc.
(11) AU-A-2024204760
(21) 2024204760 (22) 10.07.2024
(54) HETERODIMERIC ANTIBODIES THAT BIND CD3 AND TUMOR ANTIGENS
(51) Int. Cl.
C07K 16/28 (2006.01)
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C07K 16/30 (2006.01)
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(74) MINTER ELLISON

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(21) 2024204753 (22) 10.07.2024
(54) GEOHEAT HARVESTING ENHANCE-
MENT
(51) Int. Cl.
F24T 10/13 (2018.01)
F24T 10/00 (2018.01)
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(62) 2022370058
(72) MONCARZ, Piotr D.;
CHANDRASEKHAR, Sharat Vish-
wanath; SURYANARAYANA,
Poodipeddi V.
(74) Pizzeyes Patent and Trade Mark Attor-
neys Pty Ltd

(71) XING POWER INC.
(11) AU-A-2024204829
(21) 2024204829 (22) 12.07.2024
(54) BATTERY MODULE AND BATTERY
SYSTEM
(51) Int. Cl.
H01M 10/6568 (2014.01)
H01M 10/613 (2014.01)
H01M 50/258 (2021.01)
H01M 50/262 (2021.01)
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(72) Lee, Hung-Chi; Tu, Kai-Hsiang; Huang,
De-Shiuan; Huang, Yu-Chieh; Su,
Keng-Ta
(74) LAMINAR IP PTY LTD

(71) Zimmer, Inc.
(11) AU-A-2024200118
(21) 2024200118 (22) 09.01.2024
(54) FEMORAL TRIAL HEAD
(51) Int. Cl.
A61F 2/46 (2006.01)
A61F 2/36 (2006.01)
(31) 63/439,233 (32) 16.01.23 (33) US
(43) 01.08.2024
(72) Leonard, Tory
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Zinniatek Limited
(11) AU-A-2024204783
(21) 2024204783 (22) 11.07.2024
(54) A ROOF, SIDING, OR CLADDING,
OR RIDGE OR HIP MEMBER FOR A
ROOF
(51) Int. Cl.
E04D 1/30 (2006.01)
E04D 1/36 (2006.01)
F24F 7/02 (2006.01)
(43) 01.08.2024
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(72) ROSARIA, Justin Jason; HAYNES, An-
drew Leo
(74) AJ PARK

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2023200260	UNIQCO-IP PTY LTD	2024204753	XGS ENERGY, INC.
2023200359	Joy Global Underground Mining LLC	2024204754	Schneider Electric (Australia) Pty Limited
2023200795	Anbio Biotechnology Limited; WANG, J.	2024204755	Bayer Healthcare LLC
2023200796	Anbio Biotechnology Limited; WANG, J.	2024204758	Highlight Therapeutics, S.L.
2023202909	Shenzhen Aiper Intelligent Co., Ltd.	2024204760	Xencor, Inc.
2023202910	Shenzhen Aiper Intelligent Co., Ltd.	2024204761	The Board of Regents of the University of Texas System
2023203389	Getac Technology Corporation	2024204763	Body Vision Medical Ltd.
2023203971	Shenzhen Aiper Intelligent Co., Ltd.	2024204765	TRIAGENICS, INC.
2023204295	Joy Global Underground Mining LLC	2024204767	SHAHEEN INNOVATIONS HOLDING LIMITED
2023204706	Getac Technology Corporation	2024204771	Global Blue SA
2023258346	The Boeing Company	2024204772	Huawei Technologies Co., Ltd.
2023270191	Sungrow Power Supply (Nanjing) Co., Ltd	2024204775	Abbott Diabetes Care Inc.
2023270212	Adobe Inc.	2024204777	TransMedics, Inc.
2023274189	Phoenix Steel Sales Pty Ltd	2024204779	Takeda Pharmaceutical Company Limited
2023282189	Globerize, Inc.	2024204780	Kelly Slater Wave Company, LLC
2023282223	L3Harris Technologies, Inc.	2024204781	ConocoPhillips Company
2023282258	Panduit Corp.	2024204783	Zinniatek Limited
2023285728	Schneider Electric Industries SAS	2024204784	Encore Medical, LP DBA DJO Surgical
2023285745	James Hardie Technology Limited	2024204785	Sigilon Therapeutics, Inc.
2023285766	SCALEOP OÜ	2024204793	Angel Group Co., Ltd.
2023285797	Kingsway Enterprises (UK) Limited	2024204794	Dexlevo Inc.
2023327767	LEPRINO FOODS COMPANY	2024204802	Inguran, LLC
2023387765	LG ELECTRONICS INC.	2024204808	McCain Foods Limited
2024200027	ABUS August Bremicker Söhne KG	2024204809	McCain Foods Limited
2024200031	Ford Global Technologies, LLC	2024204810	McCain Foods Limited
2024200053	Georg Fischer Rohrleitungssysteme AG	2024204812	Angel Group Co., Ltd.
2024200118	Zimmer, Inc.	2024204813	Novel Microdevices, Inc.
2024200141	Whirlpool Corporation	2024204814	Mybiotics Pharma Ltd.
2024200144	PRYSMIAN S.P.A.	2024204815	Hamex Fuel Cell Pvt Ltd.
2024200145	Swan Hill Engineering Pty Ltd	2024204818	Karyopharm Therapeutics Inc.
2024200156	ECHOSENS	2024204819	Angel Group Co., Ltd.
2024200160	Swan Hill Engineering Pty Ltd	2024204820	FORD, S.
2024200163	Whirlpool Corporation	2024204821	Topelia Aust Limited
2024200175	Techtronic Cordless GP	2024204823	Amicus Therapeutics, Inc.
2024200235	Rodriguez, R.	2024204825	Amsted Rail Company, Inc.
2024200286	CI Surfboards, LLC	2024204826	Blackhawk Network, Inc.
2024200306	VelocityEHS Holdings, Inc.	2024204827	Aurea Software FZ-LLC
2024200308	Soflex Furniture Co Ltd	2024204828	Aristocrat Technologies Australia Pty Limited
2024200317	Mahindra & Mahindra Limited	2024204829	XING POWER INC.
2024200334	CNH Industrial Harbin Machinery Co., Ltd.; CNH Industrial America LLC	2024204831	The Council of The Queensland Institute of Medical Research
2024201614	Gregg Drilling, LLC	2024204832	DRW Technologies, LLC
2024203182	Sangamo Therapeutics, Inc.	2024204833	Société des Produits Nestlé S.A.
2024203289	Millennium Pharmaceuticals, Inc.	2024204834	PrisymID Limited
2024203384	Amgen Research (Munich) GmbH	2024204838	Guangdong Aiko Solar Energy Technology Co., Ltd.
2024203387	Precision BioSciences, Inc.	2024204845	Trina Solar Co., Ltd.
2024203407	Commonwealth Scientific and Industrial Research Organisation	2024204847	F. HOFFMANN-LA ROCHE AG
2024203881	Christopher Vandecar	2024204849	SELC Ireland Ltd.
2024204004	Sanofi Biotechnology	2024204850	Selecta Biosciences, Inc.
2024204325	LOMBARDI THOMAS, L.; THOMAS, B.	2024204851	Selecta Biosciences, Inc.
2024204645	Regeneron Pharmaceuticals, Inc.	2024204853	Slingshot Haulage Pty Ltd
2024204663	Seres Therapeutics, Inc.	2024204855	Miles, S.
2024204735	DAIKIN INDUSTRIES, LTD.	2024204857	Joy Global Surface Mining Inc
2024204736	James W. Schleiffarth	2024204859	Cytokinetics, Inc.
2024204740	TELEFLEX MEDICAL INCORPORATED	2024204860	ResMed Asia Pte. Ltd.
2024204741	Teleflex Medical Incorporated	2024204861	Ignis Technologies Pty Ltd
2024204742	LG ELECTRONICS INC.	2024204862	Washington University
2024204745	Great Plains Manufacturing, Inc.	2024204864	Trina Solar Co., Ltd.
2024204746	Hera Health Solutions Inc.	2024204866	BASF SE
2024204747	BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD.	2024204867	Jaram Products Pty Ltd
2024204748	BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD.	2024204869	AI21 Labs
2024204749	Alcon Inc.	2024204870	Bristol-Myers Squibb Company
		2024204878	Mountain Top (Denmark) ApS
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2024204893	President and Fellows of Harvard College; BASF SE
2024204894	CommScope Technologies LLC; CommScope Connectivity Belgium BVBA; CommScope Connectivity UK Limited
2024204895	Hollister Incorporated
2024204899	Grip Holdings LLC
2024204900	ResMed Sensor Technologies Limited
2024204901	Igin Smart Hygiene Ltd
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2024204903	Bradley, C.
2024204904	WAVE LIFE SCIENCES LTD.
2024204906	Acerta Pharma B.V.
2024204907	Alcon, Inc.; The Regents of the University of Colorado, a body corporate
2024204910	F. & J. Attard & Sons Pty. Limited
2024204912	Nu Flow Technologies 2000 Inc.
2024204913	AstraZeneca AB
2024204915	LivePerson, Inc.
2024204916	LuxCreo (Beijing) Inc.

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(This list may contain multiple listings of a patent where there are multiple patentees for that patent.)

-
- (71) Xtract360 Ltd
 (11) AU-A-2018102258
 (21) 2018102258 (22) 16.11.2018
 (54) Collision evaluation
 (51) Int. Cl.
 G07C 5/08 (2006.01)
 G06N 3/008 (2023.01)
 G06N 5/04 (2023.01)
 G06N 20/00 (2019.01)
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 (45) 01.08.2024
 (72) BOURKE, Cillian; FLANAGAN, Michael;
 HITCHEN, Joseph
 (74) FPA Patent Attorneys Pty Ltd

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- . (**) Title not given

<p>(71) 21 ENTERTAINMENT LLC (11) AU-A-2022437244 (21) 2022437244 (22) 06.10.2022 (54) ELECTRONIC PUBLISHING PLAT- FORM (51) Int. Cl. G06F 40/106 (2020.01) G06F 3/0483 (2013.01) G06F 40/186 (2020.01) G06F 40/197 (2020.01) G06T 13/80 (2011.01) (87) WO2023/146685 (31) 17/584,305 (32) 25.01.22 (33) US (43) 03.08.2023 (72) SMITH, Mario, C. (74) RnB IP Pty Ltd</p>	<p>(43) 10.08.2023 (72) SCHULZ, Dirk; GAMER, Thomas; BAUER, Philipp; MENDOZA, Francisco (74) Griffith Hack</p>	<p>(54) POLYPEPTIDES COMPRISING IM- MUNOGLOBULIN SINGLE VARIABLE DOMAINS TARGETING TCRαβ, CD33 AND CD123 (51) Int. Cl. C07K 16/28 (2006.01) A61P 35/02 (2006.01) C07K 16/18 (2006.01) (87) WO2023/111266 (31) 21306822.4 (32) 17.12.21 (33) EP 22305477.6 07.04.22 EP (43) 22.06.2023 (72) BONNEVAUX, Helène; DULLAERS, Melissa; ROOBROUCK, Annelies; STAELENS, Stephanie; VAN HOO- RICK, Diane; VERHELST, Judith (74) Griffith Hack</p>
<p>(71) A.R.C. S.R.L. (11) AU-A-2023211059 (21) 2023211059 (22) 26.01.2023 (54) HYDROGEN-POWERED COOKER BURNER (51) Int. Cl. F23D 14/20 (2006.01) F23K 5/00 (2006.01) (87) WO2023/144741 (31) 102022000001508 (32) 28.01.22 (33) IT (43) 03.08.2023 (72) GASPARINI, Loris (74) Patent Attorney Services</p>	<p>(71) ABBVIE INC. (11) AU-A-2023237882 (21) 2023237882 (22) 21.03.2023 (54) PYRIMIDINES FOR DEGRADING BRUTON'S TYROSINE KINASE (51) Int. Cl. A61P 35/02 (2006.01) A61K 31/506 (2006.01) C07D 413/14 (2006.01) (87) WO2023/183811 (31) 63/322,505 (32) 22.03.22 (33) US (43) 28.09.2023 (72) BIAN, Zhiguo; BURKE, Jason, P.; JIA, Zhaozhong, J.; JIANG, Xingyu; KATCHER, Matthew, H.; MALI, Ven- kat, Reddy; MARIN, Violeta, L.; NOEY, Elizabeth, L.; OKANO, Akinori; RIVKIN, Alexey, A.; SCHOLZ, Spencer, O.; WOLLER, Kevin, R.; ZHAO, Xianrui; ADAMS, Ashley, M.; BIANNIC, Ber- enger; MORTEZAEI, Shahab; PAY- ETTE, Joshua, N.; ZABLOCKI, Jeffery, A. (74) Spruson & Ferguson</p>	<p>(71) ACCORA LIMITED (11) AU-A-2022410532 (21) 2022410532 (22) 16.12.2022 (54) BED SIDE RAIL ASSEMBLY (51) Int. Cl. A47C 21/08 (2006.01) A47D 7/02 (2006.01) A61G 7/05 (2006.01) (87) WO2023/111585 (31) 2118475.9 (32) 17.12.21 (33) GB (43) 22.06.2023 (72) PHILLIPS, Charles (74) Murray Trento & Associates Pty Ltd</p>
<p>(71) AARDVARK THERAPEUTICS, INC. (11) AU-A-2023211592 (21) 2023211592 (22) 26.01.2023 (54) LIQUID RESIN EXTENDED-RELEASE ORAL NALTREXONE FORMULATION FOR TREATING AUTISM-RELATED DISORDERS (51) Int. Cl. A61K 31/12 (2006.01) A61K 31/485 (2006.01) A61K 31/137 (2006.01) (87) WO2023/146983 (31) 63/303,285 (32) 26.01.22 (33) US (43) 03.08.2023 (72) LEE, Tien-Li; ZHENG, Zhenhuan; TU, Yu-Hsing (74) FB Rice Pty Ltd</p>	<p>(71) ABIVAX (11) AU-A-2023207795 (21) 2023207795 (22) 12.01.2023 (54) COMBINATION OF 8-CHLORO-N-(4- (TRIFLUOROMETHOXY)PHENYL)QUINOLIN- AMINE AND ITS DERIVATIVES WITH A 51P RECEPTOR MODULATOR (51) Int. Cl. A61K 31/405 (2006.01) A61K 31/47 (2006.01) A61K 31/706 (2006.01) A61P 1/00 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 13/00 (2006.01) A61P 19/00 (2006.01) A61P 21/00 (2006.01) A61P 25/00 (2006.01) A61P 27/00 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) (87) WO2023/135207 (31) 22305029.5 (32) 13.01.22 (33) EP (43) 20.07.2023 (72) SCHERRER, Didier; POULETTY, Phil- ippe; TAZI, Jamal; GARCEL, Aude (74) AJ PARK</p>	<p>(71) AERONES ENGINEERING, SIA (11) AU-A-2023228399 (21) 2023228399 (22) 02.03.2023 (54) A METHOD FOR WIND TURBINE BLADE MECHANICAL DE-ICING (51) Int. Cl. F03D 80/40 (2016.01) (87) WO2023/166458 (31) 63/315,543 (32) 02.03.22 (33) US (43) 07.09.2023 (72) PUTRAMS, Janis (74) GLMR</p>
<p>(71) ABB SCHWEIZ AG (11) AU-A-2022439192 (21) 2022439192 (22) 07.02.2022 (54) LOCATION-BASED OPERATING OF DEVICES IN AN INDUSTRIAL PLANT (51) Int. Cl. B25J 9/16 (2006.01) G05B 19/4061 (2006.01) (87) WO2023/147883</p>	<p>(71) ABLYNX NV; SANOFI (11) AU-A-2022409733 (21) 2022409733 (22) 16.12.2022</p>	<p>(71) AGV DISCOVERY; INSERM (INSTI- TUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE); CENTRE NATIONAL DE LA RECHER- CHE SCIENTIFIQUE; UNIVERSITE DE MONTPELLIER (11) AU-A-2023207276 (21) 2023207276 (22) 13.01.2023 (54) AZAINDOLE DERIVATIVES AND THEIR USE AS ERK KINASE INHIBIT- ORS (51) Int. Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) A61K 31/5377 (2006.01)</p>

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A61P 35/00 (2006.01)
C07D 213/64 (2006.01)
C07F 5/02 (2006.01)
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(72) BORIES, Cédric; MATHIEU, Loïc;
 GUICHOU, Jean-François; GELIN,
 Muriel; BIECHY, Aurélien
(74) Griffith Hack
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(54) ROBOTIC IMAGING SYSTEM WITH
 ORBITAL SCANNING MODE
(51) Int. Cl.
A61B 3/13 (2006.01)
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(72) TERRY, Patrick; TRIPATHI, Ashok Bur-
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 SLUGS
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F42B 12/02 (2006.01)
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 POLYNUCLEOTIDE SYNTHESIS AND
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C07K 19/00 (2006.01)
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C12P 19/34 (2006.01)
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(31) 63/290,310 **(32)** 16.12.21 **(33)** US
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(54) LARGE STORAGE CAPACITY STOR-
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B65H 29/00 (2006.01)
B65H 29/56 (2006.01)
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A61K 9/12 (2006.01)
A61K 9/00 (2006.01)
A61K 45/06 (2006.01)
A61K 47/08 (2006.01)
A61K 47/10 (2017.01)
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(31) 63/294,178 **(32)** 28.12.21 **(33)** US
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A61K 9/107 (2006.01)
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A61P 1/00 (2006.01)
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 MOURS AND NEUROBLASTOMAS
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A61K 31/336 (2006.01)
A61K 31/495 (2006.01)
A61K 31/498 (2006.01)
A61K 41/00 (2020.01)
A61K 45/06 (2006.01)
A61P 35/00 (2006.01)
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(72) HAMERLIK, Petra
(74) PHILLIPS ORMONDE FITZPATRICK
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 DISEASE
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A61K 35/761 (2015.01)
A61K 48/00 (2006.01)
C12N 15/861 (2006.01)
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 Wen; NARULA, Jatin; PAN, Clark
 Qun; SOMANATHAN, Suryanarayan;
 SOUZA, David Wayne; TABET, Ricar-
 dos
(74) PHILLIPS ORMONDE FITZPATRICK
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- (71)** AVERTECH, INC.
(11) AU-A-2022425279
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(54) CONVERTIBLE METAL BACKINGS
 AND RELATED METHODS
(51) Int. Cl.
A47G 1/17 (2006.01)
A47B 97/00 (2006.01)
(87) WO2023/129358
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 17/651,760 18.02.22 US
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(72) AVERY, Neal H.
(74) FB Rice Pty Ltd
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(11) AU-A-2023223648
(21) 2023223648 **(22)** 22.02.2023
(54) PROCESSABLE AND PRINTABLE
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 FORMED THEREFROM
(51) Int. Cl.
C08J 5/18 (2006.01)
B32B 27/08 (2006.01)

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E21B 41/00 (2006.01)
E21B 17/02 (2006.01)
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(43) 27.07.2023
(72) YAKELEY, Sean
(74) Patent Attorney Services
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- (71) BARTRACK, INC.
(11) AU-A-2023212289
(21) 2023212289 (22) 26.01.2023
(54) MONITORING EQUILIBRIUM AND DISPENSEMENT OF A FLUID DISPENSEMENT SYSTEM TO IMPROVE QUALITY AND EFFICIENCY
(51) Int. Cl.
B67D 1/08 (2006.01)
A47J 31/58 (2006.01)
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(72) DANIELSON, Brett; HOBAR, Grant; ATHERTON, David
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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(51) Int. Cl.
H01M 4/90 (2006.01)
C25B 1/00 (2021.01)
C25B 1/04 (2021.01)
C25B 9/23 (2021.01)
C25B 11/052 (2021.01)
C25B 11/075 (2021.01)
C25B 11/077 (2021.01)
C25B 11/081 (2021.01)
C25B 11/093 (2021.01)
H01M 4/88 (2006.01)
H01M 8/10 (2016.01)
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(11) AU-A-2023224241
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(54) SOFT GEL CAPSULE PREPARATIONS
(51) Int. Cl.
A61K 9/48 (2006.01)
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(72) BARROSO, Aude; IGLESIAS, Maria Elena; SANZ, Maria del Pilar; ALVAREZ, Blanca; PRIOR, Alberto; ZUMETA PEREZ, Javier
(74) Griffith Hack
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- (71) BEAVER-VISITEC INTERNATIONAL, INC.
(11) AU-A-2023208753
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(54) INTRAOCULAR LENS DELIVERY SYSTEM
(51) Int. Cl.
A61F 2/16 (2006.01)
A61F 9/007 (2006.01)
A61M 31/00 (2006.01)
A61M 5/24 (2006.01)
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(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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(51) Int. Cl.
G07F 17/00 (2006.01)
A47B 47/00 (2006.01)
A47B 57/00 (2006.01)
G07F 9/10 (2006.01)
G07F 11/00 (2006.01)
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(51) Int. Cl.
C07D 307/68 (2006.01)
A61K 31/341 (2006.01)
A61P 17/08 (2006.01)
A61P 17/10 (2006.01)
C07D 233/90 (2006.01)
C07D 263/34 (2006.01)
C07D 277/32 (2006.01)
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(74) Spruson & Ferguson
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(54) VIDEO PROCESSING METHOD AND APPARATUS, AND NONVOLATILE COMPUTER READABLE STORAGE MEDIUM
(51) Int. Cl.
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A61K 38/00 (2006.01)
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C07D 403/14 (2006.01)
A61K 31/4245 (2006.01)
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B01F 23/213 (2022.01)
A62D 3/38 (2007.01)
B01F 35/21 (2022.01)
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C01B 32/50 (2017.01)
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(51) Int. Cl.
C07K 16/46 (2006.01)
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A61B 8/00 (2006.01)
A61N 5/02 (2006.01)
A61N 7/02 (2006.01)
C12N 13/00 (2006.01)
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G01N 33/58 (2006.01)
C12Q 1/44 (2006.01)
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C12N 15/113 (2010.01)
A61K 31/7115 (2006.01)
A61K 31/712 (2006.01)
A61K 31/7125 (2006.01)
A61P 25/00 (2006.01)
A61K 31/713 (2006.01)
C12N 15/11 (2006.01)
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G01N 15/10 (2006.01)
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G06N 3/02 (2006.01)
G06N 5/01 (2023.01)
G06N 20/20 (2019.01)
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E04B 9/06 (2006.01)
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A61K 31/404 (2006.01)
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A61K 31/445 (2006.01)
A61K 31/55 (2006.01)
C07D 209/04 (2006.01)
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B66C 1/28 (2006.01)
B66C 1/62 (2006.01)
B66F 9/075 (2006.01)
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G06Q 10/0637 (2023.01)
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(74) Patent Attorney Services
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A61N 1/39 (2006.01)
A61B 5/332 (2021.01)
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A61K 39/395 (2006.01)
A61P 35/00 (2006.01)
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(74) Pizzseys Patent and Trade Mark Attorneys Pty Ltd
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H01M 50/207 (2021.01)
H01M 50/20 (2021.01)
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H01M 50/548 (2021.01)
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C07D 487/04 (2006.01)
A61K 31/519 (2006.01)
A61P 11/00 (2006.01)
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C07D 487/04 (2006.01)
A61K 31/519 (2006.01)
A61P 11/00 (2006.01)
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F17C 3/00 (2006.01)
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A47K 11/02 (2006.01)
F23G 5/08 (2006.01)
F23G 5/44 (2006.01)
F23N 5/24 (2006.01)
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C02F 1/28 (2023.01)
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C02F 101/20 (2006.01)
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A61K 8/19 (2006.01)
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C12Q 1/02 (2006.01)
C12Q 1/04 (2006.01)
C12Q 1/06 (2006.01)
C12Q 1/689 (2018.01)
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B25J 9/16 (2006.01)
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B26D 7/26 (2006.01)
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B22F 9/04 (2006.01)
B22F 1/052 (2022.01)
B22F 1/068 (2022.01)
C23C 24/04 (2006.01)
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A01N 43/60 (2006.01)
A01N 43/90 (2006.01)
A01P 3/00 (2006.01)
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A01N 43/90 (2006.01)
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B01L 3/00 (2006.01)
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G16H 50/20 (2018.01)
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B31F 1/00 (2006.01)
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C07D 307/78 (2006.01)
A61K 31/7048 (2006.01)
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C07K 19/00 (2006.01)
A61K 39/395 (2006.01)
A61K 47/68 (2017.01)
A61K 49/00 (2006.01)
A61P 35/00 (2006.01)
C07K 14/00 (2006.01)
C07K 14/52 (2006.01)
C07K 16/00 (2006.01)
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G06F 8/30 (2018.01)
G06N 3/02 (2006.01)
G06N 3/0455 (2023.01)
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G01N 35/10 (2006.01)
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- (74) AJ PARK
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G01N 35/10 (2006.01)
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 (11) AU-A-2023211063
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B65G 47/54 (2006.01)
B65G 47/64 (2006.01)
B65G 13/07 (2006.01)
B65G 13/10 (2006.01)
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A61K 39/02 (2006.01)
A61K 39/00 (2006.01)
A61K 39/40 (2006.01)
A61P 31/04 (2006.01)
C07K 5/113 (2006.01)
C12N 9/52 (2006.01)
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A61K 39/02 (2006.01)
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A61P 31/04 (2006.01)
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A61K 39/02 (2006.01)
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F16L 23/00 (2006.01)
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A61B 3/14 (2006.01)
A61B 5/297 (2021.01)
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C08J 3/24 (2006.01)
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C07D 303/38 (2006.01)
A61K 31/336 (2006.01)
A61P 25/00 (2006.01)
C07D 405/12 (2006.01)
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G06F 3/01 (2006.01)
H01F 7/20 (2006.01)
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C09D 7/65 (2018.01)
C09D 133/04 (2006.01)
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A61K 9/20 (2006.01)
A61K 9/24 (2006.01)
A61K 9/28 (2006.01)
A61K 31/472 (2006.01)
A61K 31/5513 (2006.01)
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D21H 19/04 (2006.01)
B32B 15/12 (2006.01)
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 COMPOSITION, COMPRISING
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(51) Int. Cl.
C04B 24/16 (2006.01)
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C04B 24/26 (2006.01)
C04B 28/08 (2006.01)
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A61M 25/00 (2006.01)
A61M 25/06 (2006.01)
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F24C 15/20 (2006.01)
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A61K 51/04 (2006.01)
A61P 25/00 (2006.01)
C07K 16/18 (2006.01)
A61K 39/00 (2006.01)
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A47K 13/00 (2006.01)
B28B 1/00 (2006.01)
C08L 67/06 (2006.01)
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C25C 3/08 (2006.01)
C25C 3/12 (2006.01)
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F03D 13/10 (2016.01)
B66C 1/10 (2006.01)
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F03D 13/25 (2016.01)
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A61K 47/68 (2017.01)
A61K 51/10 (2006.01)
A61P 35/00 (2006.01)
C07K 16/18 (2006.01)
C07K 16/30 (2006.01)
C12N 9/00 (2006.01)
C12P 21/02 (2006.01)
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H02J 3/28 (2006.01)
H01M 8/00 (2016.01)
H01M 16/00 (2006.01)
H02J 3/01 (2006.01)
H02J 3/14 (2006.01)
H02J 3/38 (2006.01)
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B01D 61/50 (2006.01)
C02F 1/469 (2023.01)
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A61K 31/4985 (2006.01)
A61K 31/519 (2006.01)
A61K 31/5383 (2006.01)
A61P 11/06 (2006.01)
A61P 35/00 (2006.01)
C07D 207/337 (2006.01)
C07D 209/30 (2006.01)
C07D 213/55 (2006.01)
C07D 215/18 (2006.01)
C07D 231/12 (2006.01)
C07D 233/64 (2006.01)
C07D 235/06 (2006.01)
C07D 241/12 (2006.01)
C07D 249/04 (2006.01)
C07D 263/32 (2006.01)
C07D 307/80 (2006.01)
C07D 307/82 (2006.01)
C07D 333/60 (2006.01)
C07D 401/06 (2006.01)
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A47L 15/42 (2006.01)
A47L 15/00 (2006.01)
D06F 37/26 (2006.01)
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 (54) FOOD SUPPLEMENT
 (51) Int. Cl.
A23L 33/135 (2016.01)
A61P 25/24 (2006.01)
A61K 9/107 (2006.01)
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 (51) Int. Cl.
A61K 31/473 (2006.01)
A61K 9/28 (2006.01)
A61K 31/33 (2006.01)
A61K 45/06 (2006.01)
A61K 9/14 (2006.01)
A61K 9/48 (2006.01)
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H01M 4/86 (2006.01)
H01M 4/88 (2006.01)
H01M 12/06 (2006.01)

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G01V 1/16 (2006.01)
E02D 1/00 (2006.01)
G01N 33/24 (2006.01)
G01V 1/20 (2006.01)
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H04R 1/10 (2006.01)
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A46B 17/02 (2006.01)
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A23N 17/00 (2006.01)
A23P 30/20 (2016.01)
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A61P 29/00 (2006.01)
C07K 14/54 (2006.01)
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C08F 220/14 (2006.01)
C08F 220/28 (2006.01)
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A61L 27/06 (2006.01)
A61L 27/20 (2006.01)
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(74) Patent Attorney Services
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A61K 31/7105 (2006.01)
A61P 7/04 (2006.01)
(87) WO2023/122713

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(74) Griffith Hack
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F03G 4/00 (2006.01)
F24T 10/10 (2018.01)
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A61P 31/20 (2006.01)
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A61K 31/7105 (2006.01)
A61K 31/7115 (2006.01)
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F42D 1/08 (2006.01)
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H02J 3/24 (2006.01)
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H02M 1/32 (2007.01)
H02J 3/38 (2006.01)
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A61K 9/19 (2006.01)
A61K 38/47 (2006.01)
A61K 47/02 (2006.01)
A61K 47/12 (2006.01)
A61K 47/18 (2017.01)
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A61K 9/08 (2006.01)
A61K 9/00 (2006.01)
A61K 38/47 (2006.01)
A61K 47/02 (2006.01)
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A61K 47/22 (2006.01)
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A61K 47/68 (2017.01)
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C07K 16/18 (2006.01)
A61K 39/00 (2006.01)
C07K 14/47 (2006.01)
G01N 33/487 (2006.01)
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B65D 43/16 (2006.01)
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B65D 47/06 (2006.01)
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C09K 8/467 (2006.01)
C04B 28/04 (2006.01)
C04B 28/06 (2006.01)
C04B 28/24 (2006.01)
E21B 33/14 (2006.01)
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H04W 4/021 (2018.01)
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B01D 53/62 (2006.01)
C04B 18/00 (2006.01)
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B01D 53/62 (2006.01)
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C04B 20/02 (2006.01)
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(51) Int. Cl.
C07K 14/705 (2006.01)
C07K 19/00 (2006.01)
C12N 15/86 (2006.01)
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(51) Int. Cl.
E05D 3/02 (2006.01)
E05D 15/26 (2006.01)
E05D 15/40 (2006.01)
E05F 1/10 (2006.01)
E05F 1/12 (2006.01)
E05F 5/02 (2006.01)
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E05F 5/10 (2006.01)
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(31) 10 2022 101 401.0 (32) 21.01.22 (33) DE
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(51) Int. Cl.
E05D 3/02 (2006.01)
E05D 11/06 (2006.01)
E05D 15/26 (2006.01)
E05D 15/40 (2006.01)
E05F 1/12 (2006.01)
E05F 5/02 (2006.01)
E05F 5/10 (2006.01)
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(51) Int. Cl.
E05F 1/12 (2006.01)
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(21) 2022432802 (22) 28.06.2022
(54) FLOOR COVERING
(51) Int. Cl.
D05C 17/02 (2006.01)
A47G 27/02 (2006.01)
A47G 27/04 (2006.01)
B32B 5/06 (2006.01)
B32B 5/26 (2006.01)
B32B 7/12 (2006.01)
D06N 7/00 (2006.01)
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(21) 2023217068 (22) 09.02.2023
(54) PET FOOD COMPOSITIONS
(51) Int. Cl.
A23K 10/20 (2016.01)
A23K 10/22 (2016.01)
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A23K 10/35 (2016.01)
A23K 20/142 (2016.01)
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A23K 20/22 (2016.01)
A23K 20/24 (2016.01)
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A23K 50/40 (2016.01)
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(21) 2022420084 (22) 18.11.2022
(54) OSTEOSYNTHESIS IMPLEMENT, OSTEOSYNTHESIS SET, AND OSTEOSYNTHESIS MEMBER SET
(51) Int. Cl.
A61B 17/76 (2006.01)
A61B 17/72 (2006.01)
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(31) 2021-208193 (32) 22.12.21 (33) JP
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(74) FB Rice Pty Ltd
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(21) 2022430626 (22) 17.10.2022
(54) CODING CONFIGURATION METHOD AND APPARATUS
(51) Int. Cl.
H04L 1/00 (2006.01)
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(21) 2022430796 (22) 25.07.2022
(54) MULTI-LINK COMMUNICATION METHOD AND MULTI-LINK DEVICE
(51) Int. Cl.
H04W 28/04 (2009.01)
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- (71) HUAWEI TECHNOLOGIES CO., LTD.
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TRANSMITTING RANGING SIGNAL
IN UWB, AND READABLE STORAGE
MEDIUM
(51) Int. Cl.
H04W 4/029 (2018.01)
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NORTH CAROLINA AT CHAPEL HILL;
THE BOARD OF TRUSTEES OF THE
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VERSITY; THE REGENTS OF THE
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M.; SLOCUM, S.; SKINIOTIS, G.; BAR-
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A61K 31/33 (2006.01)
A61K 31/395 (2006.01)
A61K 31/40 (2006.01)
A61K 31/407 (2006.01)
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Carl-Mikael; DAEMGEN, Marc A.;
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B65D 5/32 (2006.01)
B65D 5/44 (2006.01)
B65D 5/46 (2006.01)
B65D 5/50 (2006.01)
G09F 3/20 (2006.01)
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C07H 1/08 (2006.01)
C12P 19/18 (2006.01)
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(74) FPA Patent Attorneys Pty Ltd
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C12P 19/18 (2006.01)
C12N 5/0775 (2010.01)
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C07D 277/54 (2006.01)
A61K 31/426 (2006.01)
A61P 31/22 (2006.01)
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C07D 498/12 (2006.01)
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 (74) Churchill Attorneys
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G01S 1/02 (2010.01)
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G01L 5/24 (2006.01)
B25B 13/50 (2006.01)
F16L 23/00 (2006.01)
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A01P 1/00 (2006.01)
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 (51) Int. Cl.
C12N 9/02 (2006.01)
C12N 15/63 (2006.01)
C12Q 1/26 (2006.01)
C07C 39/19 (2006.01)
C07D 311/58 (2006.01)
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E02F 9/02 (2006.01)
B62D 55/32 (2006.01)
B66C 3/00 (2006.01)
B66C 7/00 (2006.01)
B66C 23/00 (2006.01)
E02F 3/80 (2006.01)
E02F 3/96 (2006.01)
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G01N 27/00 (2006.01)
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 (74) Origin Patent and Trade Mark Attorneys

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 A61K 51/04 (2006.01)
 A61K 51/08 (2006.01)
 A61P 35/00 (2006.01)
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 (72) KOSSATZ, Susanne; WEBER, Wolfgang; RAUCH, Hartmut; MECKEL, Marian; ZHERNOSEKOV, Konstantin
 (74) Allens Patent & Trade Mark Attorneys

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 C12Q 1/6883 (2018.01)
 C12Q 1/6888 (2018.01)
 G06Q 50/02 (2012.01)
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 (72) RAYMOND, Randall; BUCHANAN, Justin
 (74) Knightsbridge Patent Attorneys

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 A43B 5/02 (2006.01)
 A43B 21/26 (2006.01)
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 C12N 9/12 (2006.01)
 C07K 16/28 (2006.01)
 C12N 15/861 (2006.01)
 C12N 15/863 (2006.01)
 A61K 39/00 (2006.01)
 A61P 35/00 (2006.01)
 C07K 19/00 (2006.01)
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 A61K 39/00 (2006.01)
 A61K 39/395 (2006.01)
 A61P 13/08 (2006.01)
 C12N 15/861 (2006.01)
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 A61P 37/06 (2006.01)
 C07K 16/24 (2006.01)
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 (51) Int. Cl.
 C07D 487/04 (2006.01)
 A61K 31/519 (2006.01)
 A61K 31/5386 (2006.01)
 A61P 35/00 (2006.01)
 C07D 498/08 (2006.01)
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 (72) XIAO, Fei; WENG, Yali; WU, Meng
 (74) Halfords IP

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 A61H 23/04 (2006.01)
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 (74) WRAYS PTY LTD

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 (11) AU-A-2023223660
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 (54) A PROCESS FOR IMPROVING POLYPEPTIDE EXPRESSION IN MAMMALIAN CELL CULTURE
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 C12P 21/00 (2006.01)
 A61K 39/395 (2006.01)
 C12N 5/00 (2006.01)
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 (74) FB Rice Pty Ltd

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 (54) SEE THROUGH DISPLAY
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 G02B 27/01 (2006.01)
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 G02B 26/10 (2006.01)
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 G06F 3/01 (2006.01)
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H01M 8/18 (2006.01)
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- (71) KEYTHERA (SUZHOU) BIO-PHARMACEUTICALS CO., LIMITED
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(51) Int. Cl.
C07D 471/04 (2006.01)
A61K 31/4375 (2006.01)
A61P 35/00 (2006.01)
C07D 401/14 (2006.01)
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(72) MATSUMURA Yukinori
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B60L 58/40 (2019.01)
H01M 8/00 (2016.01)
H01M 8/043 (2016.01)
H01M 8/04313 (2016.01)
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H01M 8/04694 (2016.01)
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A61H 11/00 (2006.01)
A61H 23/02 (2006.01)
F03G 7/06 (2006.01)
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B22D 41/54 (2006.01)
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G06F 16/95 (2019.01)
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A62C 3/16 (2006.01)
A62C 35/02 (2006.01)

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A62C 99/00 (2010.01)
H01M 10/48 (2006.01)
H01M 50/251 (2021.01)
H01M 50/691 (2021.01)
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H01M 10/627 (2014.01)
H01M 10/6551 (2014.01)
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A01G 25/09 (2006.01)
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F16L 3/205 (2006.01)
F16L 3/215 (2006.01)
F16L 27/02 (2006.01)
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 C12Q 1/6806 (2018.01)
 C12N 15/10 (2006.01)
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 A63B 24/00 (2006.01)
 A63B 69/38 (2006.01)
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 A61B 34/32 (2016.01)
 A61B 17/14 (2006.01)
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 A61K 33/00 (2006.01)
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 A61K 39/00 (2006.01)
 A23K 10/00 (2016.01)
 A61K 39/012 (2006.01)
 A61K 47/00 (2006.01)
 C07H 21/04 (2006.01)
 C07K 14/00 (2006.01)
 C12N 5/00 (2006.01)
 C12N 15/82 (2006.01)
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 A61B 17/70 (2006.01)
 A61B 34/10 (2016.01)
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C07K 16/30 (2006.01)
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E02F 9/28 (2006.01)
B22C 9/08 (2006.01)
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B22D 31/00 (2006.01)
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SORIA, Francisco
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C12Q 1/6804 (2018.01)
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C09C 1/44 (2006.01)
C01B 32/05 (2017.01)
C01B 33/02 (2006.01)
C08K 3/34 (2006.01)
C23F 14/00 (2006.01)
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G01R 19/155 (2006.01)
G01R 31/54 (2020.01)
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COMPOUND AND USE THEREOF
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C07D 513/04 (2006.01)
A61K 31/428 (2006.01)
A61K 31/429 (2006.01)
A61P 35/00 (2006.01)
C07D 417/12 (2006.01)
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A01N 25/12 (2006.01)
A01N 25/08 (2006.01)
A01N 25/30 (2006.01)
A01N 41/02 (2006.01)
A01N 43/56 (2006.01)
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A61N 1/36 (2006.01)
A61B 5/00 (2006.01)
A61B 5/37 (2021.01)
A61B 5/374 (2021.01)
A61B 5/383 (2021.01)
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F02D 19/06 (2006.01)
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H02K 1/276 (2022.01)
H02K 21/02 (2006.01)
H02K 21/14 (2006.01)
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C12N 5/10 (2006.01)
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C07D 403/04 (2006.01)
A61K 31/497 (2006.01)
A61P 21/00 (2006.01)
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F01D 5/04 (2006.01)
F01K 7/34 (2006.01)
F01K 11/00 (2006.01)
F02C 1/10 (2006.01)
F04D 5/00 (2006.01)
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C09D 11/101 (2014.01)
B33Y 70/00 (2020.01)
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G10L 19/16 (2013.01)
G10L 19/008 (2013.01)
H04S 3/00 (2006.01)
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A61K 31/415 (2006.01)
A61P 3/04 (2006.01)
A61P 3/06 (2006.01)
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C07K 5/09 (2006.01)
C07K 5/11 (2006.01)
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B65G 1/04 (2006.01)
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 A23D 7/005 (2006.01)
 A23K 20/158 (2016.01)
 A23K 20/28 (2016.01)
 A23K 50/30 (2016.01)
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 B63B 22/04 (2006.01)
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 C01F 11/18 (2006.01)
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 G06F 16/332 (2019.01)
 G06F 40/20 (2020.01)
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 A61C 15/04 (2006.01)
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 A61K 31/4965 (2006.01)
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 A47B 49/00 (2006.01)
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 A45C 11/04 (2006.01)
 G01M 11/00 (2006.01)
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 A61C 1/07 (2006.01)
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 G06Q 10/08 (2023.01)
 G06F 16/51 (2019.01)
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 C22B 26/12 (2006.01)
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 C12N 5/02 (2006.01)
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 C12Q 1/02 (2006.01)
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 A61K 9/16 (2006.01)
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 A61K 31/365 (2006.01)
 A61K 47/22 (2006.01)
 A61K 47/38 (2006.01)
 A61P 43/00 (2006.01)
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 C07D 471/04 (2006.01)
 A61K 31/437 (2006.01)
 A61P 35/00 (2006.01)
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 A61K 9/51 (2006.01)
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 (54) COMPOUNDS
 (51) Int. Cl.
 C07D 471/04 (2006.01)
 A61K 31/407 (2006.01)
 A61K 31/416 (2006.01)
 A61K 31/423 (2006.01)
 A61P 25/00 (2006.01)
 A61P 25/18 (2006.01)
 A61P 25/24 (2006.01)
 C07D 231/56 (2006.01)
 C07D 261/20 (2006.01)
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 C12N 15/113 (2010.01)

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C08G 77/62 (2006.01)
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D06F 58/24 (2006.01)
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A61K 31/382 (2006.01)
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A61K 31/519 (2006.01)
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C07K 16/28 (2006.01)
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C01G 53/00 (2006.01)
H01M 4/02 (2006.01)
H01M 4/505 (2010.01)
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G06V 10/44 (2022.01)
G06V 10/82 (2022.01)
G06V 20/69 (2022.01)
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G08G 1/00 (2006.01)
G06V 20/54 (2022.01)
H04L 67/12 (2022.01)
G07C 5/08 (2006.01)
G08G 1/01 (2006.01)
G08G 1/017 (2006.01)
G08G 1/04 (2006.01)
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 A61P 31/04 (2006.01)
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 F21S 8/08 (2006.01)
 F21V 23/04 (2006.01)
 F21V 23/06 (2006.01)
 F21V 31/00 (2006.01)
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 A61K 31/713 (2006.01)
 C12N 15/113 (2010.01)
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 B01D 15/08 (2006.01)
 A61K 35/16 (2015.01)
 B01D 15/16 (2006.01)
 B01D 15/22 (2006.01)
 C07K 1/16 (2006.01)
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 G01N 33/50 (2006.01)
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 A61P 35/00 (2006.01)
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 (54) ANTI-MESOTHELIN NANOBODY CHIMERIC ANTIGEN RECEPTOR AND USE THEREOF
 (51) Int. Cl.
 C12N 5/10 (2006.01)
 A61K 39/395 (2006.01)
 A61P 35/00 (2006.01)
 C07K 16/28 (2006.01)
 C12N 15/13 (2006.01)
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 A62C 3/06 (2006.01)
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 E21B 47/11 (2012.01)
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 G01M 3/04 (2006.01)
 G01M 3/20 (2006.01)
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 C12N 5/02 (2006.01)
 A61K 39/395 (2006.01)
 C07H 21/04 (2006.01)
 C07K 16/30 (2006.01)
 C07K 16/46 (2006.01)
 G01N 33/574 (2006.01)
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 F24S 30/425 (2018.01)
 F16H 27/06 (2006.01)
 H02S 20/32 (2014.01)
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 H03K 19/00 (2006.01)
 B06B 1/02 (2006.01)
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(54) CLASS OF QUINOLINE COM-POUNDS, PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION AND USE THEREOF
(51) Int. Cl.
C07D 403/12 (2006.01)
A61K 31/53 (2006.01)
A61P 1/16 (2006.01)
A61P 3/00 (2006.01)
A61P 3/04 (2006.01)
A61P 3/06 (2006.01)
A61P 3/10 (2006.01)
A61P 5/14 (2006.01)
A61P 9/00 (2006.01)
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A61P 9/12 (2006.01)
A61P 35/00 (2006.01)
C07D 215/02 (2006.01)
C07D 253/06 (2006.01)
C07D 253/065 (2006.01)
C07D 253/07 (2006.01)
C07D 253/075 (2006.01)
C07D 401/12 (2006.01)
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C12N 15/867 (2006.01)
A61K 39/00 (2006.01)
A61P 35/00 (2006.01)
C12N 5/10 (2006.01)
C12N 15/12 (2006.01)
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B82Y 30/00 (2011.01)
B33Y 70/00 (2020.01)
B82Y 40/00 (2011.01)
C01B 32/19 (2017.01)
C01B 32/194 (2017.01)
C01B 32/196 (2017.01)
C08K 3/04 (2006.01)
C09K 5/10 (2006.01)
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H04W 12/10 (2021.01)
G06Q 20/10 (2012.01)
G06Q 20/22 (2012.01)
G06Q 20/32 (2012.01)
G06Q 20/36 (2012.01)
G06Q 20/38 (2012.01)
G06Q 20/40 (2012.01)
H04L 9/00 (2022.01)
H04L 9/32 (2006.01)
H04L 9/40 (2022.01)
H04L 67/06 (2022.01)
H04W 12/069 (2021.01)
H04L 67/104 (2022.01)
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(51) Int. Cl.
B42D 25/305 (2014.01)
B41C 1/02 (2006.01)
B41N 1/00 (2006.01)
B42D 25/324 (2014.01)
G06K 19/06 (2006.01)
G07D 7/206 (2016.01)
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G06Q 10/30 (2023.01)
G06Q 20/06 (2012.01)
G06Q 20/22 (2012.01)
G06Q 30/0208 (2023.01)
H04L 9/00 (2022.01)
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B64G 1/10 (2006.01)
G01S 19/10 (2010.01)
G01S 19/28 (2010.01)
G06F 16/182 (2019.01)
G06F 16/487 (2019.01)
G06T 19/00 (2011.01)
G09B 9/12 (2006.01)
G01S 19/31 (2010.01)
G06F 3/04845 (2022.01)
G06F 3/04847 (2022.01)
G06F 3/06 (2006.01)
G06F 16/44 (2019.01)
G06F 30/20 (2020.01)
G06T 15/00 (2011.01)
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H05G 1/34 (2006.01)
(87) WO2024/074737
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 (51) Int. Cl.
 A61K 31/20 (2006.01)
 A61K 31/202 (2006.01)
 A61K 31/445 (2006.01)
 A61K 31/733 (2006.01)
 A61K 36/605 (2006.01)
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 G07C 5/02 (2006.01)
 G09B 19/16 (2006.01)
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C07D 471/04 (2006.01)
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A61K 31/713 (2006.01)
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A61K 45/00 (2006.01)
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A61P 25/00 (2006.01)
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A61P 43/00 (2006.01)
C07K 14/705 (2006.01)
C07K 16/46 (2006.01)
C12N 1/15 (2006.01)
C12N 1/19 (2006.01)
C12N 1/21 (2006.01)
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H04W 36/18 (2009.01)
H04L 65/1095 (2022.01)
H04L 67/148 (2022.01)
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A01K 67/027 (2006.01)
A61K 35/28 (2015.01)
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C07K 14/535 (2006.01)
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C07K 16/28 (2006.01)
C12N 5/00 (2006.01)
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G01N 33/53 (2006.01)
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C07K 14/47 (2006.01)
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(51) Int. Cl.
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C25B 1/24 (2021.01)
C25B 3/11 (2021.01)
C25B 3/27 (2021.01)
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 AND ELECTROLYSIS FACILITY WITH
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C25B 1/04 (2021.01)
C25B 9/05 (2021.01)
C25B 9/07 (2021.01)
C25B 15/02 (2021.01)
H01M 8/04 (2016.01)
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C22C 1/08 (2006.01)
B22F 3/02 (2006.01)
B22F 3/10 (2006.01)
B22F 3/11 (2006.01)
C22C 14/00 (2006.01)
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F04B 37/02 (2006.01)
F04B 37/04 (2006.01)
G21B 1/05 (2006.01)
G21B 1/17 (2006.01)
H01J 41/12 (2006.01)
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H02J 3/30 (2006.01)
G05B 15/02 (2006.01)
G06Q 10/06 (2023.01)
G06Q 50/06 (2012.01)
H02J 3/38 (2006.01)
H02K 7/02 (2006.01)
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A61P 31/14 (2006.01)
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C07K 14/47 (2006.01)
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E21B 47/022 (2012.01)
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E21B 47/02 (2006.01)
E21B 47/0228 (2012.01)
E21B 47/12 (2012.01)
G01C 9/00 (2006.01)
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A61K 39/00 (2006.01)
A61K 39/015 (2006.01)
A61K 39/29 (2006.01)
A61K 47/69 (2017.01)
A61P 1/16 (2006.01)
A61P 35/00 (2006.01)
C07H 15/14 (2006.01)
C07H 19/056 (2006.01)
C07H 23/00 (2006.01)
C07K 9/00 (2006.01)
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A61K 47/54 (2017.01)
A61K 38/26 (2006.01)
A61K 47/10 (2017.01)
A61K 47/60 (2017.01)
A61P 1/16 (2006.01)
A61P 3/00 (2006.01)
C07K 19/00 (2006.01)
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DEVICE FOR CARRYING OUT THIS
METHOD
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DEVICE
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F16H 25/20 (2006.01)
B22D 11/049 (2006.01)
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G01N 33/50 (2006.01)
C12Q 1/68 (2018.01)
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E21B 29/00 (2006.01)
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C12N 1/15 (2006.01)
C12R 1/685 (2006.01)
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(74) PHILLIPS ORMONDE FITZPATRICK
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- (71) WORTHINGTON PRODUCTS INCORPORATED
(11) AU-A-2022436869
(21) 2022436869 (22) 23.02.2022
(54) IMPROVED HIGH-DENSITY POLYETHYLENE MARINE BOOM
- (51) Int. Cl.
B63B 35/62 (2006.01)
B63B 21/04 (2006.01)
B63B 22/00 (2006.01)
B63B 35/44 (2006.01)
E02B 15/04 (2006.01)
- (87) WO2023/146557
(31) 63/303,217 (32) 26.01.22 (33) US
63/303,220 26.01.22 US
63/303,224 26.01.22 US
63/303,232 26.01.22 US
63/303,259 26.01.22 US
(43) 03.08.2023
(72) MEEKS, Paul S.; SCHNEIDER, Marc; GARVER, Jon
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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- (71) WORTHINGTON PRODUCTS INCORPORATED
(11) AU-A-2022437764
(21) 2022437764 (22) 23.02.2022
-
- (71) HDPE MARINE BOOM WITH AXIAL PASSAGE AND CHAIN STOP
- (51) Int. Cl.
B63B 35/62 (2006.01)
B63B 21/04 (2006.01)
B63B 22/00 (2006.01)
B63B 35/44 (2006.01)
E02B 15/04 (2006.01)
- (87) WO2023/146559
(31) 63/303,217 (32) 26.01.22 (33) US
63/303,220 26.01.22 US
63/303,224 26.01.22 US
63/303,232 26.01.22 US
63/303,259 26.01.22 US
(43) 03.08.2023
(72) MEEKS, Paul, S.; SCHNEIDER, Marc; GARVER, Jon
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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- (71) WORTHINGTON PRODUCTS INCORPORATED
(11) AU-A-2022438259
(21) 2022438259 (22) 23.02.2022
(54) FLANGED HDPE MARINE BOOM, MARINE BOOM SYSTEM, AND LUG PLATE
- (51) Int. Cl.
B63B 35/62 (2006.01)
B63B 21/04 (2006.01)
B63B 22/00 (2006.01)
B63B 35/44 (2006.01)
E02B 15/04 (2006.01)
- (87) WO2023/146558
(31) 63/303,217 (32) 26.01.22 (33) US
63/303,220 26.01.22 US
63/303,224 26.01.22 US
63/303,232 26.01.22 US
63/303,259 26.01.22 US
(43) 03.08.2023
(72) MEEKS, Paul S.; SCHNEIDER, Marc; GARVER, Jon
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd
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- (71) XERO LIMITED
(11) AU-A-2023209744
(21) 2023209744 (22) 19.01.2023
(54) METHODS AND SYSTEMS FOR PERFORMING DATABASE OPERATIONS
- (51) Int. Cl.
G06F 16/9032 (2019.01)
G06F 16/13 (2019.01)
G06F 16/176 (2019.01)
H04L 67/562 (2022.01)
- (87) WO2023/140745
(31) 2022900112 (32) 21.01.22 (33) AU
(43) 27.07.2023
(72) MCFAULL, Cassandra; THORNBURROW, Geoff
(74) FB Rice Pty Ltd
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- (71) YALE UNIVERSITY
(11) AU-A-2023213843
(21) 2023213843 (22) 24.01.2023
(54) VACCINE AGAINST LEPTOSPIROSIS
- (51) Int. Cl.
C07K 14/20 (2006.01)
A61K 39/02 (2006.01)

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A61P 31/04 (2006.01)
(87) WO2023/147307
(31) 63/302,817 **(32)** 25.01.22 **(33)** US
(43) 03.08.2023
(72) WUNDER, Elsie; KO, Albert
(74) RnB IP

(71) YNSECT
(11) AU-A-2022429780
(21) 2022429780 **(22)** 27.12.2022
(54) NON-DESTRUCTIVE QUANTITATIVE DETERMINATION OF AT LEAST ONE PERFORMANCE INDICATOR IN REARING A POPULATION OF LIVE INSECTS IN A COMPLEX MEDIUM
(51) Int. Cl.
G01N 21/359 (2014.01)
A01K 67/00 (2006.01)
A01K 67/033 (2006.01)
G01N 21/94 (2006.01)
(87) WO2023/126616
(31) FR2114582 **(32)** 28.12.21 **(33)** FR
(43) 06.07.2023
(72) LORRETTE, Bénédicte; RICHARD, Jérôme; DARAI, Laura; ARMENJON, Benjamin; NOURI, Maroua
(74) Griffith Hack

(71) ZERO NOX, INC.
(11) AU-A-2022409800
(21) 2022409800 **(22)** 14.12.2022
(54) VENTURI DEVICE WITH FORCED INDUCTION SYSTEMS AND METHODS
(51) Int. Cl.
F03B 13/06 (2006.01)
F02B 31/04 (2006.01)
F02B 37/00 (2006.01)
F02M 26/10 (2016.01)
F02M 35/10 (2006.01)
F03B 17/00 (2006.01)
F03G 7/04 (2006.01)
F04F 5/10 (2006.01)
F04F 5/16 (2006.01)
F15D 1/00 (2006.01)
(87) WO2023/114879
(31) 63/265,478 **(32)** 15.12.21 **(33)** US
63/265,483 15.12.21 US
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63/268,053 15.02.22 US
PCT/ 26.04.22 US
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PCT/ 22.11.22 US
US2022/050797
(43) 22.06.2023
(72) KERTON, James, Matthew
(74) FB Rice Pty Ltd

(71) ZHEJIANG CFMOTO POWER CO., LTD.
(11) AU-A-2022435902
(21) 2022435902 **(22)** 07.12.2022
(54) SADDLE-TYPE VEHICLE
(51) Int. Cl.
B62J 50/21 (2020.01)
B62J 50/22 (2020.01)

B62K 11/14 (2006.01)
(87) WO2023/138248
(31) 202210069981.X **(32)** 21.01.22 **(33)** CN
202211045151.X 25.08.22 CN
202211360075.1 31.10.22 CN
(43) 27.07.2023
(72) TANG, Yazhou; QIN, Xiaoang; SHEN, Yupeng
(74) Madderns Pty Ltd

(71) ZMAG, LTD.
(11) AU-A-2023216572
(21) 2023216572 **(22)** 30.01.2023
(54) MAGNETIC FIELD GENERATION DEVICE AND MOLTEN METAL DRIVE SYSTEM
(51) Int. Cl.
B22D 11/115 (2006.01)
B22D 11/04 (2006.01)
B22D 27/02 (2006.01)
F27D 27/00 (2010.01)
H05B 6/18 (2006.01)
H05B 6/44 (2006.01)
(87) WO2023/149395
(31) 2022-015921 **(32)** 03.02.22 **(33)** JP
(43) 10.08.2023
(72) TAKAHASHI Kenzo
(74) Griffith Hack

(71) ZYTOX THERAPEUTICS AB
(11) AU-A-2023215789
(21) 2023215789 **(22)** 06.02.2023
(54) FUSION PROTEIN COMPRISING AN EGFR-BINDING DOMAIN AND A MASKING DOMAIN
(51) Int. Cl.
C07K 16/28 (2006.01)
A61P 35/00 (2006.01)
C07K 14/71 (2006.01)
G01N 33/554 (2006.01)
(87) WO2023/148388
(31) 2250114-2 **(32)** 04.02.22 **(33)** SE
(43) 10.08.2023
(72) STÄHL, Stefan; DAHLSSON LEITAO, Charles; LÖFBLOM, John; MESTRE BORRAS, Anna
(74) James & Wells Intellectual Property

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2021479275	SHAHEEN INNOVATIONS HOLDING LIMITED	2022418925	LG ELECTRONICS INC.
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		2022419588	GENZYME CORPORATION
		2022419596	ENLAZA THERAPEUTICS, INC.
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2022409798	RECURIUM IP HOLDINGS, LLC	2022420594	MODEX THERAPEUTICS, INC.
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2022410532	ACCORA LIMITED	2022420749	CHIESI FARMACEUTICI S.P.A.
2022410678	JANSSEN BIOTECH, INC.	2022420763	OVUN AS
2022411048	WILLIAM MARSH RICE UNIVERSITY	2022420764	VICTORIA LINK LIMITED; UNIVERSITY OF MELBOURNE; MALCORP BIODISCOVERIES LIMITED
2022411075	ANSA BIOTECHNOLOGIES, INC.		
2022411082	PARALLEL CAPTURE BRANDS, INC.	2022420829	METALOGENIA RESEARCH & TECHNOLOGIES S.L.
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		2022420923	RPG ACOUSTICAL SYSTEMS LLC
		2022420974	WHITE, M.
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		2022420976	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
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2022413555	MAGNA IMPERIO SYSTEMS CORP.	2022421462	SICPA HOLDING SA
2022413622	SANOFI	2022421643	FISHER & PAYKEL APPLIANCES LIMITED
2022413959	ALTERNATIVE BALLISTICS CORPORATION	2022421837	PRINCIPIA BIOPHARMA INC.
2022414087	TRUSTEES OF TUFTS COLLEGE	2022421934	DOT INCORPORATION
2022414095	THE TRUSTEES OF INDIANA UNIVERSITY	2022421979	THE JACKSON LABORATORY
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2022414211	MARCHESAN IMPLEMENTOS E MÁQUINAS AGRÍCOLAS TATU S/A	2022422215	PSYLO PTY LTD
		2022422276	ASTRAZENECA AB
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2022414309	JANSSEN BIOTECH, INC.; THE UNIVERSITY OF TOKYO	2022422471	MYENERGI LTD
		2022422534	BOREALIS AG
2022414369	GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.	2022422704	COMERCIAL INDUSTRIAL MAQUINARIA CARTON ONDULADO, S.L.
2022414975	POSCO CO., LTD; RESEARCH INSTITUTE OF INDUSTRIAL SCIENCE & TECHNOLOGY		
		2022423047	CELLAED LIFE SAVER PTY LTD
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2022415337	RADIN, D.P.		
2022415533	INBIOSE N.V.	2022425103	RENERVA, LLC
2022417289	SICONA BATTERY TECHNOLOGIES PTY LTD	2022425279	AVERTECH, INC.
2022417301	FAIRHAVEN PHARMACEUTICALS INC.	2022425670	ARCA TECHNOLOGIES S.R.L.
2022417524	THE KATHOLIEKE UNIVERSITEIT LEUVEN; SPRINGWORKS THERAPEUTICS INC.; VIB VZW	2022426217	CHINA NATIONAL PETROLEUM CORPORATION; CHINA PETROLEUM ENGINEERING CORPORATION; CHINA HUANQIU CONTRACTING & ENGINEERING CORP.
2022417673	GENIS HF.		
2022418000	SICPA HOLDING SA		
2022418104	UMICORE	2022426775	MAZEN ANIMAL HEALTH INC.
2022418176	CHIESI FARMACEUTICI S.P.A.	2022426780	ARCUTIS BIOTHERAPEUTICS, INC.
2022418214	LG ELECTRONICS INC.	2022426818	SABIC AGRI-NUTRIENTS COMPANY
2022418277	OSLER DIAGNOSTICS LIMITED	2022427854	NOKIA TECHNOLOGIES OY
2022418319	SOLUM CO., LTD.	2022427995	SABIC AGRI-NUTRIENTS COMPANY
2022418344	HELSINGIN YLIOPISTO	2022427999	GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
2022418513	L'AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ÉTUDE ET L'EXPLOITATION DES PROCÉDES GEORGES CLAUDE	2022428551	BEIJING ROBOROCK TECHNOLOGY CO., LTD.
		2022429340	ARCUTIS BIOTHERAPEUTICS, INC.
		2022429732	SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES
2022418530	VERACIO LTD.		
2022418603	POW GENETIC SOLUTIONS, INC.	2022429780	YNSECT
2022418639	SHANGHAI IASO BIOTECHNOLOGY CO., LTD.	2022429913	THE PROGERIA RESEARCH FOUNDATION

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2022430626	HUAWEI TECHNOLOGIES CO., LTD.	2023207052	MYLAPS B.V.
2022430796	HUAWEI TECHNOLOGIES CO., LTD.	2023207134	KDH ADVANCED RESEARCH PTY LTD
2022431173	BEYER, C.F.	2023207136	SUNCOR ENERGY INC.
2022431738	DIVA INTERNATIONAL INC.; SAINI, C.	2023207150	BIOMOLECULAR HOLDINGS LLC
2022432354	SUZHOU PUHE BIOPHARMA CO., LTD.	2023207156	UNIVERSITY OF WASHINGTON
2022432498	LANGWISCH, B.	2023207276	AGV DISCOVERY; INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE); CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE; UNIVERSITE DE MONTPELLIER
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2022432802	HIGGINS RESEARCH & DEVELOPMENT, LLC	2023207280	WORLDLINE; INGENICO BELGIUM
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2022433280	QINGDAO HAIER WASHING MACHINE CO., LTD.; HAIER SMART HOME CO., LTD.	2023207390	NANJING ZAIMING PHARMACEUTICAL CO., LTD.
2022433340	DORPHAN SA	2023207496	SANDVIK MINING AND CONSTRUCTION OY
2022434038	UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION	2023207602	H.J. HEINZ COMPANY BRANDS LLC
2022434535	PERIOTECH, LLC	2023207610	JTL ENTERPRISES, INC.
2022434686	JIANGSU YAO BIOTECHNOLOGY CO., LTD.	2023207615	TRUE CORNERS, LLC
2022435654	RENATA PHARMACEUTICAL (IRELAND) LIMITED	2023207643	INTEGRITY ENGINEERING SOLUTIONS PTY LTD
2022435902	ZHEJIANG CFMOTO POWER CO., LTD.	2023207781	TCHIBO GMBH
2022436869	WORTHINGTON PRODUCTS INCORPORATED	2023207795	ABIVAX
2022437244	21 ENTERTAINMENT LLC	2023207964	PHYDELITER, INC.
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2022437669	NEOINNOTECH. CORP.	2023208224	NEWSOUTH INNOVATIONS PTY LIMITED
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2022438138	BEIJING LIANGYUAN BIO-SCIENCE, LLC	2023208262	TECHNIP ENERGIES FRANCE
2022438259	WORTHINGTON PRODUCTS INCORPORATED	2023208274	ASTRAZENECA IRELAND LIMITED
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2022439192	ABB SCHWEIZ AG	2023208395	KOMATSU LTD.
2022441288	DURAN DOĞAN BASIM VE AMBALAJ SANAYİ A.Ş.	2023208408	SCIENCONS AS
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2022443191	PARITY QUANTUM COMPUTING GMBH	2023208609	BUILDING FROM ABOVE AB
2022450437	SOLODOVNIK, S.A.	2023208620	CATERPILLAR INC.
2022456807	SUNGROW POWER SUPPLY CO., LTD.	2023208627	VIKING THERAPEUTICS, INC.
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2022487602	SUZHOU YIHANG ELECTRONIC TECHNOLOGY CO., LTD.		
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2023204840	BEIJING SCITECH-MQ PHARMACEUTICALS LIMITED	2023208742	JALMRR, LLC
		2023208753	BEAVER-VISITEC INTERNATIONAL, INC.
2023205140	OAK CREST INSTITUTE OF SCIENCE	2023208756	BAKER HUGHES OILFIELD OPERATIONS LLC
2023205309	DIESEKO GROUP B.V.	2023208835	INSTANT SEED GMBH
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		2023209061	EXELIXIS, INC.
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2023210979	SHANGHAI ARGO BIOPHARMACEUTICAL CO., LTD.	2023218773	VYSOKA SKOLA CHEMICKO-TECNOLOGICKA V PRAZE
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2023211592	AARDVARK THERAPEUTICS, INC.	2023219259	CRODA INTERNATIONAL PLC
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2023211813	KEMIWATT; UNIVERSITE DE RENNES; CENTRALE LILLE INSTITUT; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	2023219773	VISTERRA, INC.
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2023213160	MOLECULENT AB	2023224241	BAYER CONSUMER CARE AG
2023213172	ITALTRACTOR ITM S.P.A.	2023224434	COMAU S.P.A.
2023213173	GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED	2023224521	NOVO NORDISK A/S
2023213255	KOMATSU LTD.	2023225006	THYSSENKRUPP NUCERA AG & CO. KGAA
2023213626	PARION SCIENCES, INC.	2023226134	RESOTHER PHARMA A/S
2023213702	FORM ENERGY, INC.	2023226313	TEIJIN PHARMA LIMITED; UNIVERSITY PUBLIC CORPORATION OSAKA
2023213736	TANGO THERAPEUTICS, INC.	2023226598	OLEON NV; BERG+SCHMIDT ASIA PTE. LTD.
2023213763	GOOGLE LLC	2023226876	ALCON INC.
2023213817	BOSTONGENE CORPORATION	2023227388	PAUL HETTICH GMBH & CO. KG
2023213843	YALE UNIVERSITY	2023227606	KROSAKI HARIMA CORPORATION
2023213938	SCEPTER U.S. HOLDING COMPANY	2023227622	SOMPO CARE INC.
2023213964	CASCADE CORPORATION	2023228339	PAUL HETTICH GMBH & CO. KG
2023213969	TORUS INC.	2023228399	AERONES ENGINEERING, SIA
2023214024	TRAMES BIO, INC.; KERAVALA, A.	2023228446	KROSAKI HARIMA CORPORATION
2023214606	SCHLETTER INTERNATIONAL B.V.	2023229070	SOCIÉTÉ DES PRODUITS NESTLÉ S.A.
2023214760	FRITO-LAY TRADING COMPANY GMBH	2023229117	SOMPO CARE INC.
2023215271	CYTOVALE INC.	2023229208	ALCON INC.
2023215384	COLGATE-PALMOLIVE COMPANY	2023230083	HEIDELBERG MATERIALS AG
2023215456	CAAMTECH, INC.	2023230185	FROMM HOLDING AG
2023215593	SARTORIUS BIA SEPARATIONS D.O.O.	2023230207	HEIDELBERG MATERIALS AG
2023215615	DEEPMIND TECHNOLOGIES LIMITED	2023231265	HANSHOW TECHNOLOGY CO., LTD.
2023215649	FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	2023231737	THYSSENKRUPP NUCERA AG & CO. KGAA
2023215789	ZYTOX THERAPEUTICS AB	2023231764	MEDACTA INTERNATIONAL SA
2023216231	ELI LILLY AND COMPANY	2023232080	GENENTECH, INC.
2023216258	WASHINGTON UNIVERSITY	2023232527	MEDACTA INTERNATIONAL SA
2023216279	LINDSAY CORPORATION	2023232901	BOEHRINGER INGELHEIM INTERNATIONAL GMBH
2023216370	TRACKMOBILE LLC	2023233398	GREEN CROSS CORPORATION; HANMI PHARM. CO., LTD.
2023216391	QINETIQ LIMITED	2023234374	REKOR SYSTEMS, INC.
2023216572	ZMAG, LTD.	2023234531	THE PROCTER & GAMBLE COMPANY
2023217006	NEXTPPOINT THERAPEUTICS, INC.	2023234973	GREEN CROSS CORPORATION; HANMI PHARM. CO., LTD.
2023217032	INARI MEDICAL, INC.	2023235280	THE PROCTER & GAMBLE COMPANY
2023217051	KOYA MEDICAL, INC.	2023236347	REHAU INDUSTRIES SE & CO. KG
2023217068	HILL'S PET NUTRITION, INC.	2023236885	ELECTROLUX APPLIANCES AKTIEBOLAG
2023217178	BEIERSDORF AG	2023236910	LAMKAP BIO GAMMA AG
2023217241	F. HOFFMANN-LA ROCHE AG	2023237882	ABBVIE INC.
2023217604	EBR SYSTEMS, INC.	2023253895	LAWVO INC.
2023217660	INSINKERATOR LLC	2023255789	GLENCORE OPERATIONS SOUTH AFRICA (PTY) LIMITED
2023217824	ROQUETTE FRERES	2023262181	ITM ISOTOPE TECHNOLOGIES MUNICH SE
2023217831	BEIERSDORF AG	2023265721	LG ENERGY SOLUTION, LTD.
2023218551	TEITUR TROPHICS APS	2023277224	D'ANGLADE, P.
		2023313554	LG ENERGY SOLUTION, LTD.
		2023327731	LG ENERGY SOLUTION, LTD.

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2023357514	SOCIEDAD ESPAÑOLA DE ELECTROMEDICINA Y CALIDAD, S.A.
2023387765	LG ELECTRONICS INC.
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2022412821 2022417301 2022434686	2023206604 2023207150 2023208662 2023210844 2023215789 2023216231 2023217006 2023218678 2023219227 2023226313 2023236910	2022420735 2023206924		2022420136	2022421643
<u>C07D 513 /-</u>		<u>C09D 11 /-</u>		<u>C22B 1 /-</u>	<u>D06F 58 /-</u>
2023207390		2023209644		2022414975	2022433280
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2022432354		2021480352	2022411048 2022415533 2022418603 2022418639 2022419583 2022421979 2022424159 2022426775 2023206501 2023207033 2023207150 2023217006 2023218678 2023223660 2023226313	2022414975	2022432802
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2022422112 2023207276		2021480352		2022414975	2022441288 2023220046
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2022409554	2022410678 2022411075 2022414095 2022418344 2023208627 2023218678	2021480352		2022437514	2022441288 2023220046
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<u>C07H 21 /-</u>	<u>C07K 5 /-</u>	<u>C09K 8 /-</u>	<u>C12N 7 /-</u>	<u>C23F 14 /-</u>	<u>E02D 1 /-</u>
2022418639 2022426775	2023205140 2023208227	2022464726	2023212736	2023206924	2023215649
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2022420764	2022420764	2023208725	2022409554 2022410678 2022411075 2022414095 2022419583 2022419596 2022420136 2023204836 2023207156 2023208227 2023209364 2023209795	2023210412 2023225006 2023231737	2023205309
<u>C07K 1 /-</u>	<u>C08F 220 /-</u>	<u>C10G 55 /-</u>		<u>C25B 11 /-</u>	<u>E02D 5 /-</u>
2023215593	2023232080	2023208725		2023210412 2023225006	2023205309
<u>C07K 14 /-</u>	<u>C08G 69 /-</u>	<u>C11B 3 /-</u>		<u>C25B 15 /-</u>	<u>E02D 7 /-</u>
2022411048 2022414095 2022418344 2022419583 2022421979 2022426775 2022429732 2023206604 2023207156 2023209445 2023210838 2023213843 2023215593 2023215789 2023216258 2023218551 2023218678 2023226134 2023226313	2022441552	2022420136		2023231737	2023205309
	<u>C08G 73 /-</u>	<u>C12N 1 /-</u>	<u>C12P 19 /-</u>	<u>C25B 3 /-</u>	<u>E02F 3 /-</u>
	2022441552	2022420136 2023218678 2023226313	2022409554 2022411075 2022415533	2023225006	2022420829 2023207136 2023213172
	<u>C08G 77 /-</u>	<u>C12N 13 /-</u>		<u>C25B 9 /-</u>	<u>E02F 9 /-</u>
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	<u>C08J 3 /-</u>	<u>C12N 15 /-</u>	<u>C12P 21 /-</u>	<u>C25C 3 /-</u>	<u>E03C 1 /-</u>
	2022441552	2022410678 2022414095 2022414274 2022418344 2022419583 2022421979 2022424159 2022426775 2022434038 2023204836 2023206501 2023206836 2023207033 2023207150 2023207156 2023208274 2023210230 2023210747	2022419596 2023218678 2023223660 2023226313	2022380585	2023217660
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	<u>C08K 3 /-</u>			<u>D05C 17 /-</u>	<u>E04C 2 /-</u>
	2022417289 2023206924			2022432802	2023222398
	<u>C08K 5 /-</u>			<u>D06F 34 /-</u>	
	2023211813			2023387765	
	<u>C08L 67 /-</u>			<u>D06F 37 /-</u>	
2022409733 2022409798 2022410678 2022414309 2022418639 2022419596	2023206648			2022421643	

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	2022411124	2023217051			
<u>E04F 19 /-</u>	<u>F01D 1 /-</u>	<u>F04B 37 /-</u>	<u>F21V 17 /-</u>	<u>G01G 19 /-</u>	<u>G01S 1 /-</u>
2023207615	2023209365	2023206804	2022430193	2023207136	2022405021
<u>E05D 11 /-</u>	<u>F01D 5 /-</u>	<u>F04D 17 /-</u>	<u>F21V 23 /-</u>	<u>G01G 23 /-</u>	<u>G01S 19 /-</u>
2023208849	2023209365	2023209365	2022430193	2023207136	2022405021
					2023209396
<u>E05D 15 /-</u>	<u>F01K 11 /-</u>	<u>F04D 5 /-</u>	<u>F21V 31 /-</u>	<u>G01L 5 /-</u>	<u>G01V 1 /-</u>
2023208258	2023209365	2023209365	2022430193	2023207643	2023215649
2023208849					
<u>E05D 3 /-</u>	<u>F01K 7 /-</u>	<u>F04F 5 /-</u>	<u>F21W 131 /-</u>	<u>G01M 11 /-</u>	<u>G02B 26 /-</u>
2023208258	2023209365	2022409800	2022430193	2022465944	2023207134
2023208849					
2023208849	<u>F02B 31 /-</u>	<u>F15D 1 /-</u>	<u>F23B 60 /-</u>	<u>G01M 3 /-</u>	<u>G02B 27 /-</u>
	2022409800	2022409800	2023209572	2023222491	2023207134
<u>E05F 1 /-</u>	<u>F02B 37 /-</u>	<u>F16C 17 /-</u>	<u>F23D 14 /-</u>	<u>G01N 13 /-</u>	<u>G02B 5 /-</u>
2023208258	2022409800	2023207496	2023211059	2023209577	2023207134
2023208849					
2023210030	<u>F02C 1 /-</u>	<u>F16C 33 /-</u>	<u>F23G 5 /-</u>	<u>G01N 15 /-</u>	<u>G02C 7 /-</u>
	2023209365	2023207496	2023209572	2023213817	2022465944
<u>E05F 5 /-</u>	<u>F02D 19 /-</u>	<u>F16H 1 /-</u>	<u>F23K 5 /-</u>	2023215271	
2023208258	2023208224	2023212404	2023211059	<u>G01N 21 /-</u>	<u>G05B 15 /-</u>
2023208849				2022429780	2023213969
	<u>F02M 26 /-</u>	<u>F16H 25 /-</u>	<u>F23N 5 /-</u>	2023217241	
	2022409800	2023212404	2023209572	<u>G01N 27 /-</u>	<u>G05B 19 /-</u>
<u>E06B 9 /-</u>	<u>F02M 35 /-</u>	<u>F16H 27 /-</u>	<u>F24C 15 /-</u>	2023213172	2022439192
2023208415	2022409800	2023214606	2023236885	<u>G01N 3 /-</u>	<u>G05D 1 /-</u>
				2023213172	2021480388
<u>E21B 17 /-</u>	<u>F02M 43 /-</u>	<u>F16K 27 /-</u>	<u>F24S 30 /-</u>	<u>G01N 33 /-</u>	<u>G06F 16 /-</u>
2022420763	2023208224	2022419408	2023214606	2022418639	2022441312
2023208756				2022422112	2023207964
	<u>F03B 13 /-</u>	<u>F16L 23 /-</u>	<u>F24T 10 /-</u>	2022429913	2023209396
<u>E21B 25 /-</u>	2022409800	2022419408	2022414101	2023206361	2023209744
2022414202		2023207643	<u>F25J 1 /-</u>	2023206604	2023253895
	<u>F03B 17 /-</u>	<u>F16L 27 /-</u>	2022418513	2023209577	<u>G06F 21 /-</u>
<u>E21B 29 /-</u>	2022409800	2023216279	2023208262	2023215271	2023207280
2023222660				2023215593	
	<u>F03D 1 /-</u>	<u>F16L 29 /-</u>	<u>F27D 27 /-</u>	2023215649	<u>G06F 3 /-</u>
	2022430059	2022419408	2023216572	2023215789	
<u>E21B 33 /-</u>	<u>F03D 13 /-</u>	<u>F16L 3 /-</u>	<u>F42B 12 /-</u>	2023217006	2022421934
2022464726	2023210811	2023216279	2022405021	2023218678	2022437244
2023222660			2022413959	2023223660	2023207134
	<u>F03D 80 /-</u>	<u>F16L 58 /-</u>	<u>F42D 1 /-</u>	2023232901	2023207280
<u>E21B 36 /-</u>	2022430059	2022419408	2023255789	<u>G01N 35 /-</u>	2023209396
2023210385	2023228399		2023338642	2023206702	<u>G06F 30 /-</u>
		<u>F17C 3 /-</u>	<u>G01C 19 /-</u>	2023207327	2023209396
<u>E21B 41 /-</u>	<u>F03G 4 /-</u>	2022426217	2022418530	<u>G01R 19 /-</u>	<u>G06F 40 /-</u>
2023205841	2022414101			2022422471	2022437244
2023208756				2023206640	2022441312
<u>E21B 44 /-</u>					
2022419406					
<u>E21B 47 /-</u>					
2022418530					
2022419406					
2023205841					
2023222491					
2023222660					

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2022421462 2023207052 2023210199	2022409690	2023206804	2023213969	2023212361
<u>G06K 7 /-</u>	<u>G06V 20 /-</u>	<u>H01M 10 /-</u>	<u>H02M 1 /-</u>	<u>H04W 4 /-</u>
2023210199	2022409690 2023234374	2023265721 2023313554 2023327731	2022427999 2022437848	2022432618 2023231265
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2022443191	2023207136 2023234374	2023213702	2022437848	2023206483
<u>G06N 20 /-</u>	<u>G07C 9 /-</u>	<u>H01M 16 /-</u>	<u>H02S 20 /-</u>	<u>H05B 6 /-</u>
2023205841 2023213817	2023206011	2022437848	2023214606	2023216572
<u>G06N 3 /-</u>	<u>G07D 7 /-</u>	<u>H01M 4 /-</u>	<u>H03K 19 /-</u>	<u>H05G 1 /-</u>
2022418603 2023213763 2023213817 2023215615	2022421462 2023220920	2023210412 2023213702 2023220914	2021479275	2023357514
<u>G06N 5 /-</u>	<u>G07F 11 /-</u>	<u>H01M 50 /-</u>	<u>H04B 7 /-</u>	<u>H05K 5 /-</u>
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2022418000 2022420975	2023207136	2022418319 2022456807 2022487602	2023209486	
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2022420974 2022420975 2023253895	2023207052 2023212417	2023206640	2023212361	
<u>G06Q 50 /-</u>	<u>G10K 11 /-</u>	<u>H02J 13 /-</u>	<u>H04L 67 /-</u>	
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2022437244	2022427854	2022414369 2022427999 2022437848 2023213969	2022418000 2022420975	
<u>G06T 15 /-</u>	<u>G16B 5 /-</u>	<u>H02J 7 /-</u>	<u>H04N 21 /-</u>	
2023209396	2022418603	2022418319	2023205562	
	<u>G16H 50 /-</u>	<u>H02K 1 /-</u>	<u>H04R 1 /-</u>	
	2023215271 2023229117	2023212477	2022438825	
	<u>G21B 1 /-</u>		<u>H04R 5 /-</u>	
	2023206804		2022438825	
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 (21) 2022203494 (22) 23.05.2022
 (54) Adeno-Associated Virus Variant Capsids And Use For Inhibiting Angiogenesis
 (51) Int. Cl.
C12N 7/00 (2006.01)
A61K 9/00 (2006.01)
A61K 35/76 (2015.01)
C12N 15/86 (2006.01)
 (43) 09.06.2022
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 (74) WRAYS PTY LTD

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 (21) 2020452061 (22) 11.06.2020
 (54) Method of controlling propulsion system of marine vehicle and propulsion system
 (51) Int. Cl.
B63H 1/10 (2006.01)
 (87) WO2021/249644
 (43) 16.12.2021
 (44) 01.08.2024
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 (74) Griffith Hack

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 (11) AU-B-2023214339
 (21) 2023214339 (22) 11.08.2023
 (54) Heart pump with passive purge system
 (51) Int. Cl.
A61M 60/122 (2021.01)
A61M 60/139 (2021.01)
 (43) 31.08.2023
 (44) 01.08.2024
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 (54) Blood pump
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A61M 60/17 (2021.01)
 (87) WO2019/034775
 (31) 17186897.9 (32) 18.08.17 (33) EP
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 (21) 2017202923 (22) 02.05.2017
 (54) Improvements in or in relation to automated packaging
 (51) Int. Cl.
B65D 43/14 (2006.01)
B29C 51/02 (2006.01)
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 (21) 2021201640 (22) 16.03.2021
 (54) Methods for detecting and/or measuring anti-drug antibodies, in particular treatment-emergent anti-drug antibodies
 (51) Int. Cl.
G01N 33/531 (2006.01)
C07K 16/18 (2006.01)
G01N 33/68 (2006.01)
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 (74) Phillips Ormonde Fitzpatrick

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 (11) AU-B-2022228194
 (21) 2022228194 (22) 09.09.2022
 (54) A stable, self-dispersible, low foaming solid pesticide formulation
 (51) Int. Cl.
A01N 47/04 (2006.01)
A01N 25/12 (2006.01)
A01N 25/34 (2006.01)
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A01N 43/707 (2006.01)

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A01P 3/00 (2006.01)
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 (21) 2018253948 (22) 20.04.2018
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 (51) Int. Cl.
A61K 47/68 (2017.01)
A61K 31/502 (2006.01)
A61K 31/706 (2006.01)
A61K 31/7068 (2006.01)
A61K 45/06 (2006.01)
A61P 35/00 (2006.01)
 (87) WO2018/193102
 (31) 1706231.6 (32) 20.04.17 (33) GB
 1706230.8 20.04.17 GB
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 (21) 2017345786 (22) 20.10.2017
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 (51) Int. Cl.
C07K 16/10 (2006.01)
A61K 39/00 (2006.01)
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 (31) 62/411,508 (32) 21.10.16 (33) US
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 (51) Int. Cl.
C07D 401/14 (2006.01)

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(11) AU-B-2023204280
(21) 2023204280 **(22)** 03.07.2023
(54) METHOD OF MANUFACTURING A POSITIVE ELECTRODE MATERIAL AND BATTERY PRODUCED THEREFROM
(51) Int. Cl.
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H01M 4/38 (2006.01)
H01M 4/60 (2006.01)
H01M 10/0525 (2010.01)
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H04Q 1/02 (2006.01)
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A61B 3/13 (2006.01)
A61B 3/15 (2006.01)
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F25B 39/00 (2006.01)
F25B 41/00 (2021.01)

F28B 1/06 (2006.01)
F28D 9/00 (2006.01)
F28F 9/26 (2006.01)
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A61K 33/32 (2006.01)
A61K 51/00 (2006.01)
A61N 5/00 (2006.01)
A61N 5/02 (2006.01)
A61N 5/06 (2006.01)
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A61P 35/00 (2006.01)
G21G 4/04 (2006.01)

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B65D 85/67 (2006.01)
B65H 75/18 (2006.01)
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H04W 4/02 (2018.01)
E21F 13/00 (2006.01)
H04W 4/029 (2018.01)
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A61F 2/14 (2006.01)
A61F 11/04 (2006.01)
A61M 1/30 (2006.01)
G02B 5/00 (2006.01)
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A61K 31/138 (2006.01)
A61K 31/216 (2006.01)
A61P 11/00 (2006.01)
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G06Q 20/36 (2012.01)
B60R 25/24 (2013.01)
G06F 3/0484 (2022.01)
H04L 67/00 (2022.01)
H04M 1/72403 (2021.01)
H04W 4/80 (2018.01)
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H02J 7/00 (2006.01)
G06F 1/26 (2006.01)
H02J 50/40 (2016.01)
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A61N 5/06 (2006.01)
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C02F 1/26 (2006.01)
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E05D 3/16 (2006.01)
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C08G 63/685 (2006.01)
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A23C 9/12 (2006.01)
A23L 33/135 (2016.01)
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A61P 19/02 (2006.01)
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A61B 18/16 (2006.01)
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B32B 7/12 (2006.01)
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F41H 5/04 (2006.01)
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F41H 13/00 (2006.01)
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A61P 31/04 (2006.01)
A61K 33/20 (2006.01)
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H04N 19/105 (2014.01)
H04N 19/117 (2014.01)
H04N 19/124 (2014.01)
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H04N 19/176 (2014.01)
H04N 19/186 (2014.01)
H04N 19/51 (2014.01)
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A61B 5/03 (2006.01)
A61F 9/00 (2006.01)
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C04B 22/12 (2006.01)
C04B 24/12 (2006.01)
C04B 40/00 (2006.01)
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B60K 35/00 (2006.01)
B60S 5/00 (2006.01)
B66F 9/06 (2006.01)
G01M 17/013 (2006.01)
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H04W 4/38 (2018.01)

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G06T 5/77 (2024.01)
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H04N 5/06 (2006.01)
H04N 7/10 (2006.01)
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G09G 3/34 (2006.01)
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H04N 1/56 (2006.01)
G06F 3/04847 (2022.01)
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C11B 3/00 (2006.01)
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C11B 3/14 (2006.01)

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F16C 11/10 (2006.01)
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C07C 217/58 (2006.01)
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NETWORK AND METHOD ASSOCI-
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H04L 9/40 (2022.01)
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B60T 17/22 (2006.01)
B61H 1/00 (2006.01)
B61H 13/36 (2006.01)
F16D 49/16 (2006.01)
F16D 65/28 (2006.01)
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E02F 3/85 (2006.01)
E02F 3/76 (2006.01)
E02F 9/20 (2006.01)
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 TSUMURA, Souichi; MOTOMURA, Tak-
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 (21) 2020228247 (22) 27.02.2020
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 ease, comprising *Leuconostoc citreum*
WiKim0104
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C12N 1/20 (2006.01)
A23K 10/16 (2016.01)
A23L 29/00 (2016.01)
A23L 33/135 (2016.01)
A61K 35/744 (2015.01)
A61P 1/16 (2006.01)
A61P 3/04 (2006.01)
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 based multimetal industrial solid wastes
 by oxygen-enriched side blowing smelt-
 ing furnace with chaotic stirring bath
 (51) Int. Cl.
C22B 7/04 (2006.01)
B09B 3/00 (2006.01)
F27B 3/22 (2006.01)
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C07K 16/00 (2006.01)
A61K 39/395 (2006.01)
C07K 16/28 (2006.01)
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A61K 47/24 (2006.01)
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A41G 5/02 (2006.01)
A45D 26/00 (2006.01)
B25B 9/02 (2006.01)
 (43) 10.08.2023
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F21V 23/04 (2006.01)
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G01N 1/31 (2006.01)
B01L 3/00 (2006.01)
B05C 3/02 (2006.01)
G01N 33/48 (2006.01)
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G01N 35/00 (2006.01)
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G01N 33/00 (2006.01)
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F25B 5/02 (2006.01)
F25B 49/02 (2006.01)
F25D 11/02 (2006.01)
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A01G 9/24 (2006.01)
A01G 9/14 (2006.01)
A01G 9/20 (2006.01)
A01G 24/00 (2018.01)
F21K 9/00 (2016.01)
F21W 131/109 (2006.01)
F21Y 115/10 (2016.01)
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A47L 11/40 (2006.01)
F04D 13/06 (2006.01)
F04D 15/02 (2006.01)
G06F 3/0484 (2022.01)
G06F 3/0488 (2022.01)
G06F 11/32 (2006.01)
G06T 11/00 (2006.01)
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A61F 2/40 (2006.01)
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B01D 53/56 (2006.01)
B01D 53/62 (2006.01)
C01B 21/38 (2006.01)
C01B 32/60 (2017.01)
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H01L 31/078 (2012.01)
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H10K 71/12 (2023.01)
H10K 71/15 (2023.01)
H10K 71/40 (2023.01)
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A61K 31/135 (2006.01)
A61K 47/34 (2017.01)
A61P 29/00 (2006.01)
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B64C 1/00 (2006.01)
F15D 1/00 (2006.01)
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A61K 38/27 (2006.01)
A61P 1/16 (2006.01)
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A41D 27/00 (2006.01)
A41D 1/089 (2018.01)
A41D 7/00 (2006.01)
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A01D 41/14 (2006.01)
A01D 43/00 (2006.01)
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A61K 31/568 (2006.01)
A61K 47/14 (2017.01)
A61P 5/26 (2006.01)
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(54) SYSTEM AND METHOD FOR MATCHING USING LOCATION INFORMATION
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H04W 64/00 (2009.01)
G08B 1/08 (2006.01)
H04W 4/02 (2018.01)
H04W 4/021 (2018.01)
H04W 4/029 (2018.01)
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E04H 12/12 (2006.01)

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E04H 12/16 (2006.01)
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A47J 43/07 (2006.01)
B26D 1/00 (2006.01)
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A61K 9/68 (2006.01)
A61K 31/465 (2006.01)
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A61M 1/06 (2006.01)
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A61B 17/04 (2006.01)
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A61F 2/08 (2006.01)
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A61B 17/34 (2006.01)
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A61F 13/02 (2006.01)
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E01C 13/08 (2006.01)
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(21) 2021200281

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(54) Agents and methods for treating dysproliferative diseases
(51) Int. Cl.
C07D 307/93 (2006.01)
C07D 413/04 (2006.01)
C07D 491/048 (2006.01)
C07D 498/04 (2006.01)
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(54) Electrophoresis device
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B01D 57/02 (2006.01)
A61K 35/15 (2015.01)
C12N 5/076 (2010.01)
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C07K 16/28 (2006.01)
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(74) Spruson & Ferguson

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A61K 39/00 (2006.01)
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C07D 401/12 (2006.01)
A61K 31/4439 (2006.01)
A61K 31/444 (2006.01)
A61P 29/00 (2006.01)
C07D 401/14 (2006.01)
C07D 413/12 (2006.01)
C07D 413/14 (2006.01)
C07D 417/14 (2006.01)
C07D 471/04 (2006.01)
C07D 471/10 (2006.01)
C07D 487/04 (2006.01)
C07D 491/04 (2006.01)
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 (74) Allens Patent & Trade Mark Attorneys

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G01F 1/84 (2006.01)
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B25H 3/00 (2006.01)
A45C 11/00 (2006.01)
A45F 5/00 (2006.01)
A45F 5/02 (2006.01)
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H02K 1/14 (2006.01)
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H02K 3/52 (2006.01)
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H02K 7/14 (2006.01)
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H01M 10/48 (2006.01)
G01R 31/392 (2019.01)
H01M 10/44 (2006.01)
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A01G 31/04 (2006.01)
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H04N 21/2343 (2011.01)
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A61B 3/08 (2006.01)
A61B 3/09 (2006.01)
A61B 3/10 (2006.01)
A61B 3/113 (2006.01)
A61B 3/14 (2006.01)
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F41A 9/60 (2006.01)
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E04F 13/07 (2006.01)
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H01M 4/485 (2010.01)
H01M 4/525 (2010.01)
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F16L 15/04 (2006.01)
C08K 5/3417 (2006.01)
C08L 101/00 (2006.01)
C10M 103/00 (2006.01)
C10M 107/38 (2006.01)
C10M 139/00 (2006.01)
C10N 10/04 (2006.01)
C10N 10/08 (2006.01)
C10N 10/10 (2006.01)
C10N 10/12 (2006.01)
C10N 30/00 (2006.01)
C10N 40/02 (2006.01)
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G06F 8/60 (2018.01)
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C11B 1/04 (2006.01)
A23L 29/256 (2016.01)
A61K 8/68 (2006.01)
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B66F 7/28 (2006.01)
B66F 5/04 (2006.01)
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C12N 1/14 (2006.01)

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C07D 519/00 (2006.01)
C12N 3/00 (2006.01)
C12P 17/18 (2006.01)
C12R 1/645 (2006.01)
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C11B 1/02 (2006.01)
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 Aindrila
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 thermal imager
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G06T 7/00 (2017.01)
G06T 7/11 (2017.01)
G06T 7/174 (2017.01)
G06T 7/194 (2017.01)
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 TSINGHUA UNIVERSITY
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 ING FOR GAS TURBINE BLADES
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F01D 5/20 (2006.01)
F01D 11/12 (2006.01)
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(11) AU-B-2021232560
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(54) Automated storage systems, and
 devices
(51) Int. Cl.
B60B 1/00 (2006.01)
B60B 1/02 (2006.01)
B60B 9/26 (2006.01)
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B65G 1/04 (2006.01)
B65G 1/137 (2006.01)
F25D 13/04 (2006.01)
F25D 17/00 (2006.01)
F25D 17/02 (2006.01)
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(71) OCTOPUS ENERGY HEATING LIM-
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(54) HEATING INSTALLATIONS, METH-
 ODS AND SYSTEMS
(51) Int. Cl.
F24D 19/10 (2006.01)
F24H 15/212 (2022.01)
F24H 15/262 (2022.01)
F24H 15/265 (2022.01)
F24H 15/375 (2022.01)
(87) WO2022/168049
(31) 2101678.7 **(32)** 07.02.21 **(33)** GB
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(54) METHODS AND SYSTEMS FOR
 MODIFYING HEATED WATER USAGE
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G05B 13/02 (2006.01)
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A47L 9/10 (2006.01)
A47L 5/24 (2006.01)
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A47B 88/00 (2017.01)
B65D 81/18 (2006.01)
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A61F 5/56 (2006.01)
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A61P 1/16 (2006.01)
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C07C 311/21 (2006.01)
C07C 311/29 (2006.01)
C07C 311/39 (2006.01)
C07C 311/46 (2006.01)
C07C 317/14 (2006.01)
C07D 205/04 (2006.01)
C07D 231/18 (2006.01)
C07D 233/20 (2006.01)
C07D 239/26 (2006.01)
C07D 257/04 (2006.01)
C07D 275/02 (2006.01)
C07D 277/36 (2006.01)
C07D 279/12 (2006.01)
C07D 295/26 (2006.01)
C07D 305/06 (2006.01)
C07D 309/08 (2006.01)
C07D 335/02 (2006.01)
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A61K 9/16 (2006.01)
A61K 9/20 (2006.01)

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A61K 31/198 (2006.01)
A61K 47/12 (2006.01)
A61K 47/18 (2017.01)
A61K 47/22 (2006.01)
A61K 47/44 (2017.01)
A61P 3/02 (2006.01)
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B09B 3/00 (2006.01)
E04H 13/00 (2006.01)
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C12N 9/06 (2006.01)
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A61K 47/56 (2017.01)
A61P 13/12 (2006.01)
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A01N 63/00 (2006.01)
C07K 14/415 (2006.01)
C12N 5/10 (2006.01)
C12N 15/09 (2006.01)
C12N 15/29 (2006.01)
C12N 15/79 (2006.01)
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C01B 15/043 (2006.01)
C01D 15/02 (2006.01)
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C10L 3/04 (2006.01)
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 tems
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 systems, methods of using, and meth-
 ods of manufacturing the same
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 HINE, Robert; DAVIS, Kathleen; WHIT-
 TOME, Samuel Edmund; TRIGGS,
 Emily Lucy; LIM SARRIAS, Merissa;
 WARREN, Jack; MITCHELL, Martyn;
 DOBSON, Barry; YU, Karen X.Z.
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 systems, methods of using, and meth-
 ods of manufacturing the same
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 HINE, Robert; DAVIS, Kathleen; WHIT-
 TOME, Samuel Edmund; TRIGGS,
 Emily Lucy; LIM SARRIAS, Merissa;
 WARREN, Jack; MITCHELL, Martyn;
 DOBSON, Barry; YU, Karen X.Z.
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 DEVICES, SYSTEMS, AND METHODS
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 A61F 5/442 (2006.01)
 A61F 5/455 (2006.01)
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 STARKIE, Joanna; LIM SARRIAS,
 Merissa; TRIGGS, Emily Lucy; WHIT-
 TOME, Samuel Edmund
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 LTD. see CHONGQING HAIER REFRIGER-
 ATION ELECTRIC APPLIANCE CO., LTD.
 (21) 2021343158

(71) Qingdao Kingagroot Chemical Com-
 pound Co., Ltd.
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 (54) Carboxylic acid derivative-substituted
 imino aryl compound, preparation meth-
 od therefor, herbicidal composition and
 use thereof
 (51) Int. Cl.
 C07D 239/22 (2006.01)
 A01N 43/54 (2006.01)
 C07D 239/54 (2006.01)
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 (54) Carboxylic acid derivative-substituted
 imino aryl compound, preparation meth-
 od therefor, herbicidal composition and
 use thereof
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 C07D 239/22 (2006.01)
 A01N 43/54 (2006.01)
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 (51) Int. Cl.
C07D 213/73 (2006.01)
A01N 43/40 (2006.01)
A01N 43/54 (2006.01)
A01N 43/58 (2006.01)
A01N 43/66 (2006.01)
A01P 13/00 (2006.01)
C07D 213/75 (2006.01)
C07D 401/12 (2006.01)
C07D 405/12 (2006.01)
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C07D 417/12 (2006.01)

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A01N 43/40 (2006.01)
A01N 43/54 (2006.01)
A01N 43/56 (2006.01)
A01N 43/78 (2006.01)
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A01P 13/00 (2006.01)

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G06F 16/954 (2019.01)
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H04L 25/03 (2006.01)
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A01K 67/027 (2006.01)
A61K 49/00 (2006.01)
C07K 14/47 (2006.01)
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B60L 53/62 (2019.01)
B60L 53/66 (2019.01)
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 Rifeng Enterprise Group Co., Ltd;
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B21D 41/02 (2006.01)
B29C 57/04 (2006.01)
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E04C 5/16 (2006.01)
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H04N 19/124 (2014.01)
H04N 19/119 (2014.01)
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G06F 1/16 (2006.01)
G09F 9/30 (2006.01)
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F21L 4/02 (2006.01)
H02G 1/08 (2006.01)
G01N 21/64 (2006.01)
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G06V 10/764 (2022.01)
G06T 3/40 (2006.01)
G06T 7/11 (2017.01)
G06V 10/82 (2022.01)
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G06K 7/10 (2006.01)
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A01N 25/02 (2006.01)
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A01P 1/00 (2006.01)
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F21V 31/00 (2006.01)
F21S 4/20 (2016.01)
F21V 15/00 (2015.01)
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C12N 5/0783 (2010.01)
C12N 5/10 (2006.01)
C12N 15/12 (2006.01)
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F03B 13/18 (2006.01)
B63B 22/04 (2006.01)
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A01D 41/12 (2006.01)
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F16M 11/24 (2006.01)
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G06Q 50/08 (2012.01)
G09F 5/00 (2006.01)
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E04B 1/58 (2006.01)
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A01G 25/16 (2006.01)
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(54) Double-layer osteochondral tissue repair stent and preparation method therefor
(51) Int. Cl.
A61L 27/24 (2006.01)
A61L 27/12 (2006.01)
A61L 27/20 (2006.01)
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(51) Int. Cl.

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A61H 39/00 (2006.01)
A61K 9/14 (2006.01)
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A61P 35/00 (2006.01)
A61P 35/02 (2006.01)
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F24F 3/147 (2006.01)
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2018218844	Saitama Medical University	2018359211	The Regents of the University of California
2018222912	Lycopodium Minerals Pty Ltd	2018359405	Corn Products Development, Inc.
2018223009	Conductix-Wampfler Pty Ltd	2018361950	NextKidney SA
2018226382	Deere & Company	2018362234	Rutgers, The State University of New Jersey
2018228352	Université de Lorraine; Centre Hospitalier Régional Universitaire de Nancy	2018363492	Coloplast A/S
2018230967	Medos International Sàrl	2018364352	Hettich-ONI GmbH & Co. KG
2018237549	Vaccinex, Inc.	2018364593	Angelcare Canada Inc.; International Refills Company Ltd.
2018240380	Graco Minnesota Inc.	2018366155	Neuronano AB
2018246333	Stichting Sanquin Bloedvoorziening; Stichting Het Nederlands Kanker Instituut-Antoni Van Leeuwenhoek Ziekenhuis	2018366953	GMT International
2018253475	Verdeloong Enterprises Pty Ltd	2018367395	Illinois Tool Works Inc.
2018253645	Hunter Douglas Industries B.V.	2018368000	TransMedics, Inc.
2018253948	ADC Therapeutics SA; MedImmune Limited	2018368950	Omniceil, Inc.
2018261457	Caterpillar Inc.	2018369233	Nichiha Corporation
2018271271	IGT	2018371964	WESTFALIA-Automotive GmbH
2018272327	Hy-Tech Drilling Ltd	2018376915	BASF SE
2018275881	Genzyme Corporation	2018379888	Zhuzhou CRRC Times Electric Co., Ltd
2018277095	Theaprin Pharmaceuticals, Inc.	2018382579	Societe des Produits Nestle S.A.
2018279184	Boehringer Ingelheim International GmbH	2018383108	Rapid Medical Ltd.
2018287319	Kainos Medicine Inc.	2018383125	The Catholic University of America
		2018385223	Metalogenia Research & Technologies S.L.
		2018385484	Alcon Inc.
		2018387007	Avient Protective Materials B.V.
		2018387681	DSM IP Assets B.V.
		2018389183	UPL Ltd
		2018389229	Rady, M.

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2018389608	Aperture in Motion, LLC	2019263233	The United States of America, as Represented by The Secretary, Department of Health and Human Services
2018390178	INNOVARIUS CORP.	2019263969	ORPHALAN
2018391507	Schülke & Mayr GmbH	2019264109	Engineering Services Rotorua Limited
2018395944	Woodstream Corporation	2019268743	Vale S.A.; Universidade Federal do Rio de Janeiro - UFRJ
2018426428	Prysmian S.p.A.	2019269815	Jiangsu Hansoh Pharmaceutical Group Co., Ltd.
2018435428	Wutthinitikornkit, Y.; Wutthinitikornkit, S.; Wuthinitikornkit, C.; Qiu, Y.	2019270779	Foundry Therapeutics, Inc.
2018436323	Guangdong OPPO Mobile Telecommunications Corp.,Ltd.	2019274523	Becton, Dickinson and Company
2018436718	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD.	2019276041	Depuy Ireland Unlimited Company
2018436895	VODOPIANOV, I.M.	2019280585	Caterpillar Inc.
2018438001	Rovi Guides, Inc.	2019280606	EuroChem Agro GmbH
2018449821	HungaroControl Zrt.	2019285846	H2GO Power Ltd
2019201442	Medos International Sarl	2019286055	HatchTech Group B.V.
2019202329	Simol S.p.A.	2019286658	oramed Ltd.
2019204136	Johnson & Johnson Consumer Inc.	2019287313	Otsuka Pharmaceutical Co., Ltd.
2019204274	ABUS August Bremicker Söhne KG	2019288275	Epigen Biosciences, Inc.
2019204453	Geberit International AG	2019289563	SynAct Pharma ApS
2019205117	GW Research Limited	2019290532	Compañía Electro Metalúrgica S.A.
2019205118	GW Research Limited	2019290533	Becton Dickinson and Company Limited
2019205192	Ferring B.V.	2019293389	Soilmec S.p.A.
2019207717	ViroPharma Biologics LLC	2019294292	FP BUSINESS INVEST
2019208166	Bioprojet	2019294497	Dentsply Sirona Inc.
2019208987	Freia Offshore AB	2019294827	Dialight Corporation
2019210723	Automated Rig Technologies Ltd.	2019298240	Dolby Laboratories Licensing Corporation; Dolby International AB
2019211025	WellGuard AS	2019300503	Alcon Inc.
2019213498	GrainSense Oy	2019301234	McNeil AB
2019213837	Valmont Industries, Inc.	2019302312	Beijing Tusen Zhitu Technology Co., Ltd.
2019214891	Apnimed, Inc. (Delaware)	2019302646	Capital One Services, LLC
2019217590	Karl Leibinger Medizintechnik GmbH & Co. KG.	2019302997	AZAD Pharma AG
2019217905	Cargill, Incorporated	2019303727	Myosa Pty Ltd
2019220437	Damen 40 B.V.	2019305122	Precision Planting LLC
2019221837	Memorial Sloan-Kettering Cancer Center; Tri-Institutional Therapeutics Discovery Institute, Inc.	2019306766	NPL Management Limited
2019222736	Lumos Pharma, Inc.	2019308833	Shamir Optical Industry Ltd.
2019223434	Fidia Farmaceutici S.p.A.	2019309390	Baxter International Inc.; Baxter Healthcare SA; Welch Allyn, Inc.
2019225473	Sheldon, B.	2019311848	Johnson & Johnson Surgical Vision, Inc.
2019225764	Depuy Ireland Unlimited Company	2019312205	Avent, Inc.
2019226049	Termotera Ltd.	2019313622	Panasonic Intellectual Property Corporation of America
2019227498	Genomics PLC	2019314054	LG Electronics Inc.
2019227733	Amazentis SA	2019314696	Biorem Engineering SA
2019228634	DJ Therapeutics LLC	2019316523	Husqvarna AB
2019230645	Sofi Filtration Oy	2019321069	Binding Solutions Ltd
2019231115	GeoOptics, Inc.	2019321096	Bermad CS Ltd.
2019231209	Amsted Rail Company, Inc.	2019321827	The Boots Company PLC
2019231708	Bitterly, S.	2019324575	SANDVIK MINING AND CONSTRUCTION TOOLS AB; SANDVIK MINING AND CONSTRUCTION AUSTRALIA (PRODUCTION/SUPPLY) PTY LTD
2019234185	Jubilant Prodel LLC.	2019329455	Sekisui House, Ltd.
2019234562	Pioneer Hi-Bred International, Inc.	2019333935	SmileSonica Inc.
2019234759	Biogen MA Inc.	2019340235	Universal Field Robots Pty Ltd.
2019234899	Otsuka Pharmaceutical Factory, Inc.	2019342090	International Refills Company Ltd.
2019236297	The United States of America, as represented by the Secretary, Department of Health & Human Services	2019343453	Hilti Aktiengesellschaft
2019236304	Avent Investment, LLC	2019346601	Shearwater GeoServices Software Inc.
2019236697	Miyakoshi Printing Machinery Co., Ltd.	2019346652	Align Technology, Inc.
2019238090	Viking Therapeutics, Inc.	2019350313	Dai Nippon Printing Co., Ltd.
2019242468	Fujitsu General Limited	2019361315	Well-SENSE Technology Limited
2019243544	Metso Brasil Indústria e Comércio Ltda.	2019362582	Vecor IP Holdings Limited
2019243667	Equinor Energy AS	2019369423	MJNN LLC
2019245514	Kazuar Advanced Technologies Ltd.	2019378091	Southern Cross Patents Pty Ltd
2019250243	Kao Germany GmbH	2019378143	Great North Research And Innovation Ltd
2019250263	The Boeing Company	2019382292	Exhalation Technology Limited
2019250980	Nanopharmaceuticals, LLC	2019387079	Amgen Inc.
2019251316	Alcon Inc.	2019390284	Cisco Technology, Inc.
2019252471	Henkel AG & Co. KGaA	2019391777	Netflix, Inc.
2019253712	PRC-DeSoto International, Inc.	2019396833	Leica Biosystems Melbourne Pty Ltd
2019255206	Icahn School of Medicine at Mount Sinai	2019404614	Leica Biosystems Melbourne Pty Ltd
2019257784	W.M. Barr & Company, Inc.	2019410073	F. HOFFMANN-LA ROCHE AG
2019260125	Amadeus S.A.S.	2019411787	NEC Platforms, Ltd.
2019262189	L.E.A.F. Holdings Group LLC	2019415587	Qingdao KingAgroot Chemical Compound Co., Ltd.
2019262624	Genzyme Corporation	2019426844	Horton, Inc.

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2020201917	McCain Foods Limited	2021240792	Ledlenser GmbH & Co. KG
2020222888	Ultima Genomics, Inc.	2021241498	Hazan, S.
2020228247	Korea Food Research Institute	2021250987	Institut Curie; INSERM (Institut National de la Sante et de la Recherche Medicale)
2020232982	Seed Terminator Holdings Pty Ltd	2021253684	Thales DIS France SAS
2020254682	Lynn, N.	2021253692	The Gillette Company LLC
2020264786	Nexter Systems	2021255118	Ocado Innovation Limited
2020265889	PARTING STONE, INC.	2021260175	Balsam International Unlimited Company
2020268686	Junction7 Limited	2021262336	Shaanxi Giant Biotechnology Co., Ltd
2020276510	Peg-Bio Biopharm Co., Ltd. (Chongqing); Hangzhou Grand Biologic Pharmaceutical Inc.	2021266857	STAEDTLER SE
2020277143	GENENTECH, INC.	2021273624	President and Fellows of Harvard College
2020282488	China Agricultural University	2021281120	Quixotic Labs Inc.
2020282974	CompoSecure, LLC	2021286279	Regeneron Pharmaceuticals, Inc.; Yale University; Institute for Research in Biomedicine (IRB)
2020283299	Taiho Pharmaceutical Co., Ltd.	2021287706	JCM American Corporation
2020294247	Kymab Limited	2021290482	Suzhou Reveda Medical Biotech Co., Ltd.
2020311281	Raytheon Company	2021291265	China Mobile Communication Co., Ltd Research Institute; China Mobile Communications Group Co., Ltd.
2020315758	Donaghys Limited	2021294859	International Business Machines Corporation
2020318823	Raytheon Company	2021294863	BURG LÜLING GMBH & CO. KG; USM U. Schärer Söhne AG
2020318991	Taylor-Listug, Inc. D/B/A Taylor Guitars	2021299304	PureWick Corporation
2020322972	Qingdao KingAgroot Chemical Compound Co., Ltd.	2021301112	Kinamed, Inc.
2020323961	Institute of Geochemistry, Chinese Academy of Sciences	2021301912	LG Electronics Inc.
2020327561	Umicore	2021304894	Melos GmbH
2020329466	I-Mab Biopharma Co., Ltd.; ABL Bio Inc.	2021305753	Huawei Technologies Co., Ltd.
2020336075	Graphic Packaging International, LLC	2021308709	Baker Hughes Oilfield Operations LLC
2020342613	Expro North Sea Limited	2021317263	Karnak Technologies, LLC
2020345562	USG Interiors, LLC	2021318678	Sekisui House, Ltd.
2020348603	Raytheon Company	2021319660	Huawei Technologies Co., Ltd.
2020375409	LG Electronics Inc.	2021321201	Micro Motion, Inc.
2020383668	Bambino Prezioso Switzerland AG	2021321476	Sato Holdings Kabushiki Kaisha
2020389657	Chongqing Upgra Biotechnology Co., Ltd.	2021321730	Huawei Technologies Co., Ltd.
2020391929	Lufthansa Technik AG	2021326249	Wan, X.
2020396809	Camsco Inc.	2021327342	Nippon Steel Corporation; Vallourec Oil and Gas France
2020405885	POSCO; Research Institute of Industrial Science & Technology	2021336228	Boston Scientific Scimed, Inc.
2020413555	Adlai Nortye Biopharma Co., Ltd.	2021336768	Colgate-Palmolive Company
2020418450	Inventio AG	2021339955	EuroChem Antwerpen
2020420734	Qingdao Kingagroot Chemical Compound Co., Ltd.	2021343158	CHONGQING HAIER REFRIGERATION ELECTRIC APPLIANCE CO., LTD.; QINGDAO HAIER REFRIGERATOR CO., LTD.; HAIER SMART HOME CO., LTD.
2020429125	Longi Green Energy Technology Co., Ltd.	2021345075	Yazaki Energy System Corporation
2020437843	Nippon Telegraph and Telephone Corporation	2021349067	Beijing Roborock Technology Co., Ltd.
2020437977	Nippon Telegraph and Telephone Corporation	2021349420	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
2020452061	ABB Schweiz AG	2021358855	FUTURE MOTION, INC.
2020453185	V-Glass, Inc.	2021359279	Suzhou Basecare Medical Device Co., Ltd.
2020467086	Daewoong Pharmaceutical Co., Ltd.	2021359790	SHANDONG UNIVERSITY; SHANDONG HI-SPEED GROUP CO., LTD.
2020472452	SABERT (ZHONGSHAN) LIMITED	2021360150	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.
2020477490	NOOTER/ERIKSEN, INC.	2021361368	Komatsu Ltd.
2021200127	President and Fellows of Harvard College	2021365222	NUCTECH COMPANY LIMITED; TSINGHUA UNIVERSITY
2021200190	Janssen Biotech, Inc.	2021365910	FUJIKURA LTD.
2021200281	AGENUS INC.; LUDWIG INSTITUTE FOR CANCER RESEARCH LTD; MEMORIAL SLOAN KETTERING CANCER CENTER	2021366961	PRECAST PERMEABLE CONCRETE AUSTRALIA PTY LTD
2021200984	Merck Sharp & Dohme LLC; Merck Sharp & Dohme B.V.	2021371164	COMPOSECURE, LLC
2021200988	Genzyme Corporation	2021372249	KASEYA US LLC
2021201640	Ablynx NV	2021372646	INFLOWCONTROL AS
2021201833	indurad GmbH	2021374066	NICOVENTURES TRADING LIMITED
2021202279	Kunming University of Science and Technology	2021374831	LTS LOHMANN THERAPIE-SYSTEME AG
2021202912	Bioverativ Therapeutics Inc.	2021376367	ELI LILLY AND COMPANY
2021207155	Northwest University	2021377247	MOOG INC.
2021207400	Axon Enterprise, Inc.	2021379629	Rifeng Enterprise (Foshan) Co., Ltd; Rifeng Enterprise Group Co., Ltd; Rifeng Technology Co., Ltd
2021211194	Wonderland Switzerland AG	2021382158	MIND MEDICINE, INC.
2021215985	Boston Scientific Scimed, Inc.	2021387072	LONGI GREEN ENERGY TECHNOLOGY CO., LTD.
2021221995	Praxair Technology, Inc.	2021392776	NUOVO PIGNONE TECNOLOGIE - S.R.L.
2021224972	Eberhard Karls Universitaet Tuebingen Medizinische Fakultaat	2021395262	KNORR-BREMSE SYSTEME FÜR SCHIENENFAHRZEUGE GMBH
2021229576	Inventio AG		
2021231211	Bambino Prezioso Switzerland AG		
2021232560	Ocado Innovation Limited		
2021232606	StubHub, Inc.		
2021237991	Omachron Intellectual Property Inc.		
2021238290	Vella Bioscience, Inc.		
2021239843	Digital Diagnostics Inc.		

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2021395683	INTERNATIONAL BUSINESS MACHINES CORPORATION	2022252844	GIANT MANUFACTURING CO., LTD.
2021416031	CHINA MOBILE COMMUNICATION CO., LTD RE-SEARCH INSTITUTE; CHINA MOBILE COMMUNICATIONS GROUP CO., LTD.	2022256090	University of Leicester; Omeros Corporation
2021424076	SAMSUNG ELECTRONICS CO., LTD.	2022261838	GOOGLE LLC
2021424267	WILHELM LAYHER VERWALTUNGS-GMBH	2022263410	GILEAD SCIENCES, INC.
2021429319	CRRC Qiqihar Rolling Stock Co., Ltd.	2022263508	Disney Enterprises, Inc.; ETH Zürich (Eidgenössische Technische Hochschule Zürich)
2021429593	Jiangsu Shemar Electric Co., Ltd.	2022264769	GOOGLE LLC
2021429765	Jiangsu Shemar Electric Co., Ltd.	2022264861	ANDRITZ HYDRO GMBH
2021433515	GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD.	2022266617	E INK CORPORATION
2021446393	INNOMOTICS GMBH	2022270686	CONOCOPHILLIPS COMPANY
2021451294	OPSEL PTY LTD	2022271442	Schlage Lock Company LLC
2021459856	CHIYODA CORPORATION; KYOTO UNIVERSITY	2022272224	Hanwha Corporation
2022200132	Shaanxi YuanGuang Hi-tech Co.,Ltd.	2022275470	OrsoBio, Inc.
2022200142	Merck Sharp & Dohme LLC	2022275472	Mitsubishi Power, Ltd.
2022201304	Dyno Nobel Inc	2022275538	Incyte Holdings Corporation
2022202200	Aristocrat Technologies Australia Pty Limited	2022277557	MARIUS PHARMACEUTICALS LLC
2022202276	CamelBak Products, LLC	2022283648	X Development LLC
2022202829	Steering Solutions IP Holding Corporation	2022286923	HONOR SYSTEMS LLC
2022203098	The United States of America, as Represented by the Secretary, Department of Health & Human Services	2022287557	i-SENS, Inc.
2022203110	The Trustees of The University of Pennsylvania	2022287562	Merck Sharp & Dohme LLC
2022203118	Inkerz Pty Ltd	2022291434	nChain Holdings Limited
2022203344	Entellus Medical, Inc.	2022291503	Season Bright (Cambodia) Electronic Lighting Co., Ltd
2022203494	4D Molecular Therapeutics Inc.	2022291504	INCYTE HOLDINGS CORPORATION
2022204001	Algesacooling Pty Ltd	2022291666	Anhui University of Science and Technology; China University of Mining and Technology
2022204492	Canva Pty Ltd	2022292104	DEEPMIND TECHNOLOGIES LIMITED
2022204532	FMC Corporation	2022297107	CHUGAI SEIYAKU KABUSHIKI KAISHA; OSAKA UNIVERSITY
2022204657	University of Maryland, Baltimore	2022297182	VMI HOLLAND B.V.
2022205131	Simon Fraser University	2022299062	UMICORE; UNIVERSITEIT GENT
2022205204	The University of Sydney	2022305655	Hanwha Corporation
2022205205	Whistler Technologies Corp.	2022307875	SHIH, C.
2022206794	Theia Group, Incorporated	2022315518	I4F LICENSING NV
2022206819	Canva Pty Ltd	2022330246	USTAV ORGANICKE CHEMIE A BIOCHEMIE AV CR, V. V. I.
2022208119	HANGZHOU AGS MEDTECH CO., LTD.	2022331906	Tongwei Solar (Meishan) Co., Ltd.
2022209109	NUOVO PIGNONE TECNOLOGIE - S.R.L.	2022335810	DAIKIN INDUSTRIES, LTD.
2022209271	The United States of America, as represented by the Secretary, Department of Health and Human Service; Kite Pharma, Inc.	2022336861	MIDWEST INNOVATIVE PRODUCTS, LLC
2022209306	Canva Pty Ltd	2022338321	NINGBO INSTITUTE OF MATERIALS TECHNOLOGY AND ENGINEERING, CHINESE ACADEMY OF SCIENCES
2022211357	PUREWICK CORPORATION	20223386086	ELC MANAGEMENT LLC
2022211909	Balance Ophthalmics, Inc.	20223388905	ELECTRIC POWER RESEARCH INSTITUTE OF YUNNAN POWER GRID CO., LTD
2022212145	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	2023200021	Apple Inc.
2022215155	Novartis AG	2023200219	AFL Telecommunications LLC
2022215201	UOP LLC	2023200280	Becton, Dickinson and Company
2022215955	OCTOPUS ENERGY HEATING LIMITED	2023200415	KABUSHIKI KAISHA TOSHIBA; TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION
2022216473	ARKEMA FRANCE	2023200555	Next2Sun GmbH
2022216534	OCTOPUS ENERGY HEATING LIMITED	2023200643	Getac Technology Corporation
2022218457	APR Co., Ltd.	2023201064	Aspen Aerogels, Inc.
2022218590	Data.world, Inc.; Jacob, B.K.; Loyens, J.; Griffith, D.L.; Hurt, B.A.; Le, T.M.; Reynolds, S.W.; Keen, A.A.; Boutros, J.; Zelenak, A.J.	2023201077	Apple Inc.
2022219979	NETFLIX, INC.	2023201543	Samsung Electronics Co., Ltd.
2022221405	Janssen Pharmaceutica NV	2023201871	Google LLC
2022224870	B. Braun Medical Inc.	2023201892	Memphasys Limited
2022224873	Wave Swell Energy Limited	2023201910	Impulse Downhole Solutions Ltd.
2022228194	ADAMA Makhteshim Ltd.	2023202074	Schneider Electric Industries SAS
2022228201	B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.	2023202401	Weatherford Technology Holdings, LLC
2022231694	Tissuegen, Inc.	2023202428	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
2022235607	Nordic Minesteel Technologies Inc.	2023202521	Bell Identification BV
2022241474	Xing Power Inc.	2023202587	Fraser, M.A.
2022241501	Veltek Associates, Inc.	2023202653	Tencent America LLC
2022241537	Unison Industries, LLC	2023202689	Bodor Laboratories, Inc.
2022241554	CNH Industrial America LLC	2023202798	Lin, C.
2022244941	SHANGHAI HAIYAN PHARMACEUTICAL TECHNOLOGY CO., LTD.; YANGTZE RIVER PHARMACEUTICAL GROUP CO., LTD.	2023202814	CMBlu Energy AG
2022246405	VIVORYON THERAPEUTICS N.V.	2023202872	Einhell Germany AG
2022246408	Canva Pty Ltd	2023203349	The Texas A & M University System
2022246415	Gomboc, LLC	2023203352	Seeley International Pty Ltd; FF Seeley Nominees Pty Ltd
		2023203750	Milwaukee Electric Tool Corporation; Griffith Hack

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2023203799 OHFG TECHNOLOGIES (SHANGHAI) CO., LTD
2023203862 GEMA S.r.l.
2023203863 GEMA S.r.l.
2023203996 Alpha Tau Medical Ltd.
2023204280 ADVANCED LITHIUM ELECTROCHEMISTRY CO.,
LTD.
2023204324 Giant Manufacturing Co., Ltd.
2023206075 Lashify, Inc.
2023206077 SASCO Australia Pty Ltd
2023206091 Zimmer, Inc.
2023206113 Limacorporate S.p.A.
2023208144 FUNCTION (QINGDAO) MARINE TECHNOLOGY CO.,
LTD.
2023208218 Guangdong Neat Packaging Co., LTD.
2023214339 Abiomed, Inc.
2023214347 Oscor, Inc.; Abiomed, Inc.
2023219831 RESC, LTD.
2023222852 Match Group, LLC
2023237151 Netflix, Inc.
2023241265 Geobruugg AG
2023254881 Samsung Electronics Co., Ltd.
2023258451 HANSHOW TECHNOLOGY CO., LTD.
2023263516 Netflix, Inc.
2023282284 Apple Inc.
2023284477 ZEYRRO PTY LTD
2023286024 Deciphera Pharmaceuticals, LLC
2023290599 COOPERVISION INTERNATIONAL LIMITED
2023336075 SHANDONG WEIFANG RAINBOW CHEMICAL CO.,
LTD
2023375284 SAS INSTITUTE INC.
2024201690 Dolby Laboratories Licensing Corporation
2024202878 DRAEGER SAFETY AG & CO. KGAA
2024203482 Kao, H.
2024203744 Ultima Genomics, Inc.

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2019369423	2018368000	<u>A01P 3 /-</u>	2023202587	2017437703	<u>A61C 19 /-</u>
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<u>A01D 57 /-</u>	<u>A01N 31 /-</u>	<u>A23C 9 /-</u>	<u>A45C 11 /-</u>	<u>A47L 9 /-</u>	2019346652 2021451294
2018204353	2018391507	2017287987 2017287988	2022368661	2021237991	<u>A61C 8 /-</u>
<u>A01F 12 /-</u>	<u>A01N 37 /-</u>	<u>A23D 9 /-</u>	<u>A45D 26 /-</u>	<u>A61B 1 /-</u>	2019217590
2020232982	2018314562 2019314696 2022228194	2019217905	2023206075	2022203344	<u>A61F 11 /-</u>
<u>A01F 25 /-</u>	<u>A01N 39 /-</u>	<u>A23G 1 /-</u>	<u>A45D 33 /-</u>	<u>A61B 17 /-</u>	2018389608 2023202872
2018214140	2018314562 2018352050 2018376915 2018389183 2018391507 2019415587 2020322972 2020420734 2021339955 2022204532 2022228194	2018382579	2023284477	2018230967 2019201442 2019225764 2019236304 2019276041 2019378091 2021301112 2021336228 2022203344 2022204657 2022208119 2023206091	<u>A61F 13 /-</u>
<u>A01G 23 /-</u>	<u>A01N 43 /-</u>	<u>A23K 10 /-</u>	<u>A45D 34 /-</u>	<u>A61B 18 /-</u>	2018318386
2019264109	2018314562	2020228247	2023284477	2018304851 2019312205 2021224972	<u>A61F 2 /-</u>
<u>A01G 24 /-</u>	<u>A01N 47 /-</u>	<u>A23K 20 /-</u>	<u>A45D 40 /-</u>	<u>A61B 3 /-</u>	2018389608 2019201442 2019300503 2021215985 2021301112 2022203110 2022246415 2023206091 2023206113
2020375409	2018314562 2018352050 2018376915 2018389183 2018391507 2019415587 2020322972 2020420734 2021339955 2022204532 2022228194	2018387681	2023284477	2018330035 2018389608 2019251316 2021239843	<u>A61F 5 /-</u>
<u>A01G 25 /-</u>	<u>A01N 51 /-</u>	<u>A23L 29 /-</u>	<u>A45F 5 /-</u>	<u>A47B 88 /-</u>	2018363492 2019303727 2021299304 2021451294 2022211357
2018226382 2018319222	2018314562	2018359405 2020228247 2020477490	2022368661	2018368950	
<u>A01G 31 /-</u>	<u>A01N 57 /-</u>	<u>A23L 33 /-</u>	<u>A46B 15 /-</u>	<u>A47C 1 /-</u>	
2019369423	2017287987 2017287988 2020228247	2023284477	2021253692	2017435057	
<u>A01G 9 /-</u>	<u>A23L 7 /-</u>	<u>A47B 88 /-</u>	<u>A47B 88 /-</u>		
2020375409	2018387681	2018368950	2018368950		

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A61F 9 /-	2021374831	2017294276	2019250243	A61M 25 /-	A61P 25 /-
	2021376367	2017299673	2019321827		
	2021433515	2017300361	2020477490	2018383108	2018287319
2018385484	2022205204	2017302539	2021336768	2022203344	2019208166
2022203098	2022205205	2017317227	2022386086	2023214347	2019214891
2022211909	2022209271	2017345203	2023202689		2019234759
	2022221405	2017345786		A61M 29 /-	2019263969
A61G 17 /-	2022244941	2018204986			2019270779
	2022263410	2018212887	A61K 9 /-	2022203344	2021382158
2020265889	2022275538	2018237549	2017261357		2022221405
	2022277557	2018279184	2017336249	A61M 5 /-	2022246405
A61G 99 /-	2022287562	2020277143	2018212887		
	2022291504	2020283299	2018277095	2023200280	
2020265889	2022307875	2020294247	2018296678		
	2022330246	2020329466	2018304373	A61M 60 /-	
A61H 23 /-	2023202689	2021200190	2018309667		
	2023203349	2021200281	2018325148	2018316543	2019311848
2022218457	2023286024	2022200142	2018347514	2023214339	2021433515
		2022256090	2019205117		
A61H 39 /-	A61K 33 /-	2022297107	2019205118	A61N 1 /-	
			2019205192		2019270779
2022200132	2019234899	A61K 45 /-	2019207717	2018366155	2021374831
	2019302997		2019234899	2018390178	2021433515
A61J 1 /-	2020315758	2017290709	2019269815	2019236304	2022287562
	2022200132	2018253948	2019270779	2022218457	
2018368000	2023203996	2018277095	2019286658		A61P 3 /-
2019290533		2019214891	2019287313	A61N 5 /-	
	A61K 35 /-	2020277143	2019301234		2019234899
A61J 3 /-		2020283299	2020315758	2019204136	2020228247
	2016318773	2020389657	2021200127	2022200132	2022263410
2022224870	2016377166	2022256090	2021238290	2022218457	
	2017277396	2022297107	2021317263	2023203996	A61P 31 /-
A61K 31 /-	2017287987	2023286024	2021374831		
	2017287988		2021433515	A61N 7 /-	2016377166
2017261357	2018207649	A61K 47 /-	2022200132		2018228352
2017286561	2018228352		2022203494	2018390178	2019287313
2018253948	2018246333	2017261357	2022215155	2019204136	2019302997
2018277095	2019311848	2017336249	2022221405		
2018287319	2020228247	2018253948	2022231694	A61P 1 /-	A61P 33 /-
2018296678	2022200132	2018296678			
2018301829	2022203494	2019234899	A61L 15 /-	2018309667	2020315758
2018304373	2023201892	2019262189		2018347514	A61P 35 /-
2018309342		2019269815	A61L 2 /-	2019222736	
2018309667	A61K 36 /-	2019287313		2019263969	2016318773
2018325148		2020276510	A61L 2 /-	2020228247	2017261357
2019204136	2018309342	2020315758		2022263410	2017273959
2019205117	2019311848	2020389657	A61L 2 /-	2022275470	2017294276
2019205118	2020477490	2021238290			2017299673
2019207717	2021241498	2021374831	A61L 27 /-	A61P 11 /-	2017317227
2019208166	2022205205	2021382158			2017345203
2019214891		2021433515	A61L 27 /-	2017273959	2018212887
2019222736	A61K 38 /-	2022277557		2019214891	2018237549
2019228634			A61L 15 /-		2018253948
2019234759	2017271606	A61K 48 /-		A61P 13 /-	2019234185
2019234899	2017336249		2019223434		2019250980
2019238090	2018213044	2021200988		2017287988	2019269815
2019250980	2018347514	2021273624	A61L 9 /-	2018347514	2019410073
2019255206	2019222736			2019289563	2020277143
2019262189	2019255206	A61K 49 /-	2022241501	2020276510	2020329466
2019263969	2019286658				2020389657
2019269815	2020276510	2021286279	A61M 1 /-	A61P 17 /-	2021376367
2019270779	2021202912				2022205204
2019287313	2022231694	A61K 51 /-	2017437176	2018309342	202244941
2019289563			2018361950	2019204136	202246405
2019301234	A61K 39 /-	2017300361	2018389608	2022275538	2022275538
2019311848		2017302539			2022291504
2020277143	2017261357	2023203996	A61M 11 /-	A61P 19 /-	2022297107
2020283299	2017271606				2022330246
2020315758	2017273959	A61K 8 /-	2018304851	2017287987	2023203996
2020413555	2017274444			2020276510	2023286024
2021200988	2017277396	2018309342	A61M 16 /-		
2021238290	2017286561	2018313859		A61P 23 /-	
2021241498	2017290709	2019204136	2021451294		A61P 37 /-
2021317263				2019270779	
					2017317227

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2020413555	2019226049		<u>B32B 3 /-</u>	<u>B60R 21 /-</u>	<u>B62D 33 /-</u>
2022246405	2023202798	<u>B25C 1 /-</u>	2018387007	2021231211	2023203862
2022275538		2018336626		2023203862	2023203863
<u>A61P 43 /-</u>	<u>B01D 57 /-</u>	2018367395	<u>B32B 37 /-</u>	2023203863	
	2023201892				<u>B62D 53 /-</u>
2019263969		<u>B25D 11 /-</u>	2018387007	<u>B60R 22 /-</u>	2018371964
2020283299	<u>B01D 65 /-</u>	2023206091	<u>B32B 5 /-</u>	2020383668	
2022297107	2019230645				<u>B62D 55 /-</u>
2023202689		<u>B25D 17 /-</u>	2018387007	<u>B60R 25 /-</u>	2018261457
<u>A61P 5 /-</u>	<u>B01F 23 /-</u>	2023206091	<u>B32B 7 /-</u>	2023200021	
2022277557	2018333031				<u>B62K 11 /-</u>
<u>A61P 7 /-</u>	<u>B01L 3 /-</u>	<u>B25F 5 /-</u>	2018387007	<u>B60S 5 /-</u>	2021358855
	2019396833	2023202872	2019350313	2020396809	
2017287988		<u>B25H 3 /-</u>	<u>B42D 25 /-</u>	<u>B60S 9 /-</u>	<u>B62K 23 /-</u>
<u>A61P 9 /-</u>	<u>B02C 17 /-</u>	2022368661	2021253684	2019202329	2022252844
2017273959	2019290532				<u>B62K 25 /-</u>
<u>A61Q 11 /-</u>	<u>B03D 1 /-</u>	<u>B25J 5 /-</u>	<u>B60B 1 /-</u>	<u>B60T 1 /-</u>	2023204324
	2022216473	2019340235	2021232560	2021395262	
2021336768		<u>B25J 9 /-</u>	<u>B60B 9 /-</u>	<u>B60T 17 /-</u>	<u>B62M 25 /-</u>
<u>A61Q 19 /-</u>	<u>B05B 1 /-</u>	2019340235	2021232560	2018371964	2022252844
	2018226382			2021395262	<u>B63B 1 /-</u>
2019204136	2018304851	<u>B26D 1 /-</u>	<u>B60C 7 /-</u>	<u>B60W 40 /-</u>	2018436895
2019321827		2020201917	2020396809	2018203881	2019208987
2022386086	<u>B05B 11 /-</u>		<u>B60C 99 /-</u>		
<u>A61Q 5 /-</u>	2023208218	<u>B26D 3 /-</u>	2020396809	<u>B61B 1 /-</u>	<u>B63B 21 /-</u>
2019250243		2020201917		2017431376	2019208987
<u>A63B 21 /-</u>	<u>B05B 7 /-</u>	<u>B28B 11 /-</u>	<u>B60D 1 /-</u>		2019220437
	2021301112	2022270686	2018371964	<u>B61B 13 /-</u>	<u>B63B 22 /-</u>
2023203799	<u>B05C 3 /-</u>	2022270686	2019202329	2017431376	2018356527
<u>A63B 69 /-</u>	2019396833	<u>B28B 13 /-</u>	<u>B60G 17 /-</u>	<u>B61D 19 /-</u>	<u>B63B 3 /-</u>
		2022270686	2023204324	2017431376	2018436895
2018323631	<u>B07B 4 /-</u>	<u>B28C 7 /-</u>	<u>B60J 5 /-</u>	<u>B61D 3 /-</u>	<u>B63B 35 /-</u>
<u>A63C 17 /-</u>	2019362582	2017436163	2023203862	2021429319	2019208987
			2023203863		2019220437
2021358855	<u>B07B 9 /-</u>	<u>B29C 35 /-</u>	<u>B60K 35 /-</u>	<u>B61F 1 /-</u>	<u>B63B 39 /-</u>
<u>B01D 1 /-</u>	2019362582	2018349085	2020396809	2021429319	2018436895
2019231708		<u>B29C 51 /-</u>	<u>B60L 5 /-</u>	<u>B61F 5 /-</u>	<u>B63H 1 /-</u>
<u>B01D 11 /-</u>	2019257784	2017202923	2018379888	2019231209	2020452061
		<u>B29C 57 /-</u>	<u>B60L 53 /-</u>	<u>B61H 1 /-</u>	
2022205205	<u>B09B 3 /-</u>	2021379629	2023219831	2021395262	<u>B63H 11 /-</u>
<u>B01D 15 /-</u>	2020265889	<u>B29C 64 /-</u>	<u>B60L 58 /-</u>	<u>B61H 13 /-</u>	2022202829
2022215201	2021202279	2019253712	2023219831	2021395262	<u>B63H 21 /-</u>
<u>B01D 29 /-</u>	<u>B21D 41 /-</u>	<u>B29C 65 /-</u>	<u>B60N 2 /-</u>	<u>B62B 7 /-</u>	2022202829
	2021379629	2023214347	2020383668	2021211194	<u>B63H 25 /-</u>
2018366953	<u>B23D 43 /-</u>	2018369233	2021231211	<u>B62D 15 /-</u>	2022202829
<u>B01D 3 /-</u>	2023206091	2019350313	<u>B32B 27 /-</u>	2018371964	<u>B64C 1 /-</u>
					2019250263
2019231708	<u>B23D 45 /-</u>		<u>B60P 1 /-</u>		2020391929
2022215201	2019316523		2018214140		
<u>B01D 35 /-</u>	<u>B25B 9 /-</u>				
	2023206075				
2018366953					
<u>B01D 53 /-</u>					

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<u>B64C 21 /-</u>	2022241501	2020396809	<u>C04B 14 /-</u>	<u>C07C 317 /-</u>	<u>C07D 263 /-</u>
2020391929	<u>B65D 83 /-</u>	<u>B67C 3 /-</u>	2017436163	2022275470	2019288275
<u>B64D 11 /-</u>	2022241501	2021290482	2018383125		2021339955
2017435057	2023208218	<u>B67D 7 /-</u>	<u>C04B 18 /-</u>	<u>C07C 63 /-</u>	<u>C07D 265 /-</u>
<u>B65B 39 /-</u>	<u>B65D 85 /-</u>	2018240380	2017436163	2019228634	2019234185
2021290482	2017424987	<u>B82Y 30 /-</u>	2018383125	<u>C07D 205 /-</u>	<u>C07D 275 /-</u>
<u>B65B 57 /-</u>	2018364593	<u>C04B 20 /-</u>	<u>C04B 20 /-</u>	2022275470	2022275470
2022297182	<u>B65D 88 /-</u>	2018203875	2018383125	<u>C07D 207 /-</u>	<u>C07D 277 /-</u>
<u>B65B 61 /-</u>	2018214140	<u>C01B 15 /-</u>	<u>C04B 22 /-</u>	2019234185	2021339955
2022297182	2018222912	2020405885	2017436163	<u>C07D 209 /-</u>	2022275470
<u>B65B 9 /-</u>	<u>B65F 1 /-</u>	<u>C01B 21 /-</u>	2018383125	2019234185	<u>C07D 279 /-</u>
2022297182	2019342090	2023202798	<u>C04B 24 /-</u>	2023203349	2022275470
<u>B65D 17 /-</u>	<u>B65G 1 /-</u>	<u>C01B 3 /-</u>	2017436163	<u>C07D 211 /-</u>	<u>C07D 285 /-</u>
2017424987	2021255118	2019285846	<u>C04B 28 /-</u>	2019234185	2022246405
<u>B65D 21 /-</u>	<u>B65G 23 /-</u>	<u>C01B 32 /-</u>	2017436163	<u>C07D 213 /-</u>	<u>C07D 295 /-</u>
2023284477	2019268743	2023202798	2018383125	2019234185	2019208166
<u>B65D 30 /-</u>	<u>B65G 39 /-</u>	<u>C01B 33 /-</u>	<u>C04B 33 /-</u>	2019415587	2022275470
2018364593	2019243544	2019362582	2019362582	2022205204	<u>C07D 305 /-</u>
<u>B65D 33 /-</u>	<u>B65G 43 /-</u>	2023201064	<u>C04B 35 /-</u>	2022275470	
2018364593	2019268743	<u>C01D 15 /-</u>	2019362582	<u>C07D 221 /-</u>	2022275470
<u>B65D 41 /-</u>	<u>B65H 16 /-</u>	2020405885	<u>C04B 40 /-</u>	2019234185	<u>C07D 307 /-</u>
2019252471	2019342090	<u>C01D 3 /-</u>	2017436163	2022244941	2019221837
<u>B65D 43 /-</u>	<u>B65H 18 /-</u>	2018346086	<u>C05G 3 /-</u>	<u>C07D 231 /-</u>	2020467086
2017202923	2019236697	<u>C02F 1 /-</u>	2019280606	2019288275	2022205204
2019342090	<u>B65H 75 /-</u>	2018346086	2021339955	2022275470	<u>C07D 309 /-</u>
<u>B65D 47 /-</u>	<u>B66B 23 /-</u>	2018366953	<u>C07C 13 /-</u>	<u>C07D 233 /-</u>	2022275470
2019252471	2021229576	2019231708	2019228634	2019288275	<u>C07D 311 /-</u>
2022202276	<u>B66B 31 /-</u>	2022299062	<u>C07C 211 /-</u>	2022275470	2019227733
<u>B65D 5 /-</u>	<u>B66B 5 /-</u>	<u>C02F 101 /-</u>	2019263969	2022246405	<u>C07D 317 /-</u>
2017424987	2020418450	2022299062	<u>C07C 217 /-</u>	<u>C07D 235 /-</u>	2022205204
2020336075	<u>B66C 13 /-</u>	<u>C02F 103 /-</u>	2019234185	2022246405	<u>C07D 239 /-</u>
<u>B65D 51 /-</u>	2018223009	2022299062	<u>C07C 229 /-</u>	2019288275	2022275470
2023284477	2018314391	<u>C02F 3 /-</u>	2020420734	2020420734	2022275470
<u>B65D 71 /-</u>	<u>B66F 5 /-</u>	2022299062	2022275470	<u>C07D 241 /-</u>	<u>C07D 401 /-</u>
2017424987	2020418450	<u>C02F 9 /-</u>	<u>C07D 249 /-</u>	2022205204	2019208166
<u>B65D 77 /-</u>	<u>B66F 7 /-</u>	2019231708	2022244941	2022244941	2019288275
2018299640	2022235607	<u>C03C 27 /-</u>	2019234185	2019415587	2020413555
2020336075	<u>C04B 103 /-</u>	2020453185	<u>C07C 255 /-</u>	2022244941	2022246405
<u>B65D 81 /-</u>	2022235607	2017436163	2019234185	2022246405	2022263410
2018368950	<u>B66F 9 /-</u>	2018383125	<u>C07C 29 /-</u>	<u>C07D 257 /-</u>	2022287562
			2023336075	2022275470	<u>C07D 403 /-</u>
			<u>C07C 311 /-</u>	<u>C07D 261 /-</u>	2019234185
			2022275470	2019288275	2022244941
					2022246405

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<u>C07D 405 /-</u>	<u>C07D 498 /-</u>	<u>C08G 59 /-</u>	<u>C11B 1 /-</u>	<u>C12N 7 /-</u>	<u>C40B 50 /-</u>
2019234185 2019415587 2022263410	2019221837 2022244941 2022291504	2019343453	2018344497 2020477490 2023208144	2018357917 2021286279 2022203494	2021359279
<u>C07D 409 /-</u>	<u>C07D 513 /-</u>	2022216473	<u>C11B 3 /-</u>	<u>C12N 9 /-</u>	<u>D03D 47 /-</u>
2019415587 2020420734 2022263410	2021339955	<u>C08G 65 /-</u>	2019217905 2023208144	2020276510 2021286279	2019294292
<u>C07D 413 /-</u>	<u>C07D 519 /-</u>	2018357917	<u>C11D 1 /-</u>	<u>C12P 17 /-</u>	<u>D06F 39 /-</u>
2019221837 2019288275 2019415587 2021376367 2022244941 2022263410 2022287562	2021207155	<u>C08J 3 /-</u>	2018357917 2019257784	2021207155	2019252471
<u>C07D 417 /-</u>	<u>C07F 9 /-</u>	2021266857	<u>C11D 3 /-</u>	<u>C12P 19 /-</u>	<u>E01B 13 /-</u>
2019234759 2019415587 2021339955 2021376367 2022244941 2022246405 2022287562	2019238090 2022275470	<u>C08J 7 /-</u>	2019257784	2021273624	2018362234
<u>C07D 451 /-</u>	<u>C07H 21 /-</u>	2019253712	<u>C11D 7 /-</u>	<u>C12P 21 /-</u>	<u>E01B 3 /-</u>
2022275470	2021273624 2022330246	<u>C08K 5 /-</u>	2019257784 2022241501	2017303205 2018204986 2021200190	2018362234
<u>C07D 471 /-</u>	<u>C07K 14 /-</u>	2021327342	<u>C12G 3 /-</u>	<u>C12Q 1 /-</u>	<u>E01C 11 /-</u>
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<u>C07D 487 /-</u>	<u>C07K 16 /-</u>	2021327342	<u>C12M 1 /-</u>	<u>C12R 1 /-</u>	<u>E01C 13 /-</u>
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<u>C07D 491 /-</u>	<u>C07K 19 /-</u>	2019343453	<u>C12N 15 /-</u>	<u>C21C 1 /-</u>	<u>E01C 15 /-</u>
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		<u>C10N 30 /-</u>	<u>C22C 37 /-</u>		<u>E02F 9 /-</u>
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(This list may contain multiple listings of a patent where there are multiple patentees for that patent.)

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 (21) 2021104592 (22) 27.07.2021
 (54) A Barrier Assembly and Methods of
 Use Thereof
 (51) Int. Cl.
B62D 55/088 (2006.01)
 (31) 2020902742 (32) 05.08.20 (33) AU
 (45) 01.08.2024
 (72) Cameron, Ashley
 (74) KINGS PATENT & TRADE MARKS AT-
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(71) Dam Buster IP Pty Ltd
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 (54) Rainhead
 (51) Int. Cl.
E04D 13/08 (2006.01)
 (31) 2016900590 (32) 19.02.16 (33) AU
 (45) 01.08.2024
 (72) Pockett, David John; Kirkwood, Russell
 John
 (74) WRAYS PTY LTD

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Opposition Proceedings

(The name in parentheses is that of the opponent)

Opposition Lodged

- 2018203749 **Joy Global Surface Mining Inc** (CQMS Pty Ltd)
- 2021294333 **Austin Star Detonator Company** (DetNet South Africa (Pty) Limited)

Patents Granted

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2016366548	2016379413	2017213812	2017216237
2017220100	2017221456	2017222231	2017228055
2017234192	2017261367	2017279683	2017292934
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2020259804	2020269164	2020282943	2020291900
2020295054	2020301385	2020313143	2020332673
2020351974	2020355421	2020357789	2020372823
2020374954	2020384216	2020384836	2020388522
2020394260	2020401934	2020402079	2020404865
2020416358	2020417294	2020418309	2020419367
2020426492	2020427144	2020427412	2020427793
2020428517	2020432994	2021200872	2021203237
2021203288	2021210170	2021210206	2021211708
2021220328	2021221828	2021222010	2021229984
2021232880	2021232892	2021238958	2021238988
2021240230	2021241695	2021244056	2021246427

Patents Granted

Standard Patents

2021246963	2021250976	2021256364	2021257402
2021257418	2021258056	2021260046	2021260551
2021261912	2021268887	2021269916	2021270781
2021278253	2021281590	2021291576	2021292943
2021303068	2021307687	2021315403	2021315582
2021316062	2021316972	2021319645	2021323257
2021325685	2021329277	2021335142	2021347181
2021348707	2021360580	2021372639	2021377807
2021380440	2021395816	2021404859	2021404860
2021409314	2021415772	2021428867	2021436510
2021441275	2021453593	2022200012	2022200321
2022200397	2022200442	2022200502	2022200666
2022200891	2022201057	2022201062	2022201121
2022201200	2022201254	2022201858	2022202009
2022202147	2022202266	2022202372	2022202489
2022202598	2022202673	2022203282	2022203369
2022203625	2022203651	2022203939	2022203946
2022204002	2022204003	2022204082	2022204217
2022204371	2022204640	2022204877	2022205187
2022205222	2022205251	2022206744	2022209275
2022209293	2022211797	2022215197	2022218520
2022218560	2022218571	2022221461	2022224838
2022224868	2022235518	2022241603	2022246448
2022253874	2022255586	2022259741	2022263531
2022268313	2022268330	2022271428	2022271759
2022279546	2022283686	2022283780	2022283783
2022290254	2022291410	2022291598	2022291622
2022295551	2022307514	2022318447	2022332692
2022345353	2023200098	2023200142	2023200164
2023200293	2023200334	2023200340	2023200342
2023200606	2023200898	2023200904	2023201063
2023201068	2023201395	2023201443	2023201560
2023201673	2023201816	2023201988	2023202005
2023202394	2023202684	2023203090	2023203129
2023203898	2023203965	2023214392	2023216843
2023222912	2023226659	2023233139	2023237019
2023249429	2023263533	2023282195	2023282303

Innovation Patents

2018102258

Assignments Registered

- 2004294229 **Neuromonics Pty Ltd** The patent has been assigned to **SoundVida, Inc.**
- 2005200402 **ALSTOM Transport Technologies** The patent has been assigned to **ALSTOM Holdings**
- 2008202379 **ALSTOM Transport Technologies** The patent has been assigned to **ALSTOM Holdings**
- 2008229894 **ALSTOM Transport Technologies** The patent has been assigned to **ALSTOM Holdings**
- 2008285458 **Rapid Diagnostics ML Ltd** The patent has been assigned to **Enigma Diagnostics IP Limited**
- 2008285464 **Rapid Diagnostics ML Ltd** The patent has been assigned to **Enigma Diagnostics IP Limited**
- 2008299209 **Interlock USA, Inc.** The patent has been assigned to **ASSA ABLOY Fenestration LLC**
- 2009200431 **ALSTOM Transport Technologies** The patent has been assigned to **ALSTOM Holdings**
- 2009208136 **Interlock USA, Inc.** The patent has been assigned to **ASSA ABLOY Fenestration LLC**

Assignments Registered

2010257236 BENDING SPOONS S.P.A. The patent has been assigned to **BENDING SPOONS OPERATIONS S.P.A.**

2011201482 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2011223999 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2011226790 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2011226947 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2012211515 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2013205669 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2013205670 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2013206015 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2013276982 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2013395156 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2013397474 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2014202594 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2014221300 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2014306564 ModMab Therapeutics Corporation The patent has been assigned to **Antlera Therapeutics Inc.**

2014337339 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2014363945 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2015200047 Interlock USA, Inc. The patent has been assigned to **ASSA ABLOY Fenestration LLC**

2015200162 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2015200529 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2015201055 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2015201301 Neuromonics Pty Ltd The patent has been assigned to **SoundVida, Inc.**

2015218419 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2015218567 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

Assignments Registered

2015221501 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2015224435 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2015238905 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2015264781 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2015287598 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2016200046 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016200631 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016201090 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016201318 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016202445 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016202611 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016203508 NZ Fire Doors Limited The patent has been assigned to **Pacific Door Systems Limited**

2016209247 Inhibrx, Inc. The patent has been assigned to **INHIBRX BIOSCIENCES, INC.**

2016234946 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016234948 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016238980 Interlock USA, Inc. The patent has been assigned to **ASSA ABLOY Fenestration LLC**

2016247234 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2016369607 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2016370940 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2016392604 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2017200982 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2017201453 Alstom Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2017202339 Neuromonics Pty Ltd The patent has been assigned to **SoundVida, Inc.**

2017202545 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

Assignments Registered

2017202589	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017203802	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017204030	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017204414	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017204468	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017207036	Optipro Corp Ltd.	The patent has been assigned to Premium Security AS
2017221813	Interlock USA, Inc.	The patent has been assigned to ASSA ABLOY Fenestration LLC
2017235902	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017235912	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017253941	Cabot, Jonathan	The patent has been assigned to Knee Balancer IP Pty Ltd
2017262949	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017268038	Cabot, Jonathan	The patent has been assigned to Knee Balancer IP Pty Ltd
2017268257	Nanostring Technologies, Inc.	The patent has been assigned to Bruker Spatial Biology, Inc.
2017268627	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017286238	Alstom Transport Technologies	The patent has been assigned to ALSTOM Holdings
2017361521	NanoString Technologies, Inc.	The patent has been assigned to Bruker Spatial Biology, Inc.
2017366502	Lee, Stewart Ping; Lee, David Wei	The patent has been assigned to HumanBody Space AI Medtech Group Pte. Ltd.
2018200225	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018200370	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018200512	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018200854	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018201890	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018201894	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018201898	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings

Assignments Registered

2018201907	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018201912	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018202689	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018202848	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018202873	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018203251	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018203796	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018222956	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018243309	Interlock USA, Inc.	The patent has been assigned to ASSA ABLOY Fenestration LLC
2018250530	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018253490	TechMah Medical LLC	The patent has been assigned to Lima USA, Inc.
2018264138	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2018278345	Interlock USA, Inc.	The patent has been assigned to ASSA ABLOY Fenestration LLC
2018288848	AEGEA Medical, Inc	The patent has been assigned to Coopersurgical, Inc.
2018318756	Psomagen, Inc.	The patent has been assigned to Macrogen Inc.
2018373675	Deutsches Krebsforschungszentrum; Ruprecht-Karls-Universitaet Heidelberg	The patent has been assigned to Deutsches Krebsforschungszentrum
2019100603	Pei si International (Beijing) Co.Ltd	The patent has been assigned to Pei Si Engineering Technology (Beijing) Co., Ltd.
2019100604	Pei si International (Beijing) Co.Ltd	The patent has been assigned to Pei Si Engineering Technology (Beijing) Co., Ltd.
2019200664	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2019200790	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2019201157	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2019201238	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2019201373	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings
2019201723	ALSTOM Transport Technologies	The patent has been assigned to ALSTOM Holdings

Assignments Registered

2019202570 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2019203080 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2019211465 Southern Eye Equipment Pty Ltd The patent has been assigned to **Mount Spec Investments Pty Ltd**

2019213311 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2019232853 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2019257418 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2019264513 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2019264562 ModMab Therapeutics Corporation The patent has been assigned to **Antlera Therapeutics Inc.**

2020200493 ALSTOM Transport Technologies The patent has been assigned to **ALSTOM Holdings**

2020205220 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2020210277 NanoString Technologies, Inc. The patent has been assigned to **Bruker Spatial Biology, Inc.**

2020286294 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2020289785 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2020294241 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2020333543 Mineral Earth Sciences LLC The patent has been assigned to **Deere & Co.**

2021202777 Aegea Medical Inc. The patent has been assigned to **Coopersurgical, Inc.**

2021277728 TechMah Medical LLC The patent has been assigned to **Lima USA, Inc.**

2021427503 Rotam Agrochem International Company Limited The patent has been assigned to **Albaugh Asia Pacific Limited**

Licences Registered - Section 187, Reg. 19

(The name in the parentheses is that of the licensee)

2015233175 Dyson Technology Limited (Dyson Appliances (Aust.) Pty Ltd)

Discharge of a Mortgage

2012388708 Discharge of a Mortgage was made in the Register on 22.07.2024 .

Extensions of Term of Standard Patents

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

Applications Filed

The following application(s) for Extension of Term under Section 70 have been made and are open for public inspection.

Extensions of Term of Standard Patents

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

Applications Filed

2011234398 **OGEDA SA**

The earliest first regulatory approval date provided by the patentee 26 Feb 2024

For the goods VEOZA fezolinetant

2014242906 **OGEDA SA**

The earliest first regulatory approval date provided by the patentee 26 Feb 2024

For the goods VEOZA fezolinetant

Applications Accepted

The following application(s) for Extension of Term have been accepted under Section 74.

Notice of opposition under Section 75(1) to the undermentioned application(s) for an extension of term may be filed at the Patent Office within the prescribed time.

2021203840 **Emory University**

The earliest first regulatory approval date provided by the patentee 20 Jan 2022

For the goods LAGEVRIO molnupiravir

Address for service : Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

2022200291 **Lobsor Pharmaceuticals Aktiebolag**

The earliest first regulatory approval date provided by the patentee 01 Sep 2023

For the goods LECIGON levodopa

Address for service : Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

Extensions granted

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

2020239682 **Lobsor Pharmaceuticals Aktiebolag**

The earliest first regulatory approval date provided by the patentee 01 Sep 2023

For the goods LECIGON levodopa

Extension of Term of patent pursuant to Section 77 expires on 01 Sep 2038

Corrigenda

In Vol 33 , No 35 , Page(s) 4969 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name PolyActiva Pty Ltd., Application No.2018233159, under INID (72) correct the co-inventor to D'Souza, Asha Marina

In Vol 34 , No 34 , Page(s) 4782 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Ishihara Sangyo Kaisha, Ltd., Application No. 2019219963, under INID (72) correct the inventor to read UESUSUKI, Yusuke

In Vol 57 , No 9 , Page(s) 1378 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name FERRO INTERNATIONAL IP INC., Application No. 2021314065, under INID (71) correct the applicant name to FERRO INTERNATIONAL INC.

Corrigenda

In Vol 58 , No 17 , Page(s) 2498 under the heading **Applications Accepted - Name Index** Under the name Ishihara Sangyo Kaisha, Ltd., Application No. 2019219963, under INID (72) correct the inventor to read UESUSUKI, Yusuke

In Vol 58 , No 17 , Page(s) 2514 under the heading **Applications Accepted - Name Index** Under the name PolyActiva Pty Ltd., Application No.2018233159, under INID (72) correct the co-inventor to D'Souza, Asha Marina

In Vol 58 , No 28 , Page(s) 4165 under the heading **Applications Accepted - Name Index** Under the name Merit Technologies (Fu Jian) Co. , Ltd., Application No. 2020404201, under INID (54) correct the title to read ZIPPER STRUCTURE FOR SUITCASES, AND TROLLEY BAG

Specifications Republished

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

- 2017376801 **BIORA THERAPEUTICS, INC.**
- 2018296421 **Subsea 7 Norway AS**
- 2020471756 **DOME MEDICAL TECHNOLOGIES, INC.**
- 2020471964 **ESSITY HYGIENE AND HEALTH AKTIEBOLAG**
- 2020473099 **ZHEJIANG SUPOR ELECTRICAL APPLIANCES MANUFACTURING CO., LTD.**
- 2020473307 **FORD GLOBAL TECHNOLOGIES, LLC**
- 2020483297 **RAZER (ASIA-PACIFIC) PTE. LTD.**
- 2021265798 **The Procter & Gamble Company**
- 2021327392 **Resolute Science Inc**
- 2021329906 **ENVIRO METALS, LLC**
- 2021331790 **WRAP TECHNOLOGIES, INC.**
- 2021334316 **MYOKARDIA, INC.**
- 2021339758 **PURINOMIA BIOTECH, INC.**
- 2021340002 **ASTRAZENECA UK LIMITED; DAIICHI SANKYO COMPANY, LIMITED**
- 2021342487 **SHATTUCK LABS, INC.**
- 2021342516 **MASTERBUILT MANUFACTURING, LLC**
- 2021345278 **WESTROCK SHARED SERVICES, LLC**
- 2021347368 **CARBON TECHNOLOGY HOLDINGS, LLC**
- 2021347979 **Danimer IPCo, LLC**
- 2021349252 **Danimer IPCo, LLC**
- 2021349343 **MYQOL LIMITED**
- 2021349772 **GONGWIN BIOPHARM CO., LTD**
- 2021351695 **COLGATE-PALMOLIVE COMPANY; KATHOLIEKE UNIVERSITEIT LEUVEN; UNIVERSITEIT GENT**
- 2021353091 **BOSTON SCIENTIFIC NEUROMODULATION CORPORATION**
- 2021353965 **AGOMAB SPAIN S.L.U.**
- 2021354769 **SMART & GREEN MUKRAN CONCRETE GMBH**
- 2021355969 **STUDIENGESELLSCHAFT KOHLE gGMBH**
- 2021356186 **WOAMY OY**
- 2021356262 **NOKIA TECHNOLOGIES OY**
- 2021356340 **XBIOTECH INC.**
- 2021356705 **MEDTRONIC, INC.**
- 2021357551 **ROHM AND HAAS COMPANY**
- 2021357691 **THERACOSBIO, LLC**
- 2021358080 **ZBIOTICS COMPANY**
- 2021358532 **COMMSCOPE TECHNOLOGIES LLC**
- 2021358533 **SCHLUMBERGER TECHNOLOGY B.V.**
- 2021358629 **Cohere Technologies, Inc.**
- 2021360782 **FIVE PRIME THERAPEUTICS, INC.**
- 2021360999 **URBAN SOFTWARE INSTITUTE GMBH**
- 2021361044 **C4 THERAPEUTICS, INC.**
- 2021361059 **GILEAD SCIENCES, INC.**
- 2021361100 **NEUROPLAST BEHEER B.V.**
- 2021361160 **DEERE & COMPANY**

Specifications Republished

- 2021361513 **NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY**
- 2021362667 **HILL'S PET NUTRITION, INC.**
- 2021363237 **HEBEI LANSHENG BIOTECH CO., LTD; HEBEI LAN-RUN PLANT PROTECTION TECHNOLOGY CO., LTD; HEBEI GUZHIRUN TECHNOLOGY CO., LTD**
- 2021364673 **LEGACY VENTURES LLC**
- 2021365147 **HILL'S PET NUTRITION, INC.**
- 2021366268 **THE GOVERNORS OF THE UNIVERSITY OF ALBERTA**
- 2021366325 **CHEMISCHE FABRIK DR. WEIGERT GMBH & CO. KG**
- 2021366672 **AXOGEN CORPORATION**
- 2021366678 **BECTON, DICKINSON AND COMPANY**
- 2021366719 **CATALYST ENERGY SERVICES LLC**
- 2021368285 **PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA**
- 2021369638 **METSO OUTOTEC FINLAND OY**
- 2021369934 **BOMBARDIER RECREATIONAL PRODUCTS INC.**
- 2021369935 **TILITER PTY LTD.**
- 2021373705 **THE ALFRED E. MANN FOUNDATION FOR SCIENTIFIC RESEARCH**
- 2021373711 **UNIVERSITY OF HOUSTON SYSTEM**
- 2021373873 **FLUX THERAPEUTICS, INC.**
- 2021375733 **AMGEN INC.; AMGEN RESEARCH (MUNICH) GMBH**
- 2021375740 **ESSITY HYGIENE AND HEALTH AKTIEBOLAG**
- 2021376396 **NEOIMMUNETECH, INC.; WASHINGTON UNIVERSITY**
- 2021378636 **DYNO NOBEL ASIA PACIFIC PTY LIMITED**
- 2021379051 **INTERNATIONAL BUSINESS MACHINES CORPORATION**
- 2021379306 **JANSSEN BIOTECH, INC.**
- 2021381054 **CELLIX BIO PRIVATE LIMITED**
- 2021382505 **BKT CO., LTD.**
- 2021383514 **BRYTE AS**
- 2021383680 **VEIR, INC.**
- 2021383931 **KARDION GMBH**
- 2021385073 **CARBON TECHNOLOGY HOLDINGS, LLC**
- 2021386629 **RHEINMETALL ELECTRONICS GMBH**
- 2021386707 **AESCULAP AG**
- 2021386880 **THE UNIVERSITY OF QUEENSLAND**
- 2021386881 **SAMARAWICKRAMA, C.D.**
- 2021387768 **FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.**
- 2021387774 **GRIFOLS WORLDWIDE OPERATIONS LIMITED**
- 2021387949 **TESTCARD LTD**
- 2021389670 **CRC CARE PTY LTD**
- 2021390705 **COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE; UNIVERSITE DE MONTPELLIER; ECOLE NATIONALE SUPÉRIEURE DE CHIMIE DE MONTPELLIER**
- 2021390998 **LART BIO CO., LTD; SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION; KYUNGSANGBUKDO (KYUNGSANGBUKDO LIVESTOCK RESEARCH INSTITUTE)**
- 2021391427 **ITRON GLOBAL SARL**
- 2021391977 **ORION CORPORATION**
- 2021392316 **INOVOBIOLOGIC, INC.**
- 2021392619 **MFTB Holdco, Inc.**
- 2021392836 **ELECTROLUX APPLIANCES AKTIEBOLAG**
- 2021396411 **HURLEY, J.**
- 2021396463 **TETHERS UNLIMITED, INC.**
- 2021396812 **GRACE, A.**
- 2021396824 **CASTARALO LTD.**
- 2021397400 **NICOVENTURES TRADING LIMITED**
- 2021398499 **CJ CHEILJEDANG CORPORATION**
- 2021399124 **YARA INTERNATIONAL ASA**
- 2021400179 **HUAWEI TECHNOLOGIES CO., LTD.**
- 2021400315 **EYEPOINT PHARMACEUTICALS, INC.**

Specifications Republished

2021400415 CHEVRON AUSTRALIA PTY LTD; CHEVRON U.S.A. INC.
 2021400495 THIRDWAYV, INC.
 2021400709 ILDONG PHARMACEUTICAL CO., LTD.
 2021401085 DYNAVAX TECHNOLOGIES CORPORATION
 2021401354 HENDRICKSON USA, L.L.C.
 2021401431 ABBOTT DIABETES CARE INC.
 2021401538 GENESIS SYSTEMS LLC
 2021401996 KINOXIS THERAPEUTICS PTY LTD
 2021401997 LENDLEASE DIGITAL IP PTY LIMITED
 2021402198 LINXENS HOLDING
 2021403089 BIOARDIS, LLC
 2021403745 PRECISION PLANTING LLC
 2021404944 PFIZER INC.
 2021405064 HYLER BV
 2021405281 CUREVAC SE; GLAXOSMITHKLINE BIOLOGICALS SA
 2021405296 FONTERRA CO-OPERATIVE GROUP LIMITED; AGRESEARCH LIMITED; ATTWOOD, G.T.; CROUZET, L.; BASSETT, S.A.; DEKKER, J.W.; HILL, J.P.; YOUNG, W.
 2021405498 TOKAMAK ENERGY LTD; IMPERIAL COLLEGE INNOVATIONS LIMITED
 2021405636 SAVENCIA SA
 2021406008 TAURUS GMBH & CO. KG
 2021406706 PRIME VECTOR TECHNOLOGIES GMBH
 2021407427 ZMAG, LTD.
 2021407526 WERLD AUSTRALIA PTY LTD
 2021409007 SUNLIGHTEN, INC.
 2021409231 QUALCOMM INCORPORATED
 2021409816 QILU REGOR THERAPEUTICS INC.
 2021409914 GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
 2021409949 SAGE PRODUCTS LLC
 2021410522 GAURIAN CORPORATION; KOLON E&C, INC.
 2021410635 KITE PHARMA, INC.
 2021410668 CHEMOCENTRYX, INC.
 2021411062 SABIC Agri-Nutrients Company
 2021411133 UNICHARM CORPORATION
 2021411189 I-SENS, INC.; SOGANG UNIVERSITY RESEARCH & BUSINESS DEVELOPMENT FOUNDATION
 2021411402 KEYFACTOR, INC.
 2021411478 STRYKER CORPORATION
 2021411594 THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS
 2021411950 CONVATEC TECHNOLOGIES INC.
 2021414006 DEERE & COMPANY
 2021416064 SHARKNINJA OPERATING LLC
 2021416089 GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
 2021418030 NEC CORPORATION
 2021418938 MICRO MOTION, INC.
 2021419833 NIPPON TELEGRAPH AND TELEPHONE CORPORATION
 2021426845 CHANNEL MEDSYSTEMS, INC.
 2021435646 ITRON, INC.
 2022202352 Arbutus Biopharma Corporation
 2022205604 GENOSCO INC.
 2022205682 MILLER SCIENTIFIC INC.
 2022206680 TRAFFIX DEVICES, INC.; NUTECH VENTURES
 2022207066 AGEX THERAPEUTICS, INC.
 2022207686 OSSTEC LIMITED
 2022208381 APPLIED MEDICAL RESOURCES CORPORATION
 2022211588 ARTEDRONE
 2022214135 SOCIETE DES PRODUITS NESTLE S.A.
 2022214612 SKELETAL DYNAMICS, INC.
 2022218707 ENERGY EXPLORATION TECHNOLOGIES, INC.
 2022219416 UVEX ARBEITSSCHUTZ GMBH
 2022219517 BOEHRINGER INGELHEIM INTERNATIONAL GMBH; CDR-LIFE AG

Specifications Republished

2023258373 Trina Solar Co., Ltd.; Trina Solar (Suqian) Photoelectric Co., Ltd.

PATENTS ACT 1990 (Cth)

Advertisement pursuant to rule 34.41 of the *Federal Court Rules 2011*

FCR 34.41 (1) (a) | IDENTITY OF PROCEEDINGS

Court: Federal Court of Australia
Victoria District Registry
Proceeding No. VID 524/2022

Parties: Perfect Day, Inc.
(Appellant)

and

Commissioner of Patents
(Respondent)

FCR 34.41 (1) (b) PARTICULARS OF PROPOSED AMENDMENTS

Perfect Day, Inc, the Applicant in respect of Australian Patent Application No. 2015305271 (**AU 271**) and Appellant in the above proceeding, will apply for an order under Section 105(1A) of the *Patents Act 1990* (Cth) directing the amendment of AU 271 as follows and as shown, in mark up against the version of AU 271 that is the subject of the amendment application dated 16 December 2022, in the **Annexure**:

1. Amend the spelling of "lacititol" to "lactitol" and "malititol" to "maltitol" on page 5, line 25; page 11, lines 10-11; page 12, lines 29-30; page 45, line 10; page 57, line 5; page 74, line 28; and page 77, line 8 of the specification.
2. Amend page 16, lines 25-26 of the specification to insert the phrase ", other than a cottage cheese or hard cheese," between the words "composition" and "comprising".
3. Amend page 16, line 28 of the specification to delete the words "one or".
4. Amend page 16a, line 6 of the specification to delete the word "leavening".
5. Amend claim 1 to insert ", other than a cottage cheese or a hard cheese," on line 1, and to delete "one or" on line 4 and "leavening" on line 13.
6. Delete previous claim 2.
7. Amend new claim 2 (previous claim 3) to delete "or 2" on line 1.
8. Delete previous claim 9.
9. Delete previous claim 10.
10. Amend new claim 9 (previous claim 12) to substitute "claim 8" for "claim 11".
11. Amend new claim 11 (previous claim 14) to substitute "lactitol" for "lacititol" and "maltitol" for "malititol" on line 4.
12. Amend new claim 15 (previous claim 18) to insert "whey" on line 2, and to delete "a cottage cheese," on line 3.

13. Delete previous claim 25.
14. Amend new claims 17, 18, 19, 20, 21, 22, 23, 24, 27 and 28 (previously claims 20, 21, 22, 23, 24, 26, 27, 28, 31 and 32, respectively) to substitute “claim 15” for “claim 18”.
15. Amend claims 25 and 26 (previous claims 29 and 30) to substitute “claim 7” for “claim 8”.
16. Amend new claim 28 (previous claim 32) to insert “whey” on line 1.
17. Amend new claim 31 (previous claim 35) to substitute “claim 1” for “claim 2” on line 1, insert “whey” on line 6, and to delete “a cottage cheese” on line 7.

FCR 34.41 (1) (c) APPELLANT’S ADDRESS FOR SERVICE

Pearce IP
Level 8, 350 Collins Street
Melbourne, Victoria, 3000
Attention: Naomi Pearce (naomi.pearce@pearceip.law)

FCR 34.41 (1) (c) RESPONDENT’S ADDRESS FOR SERVICE

The Australian Government Solicitor
Level 33, 300 George Street
Brisbane QLD 4000
Attention: Alexander Tate
(Alex.Tate@ags.gov.au)

FCR 34.41 (1) (d) OPPOSITION

Any person intending to oppose the application who is not a party to the proceeding must, within 28 days after publication of this advertisement, give written notice of that intention to each of the Appellant (Perfect Day, Inc.) and the Respondent (Commissioner of Patents).

2015305271 18 Jul 2024

ANNEXURE

**FOOD COMPOSITIONS COMPRISING RECOMBINANT MILK PROTEINS
AND METHODS OF PRODUCING THE SAME**

5

CROSS-REFERENCE TO RELATED APPLICATION

This application claims priority to U.S. Provisional Patent Application No. 62/040,393, filed on August 21, 2014, the entire contents of which are incorporated by reference.

10

FIELD OF THE INVENTION

The invention is directed to food compositions suitable as dairy substitutes, methods of manufacturing the same, and compositions comprising animal-free milk fats and proteins for food applications, such as milk, butter, cheese, yogurt, and cream.

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BACKGROUND OF THE INVENTION

The global dairy market is estimated at \$500 billion with an average annual growth rate of 4%. Bovine milk attributes to a significant portion of the market whereas plant-based alternatives account for \$1 billion in the US and an estimated \$700 million is estimated for lactose-intolerant milk. Bovine milk is known to have four specific caseins, α -s1-casein, α -s2-casein, β -casein, and κ -casein. Mammal- or mammalian-produced milk is a very complex fluid that includes several thousand components (e.g., if all triglycerides are identified). Mammal- or mammalin-produced milk includes water, variety of different lipids, sugar, a variety of different proteins, and a variety of different inorganic salts and compounds (see, e.g., Boland and Thompson (Eds), Milk Proteins from Expression to Food, Academic Press, 2014). Although mammal-produced milk, such as bovine milk, is considered by many to be an ideal source of nutrition, various milk alternatives to mammal- or mammalian-produced milk (e.g., bovine milk), such as plant- or nut-based milks, e.g., soy, almond, or coconut milk, have been pursued for reasons related to mammal- or mammalian-produced milk's allergenicity, lactose intolerance of certain components, personal preference, and the perceived environmental benefits of a reduced dairy industry.

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For example, the environmental impact resulting from dairy effluent can result in significant levels of nitrate which has the potential to contaminate groundwater.

Groundwater forms the main source of water supply for many towns and farms where surface water supplies are limited. In the US, half the population relies completely or partially on groundwater, and similar figures are available for Europe (see, e.g., https://www.vgls.vic.gov.au/client/en_AU/search/asset/1281606/0). The presence of foodborne pathogens in milk is due to direct contact with contaminated sources in the dairy farm environment and to excretion from the udder of an infected animal. Outbreaks of disease in humans have been traced to the consumption of unpasteurized milk and have also been traced back to pasteurized milk. The major contaminants usually encountered in milk and milk products include pesticide residues, heavy metals, and aflatoxin M1 (Awasthi et al., *Indian J. Public Health* 56:95-99, 2012).

Existing dairy milk alternatives, such as soy, almond, or coconut milk fall short both in flavor and in functionality; moreover, a large part of the industrial and cultural significance of dairy milk stems from its usefulness in derivative products, such as cheese, yogurt, cream, or butter. Non-dairy plant-based milks, while addressing environmental and health concerns (and while providing adequate flavor for a small segment of the population), almost universally fail to form such derivative products when subjected to the same processes used for dairy milk.

What is needed, therefore, is a food composition that is suitable as a dairy substitute that has desirable flavor and performance characteristics, e.g., a composition that replicates dairy flavors, minimizes foodborne pathogens, and has a lower environmental impact in production, while retaining the ability to be used for derivative or downstream applications of dairy milk and while providing a similar nutritional profile as a mammal- or mammalian-produced milk.

SUMMARY OF THE INVENTION

The present invention is based on the discovery that only a subset of components in mammal-produced milk can be used to generate a composition that has a similar flavor, a similar appearance, a similar nutritional value, a similar aroma, and a similar mouth feel of mammal-produced milk.

5 Provided herein are compositions including: about 0.3 g/L to about 1.1 g/L κ -casein protein; about 1.25 g/L to about 4.9 g/L β -casein protein; a final total concentration of one or more lipids of about 0 weight % to about 45 weight %; a final total concentration of one or more flavor compounds of about 0.01 weight % to about 6 weight %; a final total concentration of about 0.1 weight % to about 6 weight % of one or more sweetening agents; and a final total concentration of ash of about 0.15 weight % to about 1.5 weight %, where the composition does not include an animal-derived component.

10 Also provided are compositions that include: about 0.3 g/L to about 1.1 g/L κ -casein protein; about 1.25 g/L to about 4.9 g/L β -casein protein; a final total concentration of one or more lipids of about 0 weight % to about 45 weight %; a final total concentration of one or more flavor compounds of about 0.01 weight % to about 6 weight %; a final total concentration of about 0.1 weight % to about 6 weight % of one or more sweetening agents; and a final total concentration of ash of about 0.15 weight % to
15 about 1.5 weight %, where the composition: does not include at least one component found in a mammal-produced milk; includes at least one component not present in a mammal-produced milk; and/or includes a higher or lower concentration of at least one component as compared to the concentration of the at least one component in a mammal-produced milk. In some embodiments of these compositions, the composition includes a
20 higher concentration of at least one component selected from the group of: calcium, phosphate, B complex vitamins, vitamin A, vitamin D, vitamin E, and vitamin K, as compared to the concentration of the one or more components in a mammal-produced milk. In some embodiments of these compositions, the composition does not include at least one component found in a mammal-produced milk selected from the group of:
25 lactose, bacteria, mycobacteria, allergens, viruses, prions, yeast, growth hormones, leukocytes, antibiotics, heavy metals, immunoglobulins, lactoferrin, lactoperoxidase, and lipase. In some embodiments of these compositions, wherein the composition includes at least one component not present in a mammal-produced milk selected from the group of an artificial sweetener, a plant-derived lipid, a β -casein protein that is non-glycosylated or
30 has a non-mammalian glycosylation pattern, and a κ -casein protein that is non-glycosylated or has a non-mammalian glycosylation pattern.

Also provided are compositions including: about 0.3 g/L to about 1.1 g/L κ -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern; about 1.25 g/L to about 4.9 g/L β -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern; a final total concentration of one or more lipids of about 0 weight % to about 45 weight %; a final total concentration of one or more flavor compounds of about 0.01 weight % to about 6 weight %; a final total concentration of about 0.1 weight % to about 6 weight % of one or more sweetening agents; and a final total concentration of ash of about 0.15 weight % to about 1.5 weight %.

Also provided are composition including a micelle including a κ -casein protein and a β -casein protein, where the micelle has a diameter of about 50 nm to about 350 nm, and the κ -casein protein and the β -casein protein are unglycosylated or have a non-mammalian glycosylation pattern. In some embodiments of these methods, the compositions include a final concentration of micelles of about 2.0 weight % to about 6 weight %. In some embodiments of these compositions, the ratio of the β -casein protein to the κ -casein protein in the micelle is about 3.5:1 to about 5.5:1 (e.g., about about 4:1 to about 5:1). In some embodiments of these methods, the composition further includes: a final total concentration of one or more lipids of about 0 weight % to about 45 weight %; a final total concentration of one or more flavor compounds of about 0.01 weight % to about 6 weight %; a final total concentration of about 0.1 weight % to about 6 weight % of one or more sweetening agents; and a final total concentration of ash of about 0.15 weight % to about 1.5 weight %.

In some embodiments of any of the compositions described herein, the composition comprises about 0.27 weight % to about 0.75 weight % κ -casein protein and about 1.23 weight % to about 3.27 weight % β -casein. In some embodiments of any of the compositions described herein, the final total concentration of one or more lipids of is about 0 weight % to about 45 weight %.

In some embodiments of any of the compositions described herein, the one or more lipids are selected from the group consisting of: sunflower oil, coconut oil, tributyrin, mono- and di-glycerides, free fatty acids, and phospholipids. In some embodiments of any of the compositions described herein, the composition includes one of more of: a final concentration of sunflower oil of about 1 weight % to about 28 weight

%; a final concentration of coconut oil of about 0.5 weight % to about 14 weight %; a final concentration of tributyrin of about 0.05 weight % to about 1.0 weight %; a final total concentration of monoglycerides and diglycerides of about 0.08 weight % to about 1.2 weight %; a final total concentration of free fatty acids of about 0.02 weight % to about 0.28 weight %; and a final total concentration of phospholipids of about 0.02 weight % to about 0.3 weight percent. In some embodiments of any of the compositions described herein, the free fatty acids comprise at least one fatty acid selected from the group of: butyric acid, caproic acid, caprylic acid, and capric acid. In some embodiments of any of the compositions described herein, the phospholipids are soy lecithin phospholipids, sunflower lecithin phospholipids, cotton lecithin phospholipids, or rapeseed lecithin phospholipids. In some embodiments of any of the compositions described herein, the monoglycerides and diglycerides are plant-derived monoglycerides and diglycerides, or are bacteria-derived monoglycerides and diglycerides.

In some embodiments of any of the compositions described herein, the flavor compounds include at least one flavor compound selected from the group consisting of: δ -decalactone, ethyl butyrate, 2-furyl methyl ketone, 2,3-pentanedione, γ -undecalactone, and δ -undecalactone. In some embodiments of any of the compositions described herein, the one or more sweetening agents is a saccharide. In some embodiments of any of the compositions described herein, the saccharide is selected from the group consisting of: glucose, mannose, maltose, fructose, galactose, lactose, sucrose, monatin, and tagatose. In some embodiments of any of the compositions described herein, the one or more sweetening agents is an artificial sweetener. In some embodiments of any of the compositions described herein, the artificial sweetener is selected from the group of: stevia, aspartame, cyclamate, saccharin, sucralose, mogrosides, brazzein, curculin, erythritol, glycyrrhizin, inulin, isomalt, ~~laecitol~~lactitol, mabinlin, ~~malititol~~maltitol, mannitol, miraculin, monatin, monelin, osladin, pentadin, sorbitol, thaumatin, xylitol, acesulfame potassium, advantame, alitame, aspartame-acesulfame, sodium cyclamate, dulcin, glucin, neohesperidin dihydrochalcone, neotame, and P-4000.

In some embodiments of any of the compositions described herein, the ash includes one or more of: calcium, phosphorus, potassium, sodium, citrate, and chloride. In some embodiments of any of the compositions described herein, the ash comprises one

or more (e.g., one, two, or three) of CaCl₂, KH₂PO₄, and Na₃ citrate. In some
embodiments of any of the compositions described herein, the CaCl₂ has a final
concentration of about 0.05 g/L to about 0.2 g/L; the KH₂PO₄ has a final concentration of
about 0.2 g/L to about 0.4 g/L; and the Na₃ citrate has a final concentration of about 0.1
5 g/L to about 0.3 g/L.

In some embodiments of any of the compositions described herein, the κ -casein
protein is a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea
pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog,
wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan,
10 mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth κ -casein protein. In
some embodiments of any of the compositions described herein, the β -casein protein is a
cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig,
squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog,
wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan,
15 mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth β -casein protein.

In some embodiments of any of the compositions described herein, the
composition further includes: a final concentration of α -lactalbumin protein of about 0.4
weight % to about 2.5 weight %; and/or a final concentration of β -lactoglobulin protein
of about 2.5 weight % to about 4.5 weight %. In some embodiments of any of the
20 methods described herein, the α -lactalbumin protein is a cow, human, sheep, goat,
buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla,
chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant,
opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger,
echidna, or woolly mammoth α -lactalbumin protein. In some embodiments of any of the
25 compositions described herein, the β -lactoglobulin protein is a cow, human, sheep, goat,
buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla,
chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant,
opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger,
echidna, or woolly mammoth β -lactoglobulin protein.

30 In some embodiments of any of the compositions described herein, the
composition further includes: a final concentration of α -S1-casein protein of about 11

weight % to about 16 weight %; and/or a final concentration of α -S2-casein protein of about 2 weight % to about 5 weight %. In some embodiments of any of the compositions described herein, the α -S1-casein protein is a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth α -S1-casein protein; and/or the α -S2-casein protein is a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth α -S2-casein protein.

In some embodiments of any of the compositions described herein, the composition further includes one or more of: serum albumin, lactoferrin, and transferrin.

In some embodiments of any of the compositions described herein, the serum albumin is a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth serum albumin; the lactoferrin is a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth lactoferrin; and/or the transferrin is a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth transferrin protein.

Some embodiments of any of the compositions described herein, further include one or more color balancing agents. In some embodiments of any of the compositions described herein, the one or more color balancing agents is β -carotene or annatto. In

some embodiments of any of the compositions described herein, the composition has a pH of about 6.2 to about 7.2 (e.g., about 6.2 to about 6.8).

Also provided are compositions including: a mammalian-produced milk or a processed mammal-produced milk; and one or both of a κ -casein protein that is
5 unglycosylated or has a non-mammalian glycosylation pattern, and a β -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern. In some
embodiments of these methods, the final concentration of the κ -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern in the composition is 0.02
10 weight % to about 3.0 weight %. In some embodiments of these methods, the final concentration of the β -casein protein that is unglycosylated or has a non-mammalian
glycosylation pattern in the composition is 0.02 weight % to about 3.0 weight %. In some embodiments of these methods, the final concentration of the κ -casein protein that
is unglycosylated and/or has a non-mammalian glycosylation pattern in the composition is about 0.02 weight % to about 0.6 weight %; and the final concentration of the β -casein
15 that is unglycosylated and/or has a non-mammalian glycosylation pattern in the composition is about 0.02 weight % to about 2.5 weight %.

Also provided are powder compositions that include: a final concentration of κ -
casein protein of about 3.6 weight % to about 5.4 weight %; a final concentration of β -
casein protein of about 16.3 weight % to about 24.5 weight %; a final concentration of a
20 sweetening agent of about 35 weight % to about about 40 weight %; a final concentration of one or more lipids of about 25 weight % to about 30 weight %; a final concentration of
ash of about 5 weight % to about 7 weight %; and a final concentration of water of about 2 weight % to about 5 weight %, where the κ -casein protein is an unglycosylated and/or
has a non-mammalian glycosylation pattern, and/or the β -casein protein is an
25 unglycosylated and/or has a non-mammalian glycosylation pattern.

Also provided are nucleic acids that include: a promoter; a sequence encoding a
signal sequence; a sequence encoding a milk protein; and a yeast termination sequence,
where the promoter is operably linked to the signal sequence, the signal sequence is
operably linked to the sequence encoding the milk protein, and the terminal sequence is
30 operably linked to the sequence encoding the milk protein. In some embodiments of
these nucleic acids, the promoter is a constitutive promoter. In some embodiments of

these nucleic acids, the promoter is an inducible promoter. In some embodiments of these nucleic acids, the signal sequence is a signal sequence from the encoded milk protein or a different milk protein, or is a signal sequence from a yeast mating factor. In some embodiments of these nucleic acids, the encoded milk protein is selected from the group consisting of: β -casein, κ -casein, α -S1-casein, α -S2-casein, α -lactalbumin, β -lactoglobulin, lactoferrin, or transferrin. In some embodiments of these nucleic acids, the nucleic acid comprises a bacterial origin of replication. In some embodiments of these nucleic acids, the nucleic acid further includes a selection marker. In some embodiments of these nucleic acids, the selection marker is an antibiotic resistance gene.

Some embodiments of these nucleic acids further include: an additional promoter sequence; an additional sequence encoding a signal sequence; a sequence encoding an additional milk protein; and an additional yeast termination sequence, where the additional promoter sequence is operably linked to the additional sequence encoding a signal sequence, the sequence encoding the signal sequence is operably linked to the sequence encoding the additional milk protein, and the sequence encoding the additional milk protein is operably linked to the additional yeast terminal sequence.

Also provided are host cells that include any of the nucleic acids described herein. In some embodiments of these host cells, the host cell is a yeast strain (e.g., a *Kluyveromyces* sp., *Pichia* sp., *Saccharomyces* sp., *Tetrahymena* sp., *Yarrowia* sp., *Hansenula* sp., *Blastobotrys* sp., *Candida* sp., *Zygosaccharomyces* sp., or *Debaryomyces* sp.).

Also provided herein are methods of producing a recombinant milk protein that is unglycosylated or has a non-mammalian glycosylation pattern, the method including: culturing any of the host cells described herein in a culture medium under conditions sufficient to allow for secretion of the milk protein that is unglycosylated or has a non-mammalian glycosylation pattern; and harvesting the milk protein that is unglycosylated or has a non-mammalian glycosylation pattern from the culture medium.

Also provided are methods of producing a micelle including a β -casein that is unglycosylated or has a non-mammalian glycosylation pattern and a κ -casein that is unglycosylated or has a non-mammalian glycosylation pattern, that include: culturing any of the host cells provided herein in a culture medium under conditions sufficient to allow

for release of the micelle from the host cell, where the host cell includes nucleic acid including a sequence that encodes a β -casein and a sequence that encodes a κ -casein.

Also provided are methods of supplementing a mammal-produced milk that include: providing a mammalian-produced milk or a processed mammalian-produced milk; and mixing into the milk at least one of: a β -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern; a κ -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern; and a micelle including a β -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern, and a κ -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern.

Also provided are methods of producing a composition that include: sonicating a liquid including a protein mixture comprising β -casein protein and casein κ protein, or comprising micelles comprising β -casein protein and κ -casein protein; mixing ash into the liquid; adding to the liquid a mixture of one or more lipids, one or more flavor compounds, and one or more color balancing agents, and sonicating the liquid; and adding to the liquid one or more sweetening agents, thereby producing the composition. In some embodiments of these methods, the β -casein protein is unglycosylated or has a non-mammalian glycosylation pattern, and/or the κ -casein protein is unglycosylated or has a non-mammalian glycosylation pattern. In some embodiments of these methods, the ash includes one or more of: calcium, phosphorus, potassium, sodium, citrate, and chloride. In some embodiments of these methods, the ash added includes one or more (e.g., one, two, or three) of CaCl_2 , KH_2PO_4 , and Na_3 citrate. In some embodiments of these methods, the one or more lipids comprises at least one of: sunflower oil, coconut oil, tributyrin, mono- and di-glycerides, free fatty acids, and phospholipids. In some embodiments of these methods, the free fatty acids comprise at least one fatty acid selected from the group of: butyric acid, caproic acid, caprylic acid, and capric acid. In some embodiments of these methods, the phospholipids are soy lecithin phospholipids, sunflower lecithin phospholipids, cotton lecithin phospholipids, or rapeseed lecithin phospholipids. In some embodiments of these methods, the monoglycerides and diglycerides are plant-derived monoglycerides and diglycerides, or are bacteria-derived monoglycerides and diglycerides. In some embodiments of these methods, the flavor compounds include at least one flavor compound selected from the group consisting of:

5 δ -decalactone, ethyl butyrate, 2-furyl methyl ketone, 2,3-pentanedione, γ -undecalactone, and δ -undecalactone. In some embodiments of these methods, the one or more coloring balancing agent is β -carotene or annatto. In some embodiments of these methods, the one or more sweetening agents is a saccharide. In some embodiments of these methods, the
10 saccharide is selected from the group consisting of: glucose, mannose, maltose, fructose, galactose, lactose, sucrose, monatin, and tagatose. In some embodiments of these methods, the one or more sweetening agents is an artificial sweetener. In some embodiments of these methods, the artificial sweetener is selected from the group consisting of: stevia, aspartame, cyclamate, saccharin, sucralose, mogrosides, brazzein, curculin, erythritol, glycyrrhizin, inulin, isomalt, ~~lactitol~~lactitol, mabinlin, ~~maltitol~~maltitol, mannitol, miraculin, monatin, monelin, osladin, pentadin, sorbitol, thaumatin, xylitol, acesulfame potassium, advantame, alitame, aspartame-acesulfame, sodium cyclamate, dulcin, glucin, neohesperidin dihydrochalcone, neotame, and P-4000. In some embodiments of these methods, the pH of the liquid is between about 6.2 and
15 about 7.4 (e.g., about 6.4 to about 6.8). In some embodiments of these methods, the β -casein protein is a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth β -casein
20 protein; and/or the κ -casein protein is a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth κ -casein protein. In some embodiments of these methods, the protein mixture
25 further includes one or more proteins selected from the group of: α -lactalbumin, β -lactoglobulin, α -S1-casein, α -S2-casein, lactoferrin, transferrin, and serum albumin.

Also provided is a composition produced by any of the methods described herein.

Also provided is a method of making butter, cheese, caseinate, or yogurt that
include: providing any of the compositions described herein; and producing the butter,
30 cheese, caseinate, or yogurt using any of the compositions described herein as a starting material.

Also provided are kits that include: (a) a mixture of one or more milk proteins, one or more fats, and one or flavor compounds; and (b) a mixture of ash and at least one sweetening agent. In some embodiments of these kits, the one or more milk proteins are selected from the group of: β -casein, κ -casein, α -lactalbumin, β -lactoglobulin, α -S1-casein, α -S2-casein, lactoferrin, transferrin, and serum albumin. In some embodiments of these kits, the one or more milk proteins are cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth milk proteins. In some embodiments of these kits, the one or more fats are selected from the group consisting of: sunflower oil, coconut oil, tributyrin, mono- and di-glycerides, free fatty acids, and phospholipids. In some embodiments of these kits, the free fatty acids include at least one fatty acid selected from the group of: butyric acid, caproic acid, caprylic acid, and capric acid. In some embodiments of these kits, the phospholipids are soy lecithin phospholipids, sunflower lecithin phospholipids, cotton lecithin phospholipids, or rapeseed lecithin phospholipids. In some embodiments of these kits, the monoglycerides and diglycerides are plant-derived monoglycerides and diglycerides, or are bacteria-derived monoglycerides and diglycerides. In some embodiments of these kits, the flavor compounds comprise at least one flavor compound selected from the group consisting of: δ -decalactone, ethyl butyrate, 2-furyl methyl ketone, 2,3-pentanedione, γ -undecalactone, and δ -undecalactone. In some embodiments of these kits, the mixture in (a) further includes one or more color balancing agent. In some embodiments of these kits, the one or more color balancing agent is β -carotene or annatto. In some embodiments of these kits, the one or more sweetening agents is a saccharide (e.g., a saccharide selected from the group of: glucose, mannose, maltose, fructose, galactose, lactose, sucrose, monatin, and tagatose). In some embodiments of these kits, the one or more sweetening agents is an artificial sweetener (e.g., an artificial sweetener selected from the group of: stevia, aspartame, cyclamate, saccharin, sucralose, mogrosides, brazzein, curculin, erythritol, glycyrrhizin, inulin, isomalt, ~~lactitol~~lactitol, mabinlin, ~~malititol~~maltitol, mannitol, miraculin, monatin, monelin, osladin, pentadin, sorbitol, thaumatin, xylitol, acesulfame potassium, advantame, alitame, aspartame-

acesulfame, sodium cyclamate, dulcin, glucin, neohesperidin dihydrochalcone, neotame, and P-4000). In some embodiments of any of these kits, the ash includes one or more of: calcium, phosphorus, potassium, sodium, citrate, and chloride. In some embodiments of these kits,

5 the ash includes one or more (e.g., one, two, or three) of CaCl_2 , KH_2PO_4 , and Na_3 citrate. Some embodiments of these kits further include instructions for making any of the compositions described herein.

Also provided are kits that include at least one of the nucleic acids described herein.

10 Also provided herein are dairy substitute food products including one or more isolated milk protein components, fats, carbohydrates, and ash. In some embodiments of these dairy substitute food products, the food product is non-animal derived. In some embodiments of these substitute food product, the food product includes milk, butter, cheese, casein, yogurt, and cream. In some embodiments of these dairy substitute
15 food products, the isolated milk protein components include casein and whey proteins. In some embodiments of these dairy substitute food products, the casein protein further includes alpha-s1, alpha-s2, beta, and kappa-casein. In some embodiments of these dairy substitute food products, the casein protein further includes alpha-s1, beta, and kappa. In some embodiments of these dairy substitute food products, the casein protein further
20 includes components for micelle formation. In some embodiments of these dairy substitute food products, the casein protein exhibits curdling properties at pH 4.0 – 6.0. In some embodiments of these dairy substitute food products, the casein protein is at least or equal to 2.5% (w/v) and less than or equal to 10% (w/v). In some embodiments of these dairy substitute food products, the whey protein further includes beta-lactoglobulin and alpha-lactalbumin. In some embodiments of these dairy substitute food products, the whey protein forms a polymer matrix gel. In some embodiments of these dairy substitute
25 food products, the whey protein is at least 0.1 % (w/v) and less than or equal to 1% (w/v). In some embodiments of these dairy substitute food products, the one or more milk protein components is isolated from microbes. In some embodiments of any of these
30 dairy substitute food products, the one or more milk protein components is isolated from recombinant microbes. In some embodiments of these dairy substitute food products,

the one or more milk protein components is synthesized in eukaryotic microbes. In some embodiments of these dairy substitute food products, the eukaryotic microbes include yeast. In some embodiments of these dairy substitute food products, the yeast include *Kleuyveromyces* sp., *Pichia* sp., *Saccharomyces* sp. and *Tetrahymena* sp.

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In some embodiments of these substitute food products, the fats include triglycerides. In some embodiments of these dairy substitute food products, the fats comprise high-oleic oil. In some embodiments of these dairy substitute food products, the high-oleic oil further includes one or more of monounsaturates, oleic, linoleic, linolenic and saturates.

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In some embodiments of these dairy substitute food products, the fats comprise short chain fatty acids. In some embodiments of these dairy substitute food products, the short chain fatty acids include butanoic, hexanoic, octanoic, and decanoic acids. In some embodiments of these dairy substitute food products, one or more of the fats comprised trans-esterified fatty acids. In some embodiments of these dairy substitute food products,

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one or more of the fats are isolated from plants. In some embodiments of these dairy substitute food products, the plant is selected from one or more of the following:

sunflower, corn, olive, soy, peanut, walnut, almond, sesame, cottonseed, canola, safflower, flax seed, palm, palm kernel, palm fruit, coconut, babassu, shea butter, mango butter, cocoa butter, wheat germ and rice bran oil. In some embodiments of these dairy

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substitute food products, the sugars comprise of galactose, sucrose, glucose, fructose and maltose. In some embodiments of these dairy substitute food products, the dairy

substitute food product is essentially free of lactose. In some embodiments of these dairy substitute food products, the ash includes minerals. In some embodiments of these dairy

substitute food products, the minerals further include one or more of the following:

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sodium, potassium, calcium, magnesium, phosphorus, iron, copper, zinc, chloride, manganese, selenium, iodine, retinol, carotene, vitamins, vitamin D, vitamin E, vitamin B12, thiamin and riboflavin. In some embodiments of these dairy substitute food

products, the ash includes anions. In some embodiments of these dairy substitute food products, the minerals further include one or more of the following: phosphate, citrate,

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sulfate, carbonate, and chloride.

Also provided are methods of making a dairy substitute food product including the step of contacting one or more isolated milk protein components, interesterified fats, carbohydrates and ash. Some embodiments of these methods, further include the step of isolating one or more milk protein components is from a lower eukaryote.

5 Also provided are methods of altering a flavor profile of a dairy substitute product that include modulating a combination of fatty acids in a mixture including milk protein components, carbohydrates, and ash. In some embodiments of these methods, the step of modulating includes triglyceride comprising three oleic acids and short-chain triglyceride comprising butyric, one hexanoic, and one octanoic acid. In some embodiments of these
10 methods, the step of modulating comprises increasing or decreasing one or more fatty acids comprising butyric acid, caprioc acid, caprylic acid, and capric acid. In some embodiments of these methods, the flavor profile of a dairy substitute product mimics the flavor profile of one or more dairy product. In some embodiments of these methods, the flavor profile of one or more dairy food product includes bovine milk, goat milk, soy
15 milk, almond milk and coconut milk. In some embodiments of these methods, the flavor profile includes one or more sensory impressions selected from: buttery, nutty, sweet, sour, fruity, floral, bitter, woody, earthy, beany, spicy, metallic, sweet, musty, oily and vinegary.

Disclosed herein are methods and compositions to produce dairy substitutes. In
20 some embodiments, methods and compositions are provided for a dairy substitute food product comprising one or more isolated milk protein components, fats, carbohydrates and ash. In certain embodiments, methods and compositions are provided for dairy substitute composition comprising casein protein and whey protein wherein the composition is essentially free of animal products and wherein the casein protein to whey
25 protein are in a preferred (w/v) ratio. In certain other embodiments, methods are provided to modulate a flavor profile of a dairy substitute food product comprising modulating a fatty acid content in a mixture comprising milk protein components, fats, carbohydrates, and ash. Preferred steps of modulating comprises increasing or decreasing one or more fatty acids comprising butyric acid, caproic acid, caprylic acid, and capric
30 acid. In additional embodiments, methods and compositions of the present invention provide milk protein components and fats in a desired (w/v) ratio.

In various aspects, the methods and compositions of the present invention provide for dairy substitutes that still retain their functional characteristics and organoleptic properties. In some embodiments, the core functionalities can be, but are not limited to achieving a nutritional profile similar to a conventional dairy product, and replicates one or more, if not all, of the core functionalities thereof.

In other embodiments, the core functionalities can be, but are not limited to replicating sensory characteristics that are identical or similar to the traditional dairy-based products, which include but are not limited to taste, appearance, handling and mouthfeel, desired density, structure, texture, elasticity, springiness, coagulation, binding, leavening, aeration, foaming, creaminess, and emulsification.

Preferred methods and compositions provide dairy substitute products such as milk, butter, cheese, yogurt, and cream. Provided herein are formulations for a non-dairy milk substitute comprising (3.3%) one or more isolated milk protein components, (4.0%) fats, (2.4%) carbohydrates and (0.7%) ash (w/v). Varying the fat content through modulating triglyceride levels and the fatty acid composition of the triglycerides enhances the flavor profile of the non-dairy milk substitute.

Advantages in the methods and dairy substitute compositions include reduction or removal of antibiotic residues, heavy metals, bacteria and adulterations commonly found in natural dairy products as well as reducing environmental impact.

Accordingly, certain aspects of the present invention provide animal-free dairy substitute that has desirable flavor characteristics, e.g., replicates dairy flavors, minimizes foodborne pathogens and has a lower environmental impact, while retaining the downstream applications of dairy milk.

A definition of a specific embodiment of the invention as claimed herein follows.

According to an embodiment of the invention, there is provided a food composition, other than a cottage cheese or hard cheese, comprising:

(i) a recombinant β -lactoglobulin protein and a recombinant α -lactalbumin protein, wherein ~~one or~~ both of the recombinant β -lactoglobulin protein and the recombinant α -lactalbumin protein comprises a sequence that is at least 90% identical to the bovine protein amino acid sequence and has been produced by a fungal cell;

(ii) one or more sweetening agents;

- (iii) ash; and
- (iv) optionally, one or more lipids,

wherein:

5 the food composition has one or more characteristics of a dairy food product selected from the group consisting of: taste, aroma, appearance, handling, mouthfeel, density, structure, texture, elasticity, springiness, coagulation, binding, ~~leavening~~, aeration, foaming, creaminess, and emulsification; and

the food composition does not comprise any other milk proteins than those in (i).

10 The term "comprise" and variants of the term such as "comprises" or "comprising" are used herein to denote the inclusion of a stated integer or stated integers but not to exclude any other integer or any other integers, unless in the context or usage an exclusive interpretation of the term is required.

15 Unless otherwise defined herein, scientific and technical terms used in connection with the present invention shall have the meanings that are commonly understood by those of ordinary skill in the art. Further, unless otherwise required by context, singular terms shall include the plural and plural terms shall include the singular. Generally, nomenclatures used in connection with, and techniques of, dairy processing, biochemistry, enzymology, molecular and cellular biology, microbiology, genetics and protein and nucleic acid chemistry and hybridization described herein are those well-
20 known and commonly used in the art.

Methods and materials are described herein for use in the present invention; other, suitable methods and materials known in the art can also be used. The materials, methods, and examples are illustrative only and not intended to be limiting.

All publications, patents, patent applications, sequences, database entries, and other references mentioned herein are incorporated by reference to the same extent as if each individual publication, patent, patent application, sequence, database entry, or other reference was specifically and individually indicated to be incorporated by reference. In case of conflict, the present specification, including definitions, will control.

Other features and advantages of the invention will be apparent from the following detailed description and figures, and from the claims.

The terminology and description used herein is for the purpose of describing particular embodiments only and is not intended to limit the invention. As used herein, the singular forms “a,” “an,” and “the” can be intended to include the plural forms as well, unless the context clearly indicates otherwise. The terms “including,” “includes,” “having,” “has,” “with,” or variants thereof are intended to be inclusive in a manner similar to the term “comprising”.

An “isolated” RNA, DNA or a mixed polymer is one which is substantially separated from other cellular components that naturally accompany the native polynucleotide in its natural host cell, e.g., ribosomes, polymerases, and genomic sequences with which it is naturally associated.

As used herein, an “isolated” organic molecule (e.g., a fatty acid or a SCFA) is one which is substantially separated from the cellular components (membrane lipids, chromosomes, proteins) of the host cell from which it originated. As used herein, the term “isolated” with respect to protein indicates that the preparation of protein is at least 60% pure, e.g., greater than 65%, 70%, 75%, 80%, 85%, 90%, 95%, or 99% pure. The term does not require that the biomolecule has been separated from all other chemicals, although certain isolated biomolecules may be purified to near homogeneity.

The term “polynucleotide” or “nucleic acid molecule” refers to a polymeric form of nucleotides of at least 10 bases in length. The term includes DNA molecules (e.g., cDNA or genomic or synthetic DNA) and RNA molecules (e.g., mRNA or synthetic RNA), as well as analogs of DNA or RNA containing non-natural nucleotide analogs,

non-native internucleoside bonds, or both. The nucleic acid can be in any topological conformation. For instance, the nucleic acid can be single-stranded, or double-stranded, or circular.

5 The term “SCFA” is abbreviated for short-chain fatty acids, the term “HOSO” is abbreviated for high oleic sunflower oil, “SCTG” is abbreviated for short-chain triglycerides.

10 The term “milk protein component” refers to proteins or protein equivalents and variants found in milk such as casein, whey or the combination of casein and whey, including their subunits, which are derived from various sources and as further defined herein.

15 The term “milk protein” means a protein that is found in a mammal-produced milk or a protein having a sequence that is at least 80% identical (e.g., at least 85%, at least 90%, at least 95%, at least 96%, at least 97%, at least 98%, or at least 99% identical) to the sequence of a protein that is found in a mammal-produced milk. Non-limiting examples of milk proteins include: β -casein, κ -casein, α -S1-casein, α -S2-casein, α -lactalbumin, β -lactoglobulin, lactoferrin, transferrin, and serum albumin. Additional milk proteins are known in the art.

20 The term “casein protein” is art-known and represents a family of proteins that is present in mammal-produced milk and is capable of self-assembling with other proteins in the family to form micelles and/or precipitate out of an aqueous solution at an acidic pH. Non-limiting examples of casein proteins include: β -casein, κ -casein, α -S1-casein, and α -S2-casein. Non-limiting examples of sequences for casein protein from different mammals are provided herein. Additional sequences for other mammalian caseins are known in the art.

25 The term “mammal-produced milk” is art known and means a milk produced by a mammal.

The term “processed mammal-produced milk” means a mammal-produced milk that is processed using one or more steps known in the dairy industry (e.g., homogenization, pasteurization, irradiation, or supplementation).

The term “mammal-derived component” means a molecule or compound (e.g., a protein, a lipid, or a nucleic acid) obtained from the body of a mammal or a molecule obtained from a fluid or solid produced by a mammal.

5 The term “component of milk” or “milk component” is a molecule, compound, element, or an ion present in a mammal-produced milk.

10 The term “non-mammalian glycosylation pattern” means one of a difference in one or more location(s) of glycosylation in a protein, and/or a difference in the amount of and/or type of glycosylation at one or more location(s) in a protein produced and post-translational modified in a non-mammalian cell (e.g., a yeast cell, an insect cell, or a bacterial cell) as compared to a reference protein (e.g., the same protein produced and post-translationally modified in a mammalian cell, e.g., a CHO cell, a MEK cell, or a mammalian udder cell).

15 The term “lipids” means one or more molecules (e.g., biomolecules) that include a fatty acyl group (e.g., saturated or unsaturated acyl chains). For example, the term lipids includes oils, phospholipids, free fatty acids, phospholipids, monoglycerides, diglycerides, and triglycerides. Non-limiting examples of lipids are described herein. Additional examples of lipids are known in the art.

20 The term “plant-derived lipid” means a lipid obtained from and/or produced by a plant (e.g., monocot or dicot).

25 The term “sweetening agent” means a saccharide (e.g., a monosaccharide, a disaccharide, or a polysaccharide) or an artificial sweetener (e.g., a small molecule artificial sweetener or a protein artificial sweetener) that, when added to a composition, makes the composition taste sweet when ingested by a mammal, such as a human. Non-limiting examples of sweetening agents are described herein. Additional examples of sweetening agents are known in the art.

30 The term “ash” is an art-known term and represents one or more ions, elements, minerals, and/or compounds that can be found in a mammal-produced milk. Non-limiting ions, elements, minerals, and compounds that are found in a mammal-produced milk are described herein. Additional ions, elements, minerals, and compounds that are found in a mammal-produced milk are also known in the art.

The term “color balancing agent” or “coloring agent” means an agent added to a composition to modulate the color of the composition, e.g., to make the color of the composition appear more similar to a mammalian-produced milk. Non-limiting examples of color balancing agents or coloring agents include β -carotene and annatto. Other examples of coloring balancing agents are known in the art. A color balancing agent or a coloring agent can be produced by or obtained from a plant.

The term “micelle” means is a generally (or roughly) spherical supramolecular structure that exists as a dispersion within a composition. A micelle can have, e.g., a surface that is composed of a charged outer layer. A micelle can encapsulate one or more biomolecules. For example, a micelle can encapsulate two or more proteins (e.g., a β -casein protein and a κ -casein protein). A micelle can have diameter of between about 10 nm and about 350 nm. Additional aspects and characteristics of micelles are known in the art.

The phrase “concentration of a component in a mammal-produced milk” means the concentration of a component in the milk produced by a mammal or the mean concentration of a component in milk produced by a population of mammals of the same species.

The term “attenuate” as used herein generally refers to a functional deletion, including a mutation, partial or complete deletion, insertion, or other variation made to a gene sequence or a sequence controlling the transcription of a gene sequence, which reduces or inhibits production of the gene product, or renders the gene product non-functional. In some instances a functional deletion is described as a knockout mutation. Attenuation also includes amino acid sequence changes by altering the nucleic acid sequence, placing the gene under the control of a less active promoter, down-regulation, expressing interfering RNA, ribozymes or antisense sequences that target the gene of interest, or through any other technique known in the art. In one example, the sensitivity of a particular enzyme to feedback inhibition or inhibition caused by a composition that is not a product or a reactant (non-pathway specific feedback) is lessened such that the enzyme activity is not impacted by the presence of a compound. In other instances, an enzyme that has been altered to be less active can be referred to as attenuated.

Deletion: The removal of one or more nucleotides from a nucleic acid molecule or one or more amino acids from a protein, the regions on either side being joined together.

Knock-Out: A gene whose level of expression or activity has been reduced to zero. In some examples, a gene is knocked-out via deletion of some or all of its coding sequence. In other examples, a gene is knocked-out via introduction of one or more nucleotides into its open reading frame, which results in translation of a non-sense or otherwise non-functional protein product.

The term “synthetic milk substitute” refers to a composition that resembles, is similar to, is equivalent to, or is nearly identical to a dairy milk.

The term “flavor” refers to the taste and/or the aroma of a food or drink.

The term “recombinant” is an art known-term. When referring to a nucleic acid (e.g., a gene), the term “recombinant” can be used, e.g., to describe a nucleic acid that has been removed from its naturally occurring environment, a nucleic acid that is not associated with all or a portion of a nucleic acid abutting or proximal to the nucleic acid when it is found in nature, a nucleic acid that is operatively linked to a nucleic acid which it is not linked to in nature, or a nucleic acid that does not occur in nature. The term “recombinant” can be used, e.g., to describe cloned DNA isolates, or a nucleic acid including a chemically-synthesized nucleotide analog. When “recombinant” is used to describe a protein, it can refer to, e.g., a protein that is produced in a cell of a different species or type, as compared to the species or type of cell that produces the protein in nature.

As used herein, an endogenous nucleic acid sequence in the genome of an organism (or the encoded protein product of that sequence) is deemed “recombinant” herein if a heterologous sequence is placed adjacent to the endogenous nucleic acid sequence, such that the expression of this endogenous nucleic acid sequence is altered. In this context, a heterologous sequence is a sequence that is not naturally adjacent to the endogenous nucleic acid sequence, whether or not the heterologous sequence is itself endogenous (originating from the same host cell or progeny thereof) or exogenous (originating from a different host cell or progeny thereof). By way of example, a promoter sequence can be substituted (e.g., by homologous recombination) for the native promoter of a gene in the genome of a host cell, such that this gene has an altered

expression pattern. This gene would now become “recombinant” because it is separated from at least some of the sequences that naturally flank it.

5 A nucleic acid is also considered “recombinant” if it contains any modifications that do not naturally occur to the corresponding nucleic acid in a genome. For instance, an endogenous coding sequence is considered “recombinant” if it contains an insertion, deletion, or a point mutation introduced artificially, e.g., by human intervention. A “recombinant nucleic acid” also includes a nucleic acid integrated into a host cell chromosome at a heterologous site and a nucleic acid construct present as an episome.

10 The term “percent sequence identity” or “identical” in the context of nucleic acid sequences refers to the residues in the two sequences which are the same when aligned for maximum correspondence. The length of sequence identity comparison may be over a stretch of at least about nine nucleotides, usually at least about 20 nucleotides, more usually at least about 24 nucleotides, typically at least about 28 nucleotides, more typically at least about 32 nucleotides, and preferably at least about 36 or more
15 nucleotides. There are a number of different algorithms known in the art which can be used to measure nucleotide sequence identity. For instance, polynucleotide sequences can be compared using FASTA, Gap, or Bestfit, which are programs in Wisconsin Package Version 10.0, Genetics Computer Group (GCG), Madison, Wis. FASTA provides alignments and percent sequence identity of the regions of the best overlap between the
20 query and search sequences. See, e.g., Pearson, *Methods Enzymol.* 183:63-98, 1990 (hereby incorporated by reference in its entirety). For instance, percent sequence identity between nucleic acid sequences can be determined using FASTA with its default parameters (a word size of 6 and the NOPAM factor for the scoring matrix) or using Gap with its default parameters as provided in GCG Version 6.1, herein incorporated by
25 reference. Alternatively, sequences can be compared using the computer program, BLAST (Altschul et al., *J. Mol. Biol.* 215:403-410, 1990; Gish and States, *Nature Genet.* 3:266-272, 1993; Madden et al., *Meth. Enzymol.* 266:131-141, 1996; Altschul et al., *Nucleic Acids Res.* 25:3389-3402, 1997; Zhang and Madden, *Genome Res.* 7:649-656, 1997, especially blastp or tblastn (Altschul et al., *Nucleic Acids Res.* 25:3389-3402, 1997.

30 The term “substantial homology” or “substantial similarity,” when referring to a nucleic acid or fragment thereof, indicates that, when optimally aligned with appropriate

nucleotide insertions or deletions with another nucleic acid (or its complementary strand), there is nucleotide sequence identity in at least about 76%, 80%, 85%, preferably at least about 90%, and more preferably at least about 95%, 96%, 97%, 98% or 99% of the nucleotide bases, as measured by any well-known algorithm of sequence identity, such as FASTA, BLAST or Gap, as discussed above.

Alternatively, substantial homology or similarity exists when a nucleic acid or fragment thereof hybridizes to another nucleic acid, to a strand of another nucleic acid, or to the complementary strand thereof, under stringent hybridization conditions. “Stringent hybridization conditions” and “stringent wash conditions” in the context of nucleic acid hybridization experiments depend upon a number of different physical parameters. Nucleic acid hybridization will be affected by such conditions as salt concentration, temperature, solvents, the base composition of the hybridizing species, length of the complementary regions, and the number of nucleotide base mismatches between the hybridizing nucleic acids, as will be readily appreciated by those skilled in the art. One having ordinary skill in the art knows how to vary these parameters to achieve a particular stringency of hybridization.

In general, “stringent hybridization” is performed at about 25 °C below the thermal melting point (T_m) for the specific DNA hybrid under a particular set of conditions. “Stringent washing” is performed at temperatures about 5 °C lower than the T_m for the specific DNA hybrid under a particular set of conditions. The T_m is the temperature at which 50% of the target sequence hybridizes to a perfectly matched probe. See Sambrook et al., *Molecular Cloning: A Laboratory Manual*, 2d ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., page 9.51, 1989, hereby incorporated by reference. For purposes herein, “stringent conditions” are defined for solution phase hybridization as aqueous hybridization (i.e., free of formamide) in 6xSSC (where 20xSSC contains 3.0 M NaCl and 0.3 M sodium citrate), 1% SDS at 65 °C for 8-12 hours, followed by two washes in 0.2xSSC, 0.1% SDS at 65 °C. for 20 minutes. It will be appreciated by the skilled worker that hybridization at 65 °C will occur at different rates depending on a number of factors including the length and percent identity of the sequences which are hybridizing.

The nucleic acids (also referred to as polynucleotides) of this present invention may include both sense and antisense strands of RNA, cDNA, genomic DNA, and synthetic forms and mixed polymers of the above. They may be modified chemically or biochemically or may contain non-natural or derivatized nucleotide bases, as will be readily appreciated by those of skill in the art. Such modifications include, for example, labels, methylation, substitution of one or more of the naturally occurring nucleotides with an analog, internucleotide modifications such as uncharged linkages (e.g., methyl phosphonates, phosphotriesters, phosphoramidates, carbamates, etc.), charged linkages (e.g., phosphorothioates, phosphorodithioates, etc.), pendent moieties (e.g., polypeptides), intercalators (e.g., acridine, psoralen, etc.), chelators, alkylators, and modified linkages (e.g., alpha anomeric nucleic acids, etc.) Examples of modified nucleotides are described in Malyshev et al., *Nature* 509:385-388, 2014; and Li et al., *J. Am. Chem. Soc.* 136:826-829, 2014. Also included are synthetic molecules that mimic polynucleotides in their ability to bind to a designated sequence via hydrogen bonding and other chemical interactions. Such molecules are known in the art and include, for example, those in which peptide linkages substitute for phosphate linkages in the backbone of the molecule. Other modifications can include, for example, analogs in which the ribose ring contains a bridging moiety or other structure such as the modifications found in "locked" nucleic acids.

The term "mutated" when applied to nucleic acid sequences means that nucleotides in a nucleic acid sequence may be inserted, deleted, or changed compared to a reference nucleic acid sequence. A single alteration may be made at a locus (a point mutation) or multiple nucleotides may be inserted, deleted, or changed at a single locus. In addition, one or more alterations may be made at any number of loci within a nucleic acid sequence. A nucleic acid sequence may be mutated by any method known in the art including but not limited to mutagenesis techniques such as "error-prone PCR" (a process for performing PCR under conditions where the copying fidelity of the DNA polymerase is low, such that a high rate of point mutations is obtained along the entire length of the PCR product; see, e.g., Leung et al., *Technique* 1:11-15, 1989, and Caldwell and Joyce, *PCR Methods Applic.* 2:28-33, 1992); and "oligonucleotide-directed mutagenesis" (a

process which enables the generation of site-specific mutations in any cloned DNA segment of interest; see, e.g., Reidhaar-Olson and Sauer, *Science* 241:53-57, 1988).

The term “vector” as used herein is intended to refer to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a “plasmid,” which generally refers to a circular double stranded DNA loop into which additional DNA segments may be ligated, but also includes linear double-stranded molecules such as those resulting from amplification by the polymerase chain reaction (PCR) or from treatment of a circular plasmid with a restriction enzyme. Other vectors include cosmids, bacterial artificial chromosomes (BAC) and yeast artificial chromosomes (YAC). Another type of vector is a viral vector, wherein additional DNA segments may be ligated into the viral genome (discussed in more detail below). Certain vectors are capable of autonomous replication in a host cell into which they are introduced (e.g., vectors having an origin of replication which functions in the host cell). Other vectors can be integrated into the genome of a host cell upon introduction into the host cell, and are thereby replicated along with the host genome. Moreover, certain preferred vectors are capable of directing the expression of genes to which they are operatively linked. Such vectors are referred to herein as “recombinant expression vectors” (or simply “expression vectors”).

Promoters useful for expressing the recombinant genes described herein include both constitutive and inducible/repressible promoters. Examples of inducible/repressible promoters include galactose-inducible promoters (e.g., PLAC4-PBI). Where multiple recombinant genes are expressed in an engineered yeast, the different genes can be controlled by different promoters or by identical promoters in separate operons, or the expression of two or more genes may be controlled by a single promoter as part of an operon.

The term “operably linked” expression control sequences refers to a linkage in which the expression control sequence is contiguous with the gene of interest to control the gene of interest, as well as expression control sequences that act in trans or at a distance to control the gene of interest.

The term “expression control sequence” or “regulatory sequences” are used interchangeably and as used herein refer to polynucleotide sequences which are necessary

to affect the expression of coding sequences to which they are operably linked. Expression control sequences are sequences which control the transcription, post-transcriptional events, and translation of nucleic acid sequences. Expression control sequences include appropriate transcription initiation, termination, promoter and enhancer sequences; efficient RNA processing signals, such as splicing and polyadenylation signals; sequences that stabilize cytoplasmic mRNA; sequences that enhance translation efficiency (e.g., ribosome binding sites); sequences that enhance protein stability; and when desired, sequences that enhance protein secretion. The nature of such control sequences differs depending upon the host organism; in prokaryotes, such control sequences generally include promoter, ribosomal binding site, and transcription termination sequence. The term “control sequences” is intended to include, at a minimum, all components whose presence is essential for expression, and can also include additional components whose presence is advantageous, for example, leader sequences and fusion partner sequences.

The term “transfect”, “transfection”, “transfecting,” and the like refer to the introduction of a heterologous nucleic acid into eukaryote cells, both higher and lower eukaryote cells. Historically, the term “transformation” has been used to describe the introduction of a nucleic acid into a yeast or fungal cell; however, herein the term “transfection” is used to refer to the introduction of a nucleic acid into any eukaryote cell, including yeast and fungal cells.

The term “recombinant host cell” (“expression host cell”, “expression host system”, “expression system” or simply “host cell”), as used herein, is intended to refer to a cell into which a recombinant vector has been introduced. It should be understood that such terms are intended to refer not only to the particular subject cell but to the progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term “host cell” as used herein. A recombinant host cell may be an isolated cell or cell line grown in culture or may be a cell which resides in a living tissue or organism. Preferred host cells are yeasts and fungi.

The term “yeast and filamentous fungi” include, but are not limited to any *Kluyveromyces* sp., such as *Kluyveromyces lactis*, *Kluyveromyces marxianus*, *Saccharomyces* sp., such as *Saccharomyces cerevisiae*, *Pichia* sp., such as *Pichia pastoris*, *Pichia finlandica*, *Pichia trehalophila*, *Pichia koclamae*, *Pichia*
5 *membranaefaciens*, *Pichia minuta* (*Ogataea minuta*, *Pichia lindneri*), *Pichia opuntiae*, *Pichia thermotolerans*, *Pichia salictaria*, *Pichia guercuum*, *Pichia pijperi*, *Pichia stiptis*, *Pichia methanolica*, *Hansenula polymorpha*, *Candida albicans*, any *Aspergillus* sp., such as *Aspergillus nidulans*, *Aspergillus niger*, *Aspergillus oryzae*, *Trichoderma reesei*, *Chrysosporium lucknowense*, *Fusarium* sp., *Fusarium gramineum*, *Fusarium venenatum*,
10 *Physcomitrella patens*, and *Neurospora crassa*.

As used herein, the term “predominantly” or variations thereof will be understood to mean, for instance, a) in the context of fats the amount of a particular fatty acid composition relative to the total amount of fatty acid composition; b) in the context of protein the amount of a particular protein composition (e.g., β -casein) relative to the total
15 amount of protein composition (e.g., α -, β -, and κ -casein).

The term “about,” “approximately,” or “similar to” means within an acceptable error range for the particular value as determined by one of ordinary skill in the art, which can depend in part on how the value is measured or determined, or on the limitations of the measurement system. It should be understood that all ranges and quantities described
20 below are approximations and are not intended to limit the invention. Where ranges and numbers are used these can be approximate to include statistical ranges or measurement errors or variation. In some embodiments, for instance, measurements could be plus or minus 10%.

The phrase “essentially free of” is used to indicate the indicated component, if
25 present, is present in an amount that does not contribute, or contributes only in a *de minimus* fashion, to the properties of the composition. In various embodiments, where a composition is essentially free of a particular component, the component is present in less than a functional amount. In various embodiments, the component may be present in trace amounts. Particular limits will vary depending on the nature of the component, but
30 may be, for example, selected from less than 10% by weight, less than 9% by weight, less than 8% by weight, less than 7% by weight, less than 6% by weight, less than 5% by

weight, less than 4% by weight, less than 3% by weight, less than 2% by weight, less than 1% by weight, or less than 0.5% by weight.

As used herein, the term “essentially free of” a particular carbohydrate, such as lactose is used to indicate that the food composition is substantially devoid of carbohydrate residues. Expressed in terms of purity, essentially free means that the amount of carbohydrate residues do not exceed 10%, and preferably is below 5%, more preferably below 1%, most preferably below 0.5%, wherein the percentages are by weight or by mole percent. Thus, substantially all of the carbohydrate residues in a food composition according to the present invention are free of, for example, lactose.

Unless indicated otherwise, percentage (%) of ingredients refer to total % by weight.

Unless otherwise indicated, and as an example for all sequences described herein under the general format “SEQ ID NO:”, “nucleic acid comprising SEQ ID NO:1” refers to a nucleic acid, at least a portion of which has either (i) the sequence of SEQ ID NO:1, or (ii) a sequence complementary to SEQ ID NO:1. The choice between the two is dictated by the context. For instance, if the nucleic acid is used as a probe, the choice between the two is dictated by the requirement that the probe be complementary to the desired target.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 represents a flow diagram representative of an exemplary process to produce synthetic milk substitute.

Figure 2A represents a picture depicting precipitate of an exemplary milk protein component.

Figure 2B represents a picture depicting a pellet of an exemplary milk protein component.

Figure 3 represents an image of a silver stain SDS-PAGE gel to visualize the milk protein components.

Figure 4 is a SYPRO Ruby-stained SDS-PAGE gel showing the levels of secretion of α -lactalbumin mediated by the OST signal sequence, the native α -

lactalbumin signal sequence, and the α mating factor signal sequence as described in Example 6.

Figure 5 is shows the levels of secretion of α -lactalbumin by wildtype yeast cells or yeast cells expressing α -lactalbumin using the native α -lactalbumin signal peptide or a OST1 signal peptide (as determined by an ELISA assay as described in Example 6).

Figure 6 is shows the levels of secretion of β -lactoglobulin by wildtype yeast cells and yeast cells including a vector as described in Example 6 (using SDS-PAGE).

Figure 7 is a Western blot showing the level of secretion of β -lactoglobulin from wildtype yeast and yeast cells including a vector as described in Example 6.

Figure 8 is a graph showing the level of secreted β -casein and secreted α -S1-casein produced by wildtype yeast and yeast cells including the vectors described in Example 6.

Figure 9 is a schematic showing the steps in the process described in Example 7.

Figure 10 is an image of a composition made by a method described herein.

DETAILED DESCRIPTION OF THE INVENTION

The invention is based on the discovery that only a few components present in a mammal-produced milk provide for the texture and taste of a mammal-produced milk, and the development of compositions that have a similar taste, aroma, and mouth feel as compared to compositions produced from mammal-produced milk. In view of this discovery, provided herein are such compositions, methods of making the compositions, and kits including these compositions and mixtures useful for making these compositions.

The compositions provided herein provide for compositions that have a similar taste, mouth feel, aroma, and nutritional value as compared to compositions produced from mammal-produced milk, but lack one or more of the components of a mammal-produced milk that may be considered to be undesirable (e.g., allergens, lactose, antibiotics, hormones (e.g., stress hormones and/or growth hormones), heavy metals, bacteria (e.g., *E. coli*), viruses, and prions). The compositions provided herein also have an improved shelf-life as compared to compositions produced from mammal-produced milk, and can have an improved aroma profile as compared to compositions produced from mammal-produced milk.

Also provided herein are methods and compositions for dairy substitute food product comprising one or more isolated milk protein components, fats, carbohydrates and ash. In certain aspects the methods and compositions comprise milk or milk-like protein equivalents. Preferably, the milk protein component is essentially free of
5 impurities. In some embodiments, the milk protein component comprises microbially derived or produced casein, whey or a combination thereof. More preferably, a method is provided to introduce an engineered nucleic acid sequence encoding one or more milk protein components. Even more preferably, the milk protein component is not animal derived. In other preferred embodiments, the recombinant milk protein component is
10 modified to express the same phosphate groups or lack phosphate groups and/or carbohydrate groups attached to the casein proteins. By having recombinant β -casein and κ -casein having the same phosphate groups as the same proteins present in a mammal-produced milk, the recombinant β -casein and the recombinant κ -casein are able to form micelles.

15 The methods and techniques of the present invention are generally performed according to conventional methods well known in the art and as described in various general and more specific references that are cited and discussed throughout the present specification unless otherwise indicated. See, e.g., Sambrook et al., *Molecular Cloning: A Laboratory Manual*, 2d ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor,
20 N.Y., 1989; Ausubel et al., *Current Protocols in Molecular Biology*, Greene Publishing Associates, 1992, and Supplements to 2002); Harlow and Lane, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1990; Taylor and Drickamer, *Introduction to Glycobiology*, Oxford Univ. Press, 2003; Worthington Enzyme Manual, Worthington Biochemical Corp., Freehold, N.J.;
25 *Handbook of Biochemistry: Section A Proteins, Vol I*, CRC Press, 1976; *Handbook of Biochemistry: Section A Proteins, Vol II*, CRC Press, 1976; *Essentials of Glycobiology*, Cold Spring Harbor Laboratory Press, 1999.

Exemplary materials and methods for use in any of the methods and compositions are described below, and can be used in any combination. Additional materials and
30 methods that can be used in any of the methods and compositions are also known in the art.

Casein Proteins

Casein proteins include a variety of different proteins found in mammalian milk. Non-limiting examples of casein proteins include: β -casein, κ -casein, α -S2-casein, and α -S1-casein.

5 As an alternative to obtaining casein proteins from mammals or mammal-produced milk for use in dairy product manufacture, the present invention provides methods and composition for the production of recombinant casein proteins. In various aspects of the present invention, methods and compositions are provided for non-animal derived casein that has similar solubility and similar turbidity, and heat stability suitable for incorporation into various food products. Preferably, the non-animal derived casein has excellent solubility similar turbidity and heat stability suitable for incorporation into various dairy substitute products. Additionally, further characterization of the protein includes less or no aggregation or precipitation during such heat treatment and is suitable for procedures such as pasteurization, concentration, etc.

15 Difference in function of the non-animal derived casein in milk can be characterized in terms of viscosity of the liquid; the ability of the proteins to withstand heat; the ability of the proteins to form micelles; and the ability of the proteins to hold different minerals & vitamins.

20 *B-casein*

The primary structure of human β -casein as determined by Greenberg et al. (*J. Biol. Chem.* 259:5132-5138, 1984) was shown to be a phosphorylated protein with phosphorylation sites at specific seryl and threonyl residues located near the amino terminus. A comparison of human and bovine β -caseins showed 47% identity.

25 Non-limiting examples of β -casein proteins are SEQ ID Nos: 25, 27, 29, 31, 33, 35, 36, 38, 40, 42, 44, and 46. Non-limiting examples of nucleic acid sequences encoding a β -casein protein are SEQ ID NOs: 26, 28, 30, 32, 34, 37, 39, 41, 43, 45, 47, and 144. A β -casein protein can be a β -casein protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan,

mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth β -casein protein.

Additional sequences for different β -casein proteins and nucleic acids encoding different β -casein proteins are known in the art.

5 A β -casein protein can also be a proteins that is at least 50% (e.g., at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype β -casein protein (e.g., SEQ ID Nos: 25, 27, 29, 31, 33, 35, 36, 38, 40, 42, 44, or 46). A nucleic acid encoding a β -casein protein can encode a protein that is at least 50% (e.g., at least 10 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype β -casein protein (e.g., SEQ ID Nos: 25, 27, 29, 31, 33, 35, 36, 38, 40, 42, 44, or 46).

15 Methods known for isolating β -casein from genetically engineered bacterial cells typically involve precipitating the β -casein from a supernatant derived from lysed or fractionated cells. For example, Simons, et al., *Protein Eng.* 6: 763-770 (1993), used genetically engineered *E. coli* to express bovine β -casein. The protein, which accumulated in the periplasmic spaces of the bacteria, was released into a cell suspension by osmotic shock. After centrifugation of the suspension, the β -casein in the pellet was 20 resuspended in a cold water wash and centrifuged again. The β -casein, present in the supernatant, was precipitated by acidification with acetic acid, filtered, and further purified by HPLC. Similarly, Hansson, et al., *Protein Express. Purif.* 4:373-381, 1993, used genetically engineered *E. coli* to express β -casein. The β -casein, present in a cell lysate, was precipitated with ammonium sulfate, dissolved in ethanolamine and 6M urea, 25 and further purified by ion-exchange chromatography. See, e.g., U.S. Patent No. 6,121,421.

30 Additionally, methods for isolating recombinantly produced β -casein in yeast that are simpler and more effective than known techniques are also known. Choi et al., *J. Agric. Food Chem.* 49(4):1761-1766, 2001. Expression and purification of glycosylated bovine β -casein (L70S/P71S) in *Pichia pastoris*, resulted in the observation that the

majority of bovine β -casein was not being hyperglycosylated in *P. pastoris*, and its molecular weight was estimated to be 33.6 kDa. Glycosylated bovine β -casein was normally phosphorylated to the same degree as native bovine β -casein.

5 ***K-Casein***

Kappa-casein is both phosphorylated and glycosylated. The sequence of human κ -casein was determined by Brignon et al. (Fed. Eur. Biol. Soc. Lett. 188:48-54, 1985). See, e.g., U.S. Patent No. 5,710,044.

10 Non-limiting examples of κ -casein proteins are SEQ ID Nos: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, and 23. Non-limiting examples of nucleic acid sequences encoding a κ -casein protein are SEQ ID NOs: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, and 148. A κ -casein protein can be a κ -casein protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat,
15 mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth κ -casein protein. Additional sequences for different κ -casein proteins and nucleic acids encoding different κ -casein proteins are known in the art.

A κ -casein protein can also be a proteins that is at least 50% (e.g., at least 55%, at
20 least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype κ -casein protein (e.g., SEQ ID Nos: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, or 23). A nucleic acid encoding a κ -casein protein can encode a protein that is at least 50% (e.g., at least 55%, at
25 least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype κ -casein protein (e.g., SEQ ID Nos: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, or 23).

30

α -S1-Casein

Non-limiting examples of α -S1-casein proteins are SEQ ID Nos: 48, 50, 52, 54, 56, 57, 59, 61, 63, 64, 66, 68, 70, 72, 74, and 76. Non-limiting examples of nucleic acid sequences encoding an α -S1-casein protein are SEQ ID NOs: 49, 51, 53, 55, 58, 60, 62, 65, 67, 69, 71, 73, 75, 77, and 147. A α -S1-casein protein can be an α -S1-casein protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth α -S1-casein protein. Additional sequences for different α -S1-casein proteins and nucleic acids encoding different α -S1-casein proteins are known in the art.

An α -S1-casein protein can also be a proteins that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype α -S1-casein protein (e.g., SEQ ID Nos: 48, 50, 52, 54, 56, 57, 59, 61, 63, 64, 66, 68, 70, 72, 74, or 76). A nucleic acid encoding an α -S1-casein protein can encode a protein that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype α -S1-casein protein (e.g., SEQ ID Nos: 48, 50, 52, 54, 56, 57, 59, 61, 63, 64, 66, 68, 70, 72, 74, or 76).

 α -S2-Casein

Non-limiting examples of α -S2-casein proteins are SEQ ID Nos: 78, 80, 82, 84, 86, 88, and 90. Non-limiting examples of nucleic acid sequences encoding an α -S2-casein protein are SEQ ID NOs: 79, 81, 83, 85, 87, 89, 91, 145, and 146. A α -S2-casein protein can be an α -S2-casein protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth α -S2-casein protein. Additional

sequences for different α -S2-casein proteins and nucleic acids encoding different α -S2-casein proteins are known in the art.

An α -S2-casein protein can also be a proteins that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype α -S2-casein protein (e.g., SEQ ID Nos: 78, 80, 82, 84, 86, 88, or 90). A nucleic acid encoding an α -S2-casein protein can encode a protein that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype α -S2-casein protein (e.g., SEQ ID Nos: 78, 80, 82, 84, 86, 88, or 90).

Micelles including Casein Proteins

In bovine milk, casein or casein micelles usually makes up 2.5% of the entire mixture in suspension. If sufficient casein is not present the micelles, which are very important for the optimum behavior of milk, will not form. Too much protein does not go into solution properly resulting in an undesirable mixture. The casein micelle can include water and salts - mainly calcium and phosphorous. Casein micelles are easily separated and removed by centrifugation. Separation from whey is easily done by precipitating casein with an acid to lower the pH to around 4.6.

In some embodiments, a micelle can include a β -casein protein (e.g., any of the β -casein proteins described herein) and κ -casein protein (e.g., any of the κ -casein proteins described herein). In some examples, the ratio of β -casein protein to κ -casein protein in the micelle is about 2.0:1 to about 5.5:1, 2.0:1 to about 5.0:1, 2.0:1 to about 4.5:1, about 2.0:1 to about 4.0:1, about 2.0:1 to about 3.5:1, about 2.0:1 to about 3.0:1, about 2.0:1 to about 2.5:1, about 2.5:1 to about 5.0:1, about 2.5:1 to about 4.5:1, about 2.5:1 to about 4.0:1, about 2.5:1 to about 3.5:1, about 2.5:1 to about 3.0:1, 3.0:1 to about 5.0:1, about 3.0:1 to about 4.5:1, about 3.0:1 to about 4.0:1, about 3.0:1 to about 3.5:1, about 3.5:1 to about 5.0:1, about 3.5:1 to about 4.5:1, about 3.5:1 to about 4.0:1, about 4.0:1 to about 5.0:1, about 4.0:1 to about 4.5:1, or about 4.5:1 to about 5.0:1.

In some examples, the micelle has a diameter (or a population of micelles have an average diameter) of about 20 nm to about 350 nm, about 320 nm, about 300 nm, about

280 nm, about 260 nm, about 240 nm, about 220 nm, about 200 nm, about 180 nm, about 160 nm, about 140 nm, about 120 nm, about 100 nm, about 80 nm, about 60 nm, or about 40 nm; about 40 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, about 220 nm, about 200 nm, about 180 nm, about 160 nm, about 140 nm, about 120 nm, about 100 nm, about 80 nm, or about 60 nm; about 60 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, about 220 nm, about 200 nm, about 180 nm, about 160 nm, about 140 nm, about 120 nm, or about 100 nm; about 80 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, about 220 nm, about 200 nm, about 180 nm, about 160 nm, about 140 nm, about 120 nm, or about 100 nm; about 100 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, about 220 nm, about 200 nm, about 180 nm, about 160 nm, about 140 nm, or about 120 nm; about 120 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, about 220 nm, about 200 nm, about 180 nm, about 160 nm, or about 140 nm; about 140 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, about 220 nm, about 200 nm, about 180 nm, or about 160 nm; about 160 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, about 220 nm, about 200 nm, or about 180 nm; about 180 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, about 220 nm, or about 200 nm; about 200 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, about 240 nm, or about 220 nm; about 220 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, about 260 nm, or about 240 nm; about 240 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, about 280 nm, or about 260 nm; about 260 nm to about 350 nm, about 340 nm, about 320 nm, about 300 nm, or about 280 nm; about 280 nm to about 350 nm, about 340 nm, about 320 nm, or about 300 nm; about 300 nm to about 350 nm or about 325 nm; or about 325 nm to about 350 nm.

30

Whey Proteins

Whey is commonly known as the by-product of cheese and is also known to be one cause for milk allergies. A typical whey composition comprises a mixture of β -lactoglobulin, α -lactalbumin, serum albumin, immunoglobulins, lactoferrin, and transferrin. Whey proteins do not contain phosphorus, and remain in solution at low pH whereas casein proteins do not. In one embodiment, a select combination of whey proteins comprising β -lactoglobulin and α -lactalbumin are used as the primary component, or at least a part of the milk protein component, of a composition. Non-limiting examples of different whey proteins are provided below.

α -Lactalbumin

Non-limiting examples of α -lactalbumin proteins are SEQ ID Nos: 92, 94, 96, and 98. Non-limiting examples of nucleic acid sequences encoding an α -lactalbumin protein are SEQ ID NOs: 93, 95, 97, 99, and 157. An α -lactalbumin protein can be an α -lactalbumin protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth α -lactalbumin protein. Additional sequences for different α -lactalbumin proteins and nucleic acids encoding different α -lactalbumin proteins are known in the art.

An α -lactalbumin protein can also be a proteins that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype α -lactalbumin protein (e.g., SEQ ID Nos: 92, 94, 96, or 98). A nucleic acid encoding an α -lactalbumin protein can encode a protein that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype α -lactalbumin protein (e.g., SEQ ID Nos: 92, 94, 96, or 98).

β-Lactoglobulin

Non-limiting examples of β-lactoglobulin proteins are SEQ ID Nos: 100, 102, 104, and 106. Non-limiting examples of nucleic acid sequences encoding a β-lactoglobulin protein are SEQ ID NOs: 101, 103, 105, 107, and 143. A β-lactoglobulin protein can be a β-lactoglobulin protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth β-lactoglobulin protein. Additional sequences for different β-lactoglobulin proteins and nucleic acids encoding different β-lactoglobulin proteins are known in the art.

A β-lactoglobulin protein can also be a proteins that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype β-lactoglobulin protein (e.g., SEQ ID Nos: 100, 102, 104, or 106). A nucleic acid encoding a β-lactoglobulin protein can encode a protein that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype β-lactoglobulin protein (e.g., SEQ ID Nos: 100, 102, 104, or 106).

Lactoferrin

Non-limiting examples of lactoferrin proteins are SEQ ID Nos: 108, 110, 112, and 114. Non-limiting examples of nucleic acid sequences encoding a lactoferrin protein are SEQ ID NOs: 109, 111, 113, and 115. A lactoferrin protein can be a lactoferrin protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth lactoferrin protein. Additional sequences for different lactoferrin proteins and nucleic acids encoding different lactoferrin proteins are known in the art.

A lactoferrin protein can also be a proteins that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype lactoferrin protein (e.g., SEQ ID Nos: 108, 110, 112, or 114). A nucleic acid encoding a lactoferrin protein can encode a protein that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype lactoferrin protein (e.g., SEQ ID Nos: 108, 110, 112, or 114).

10 ***Transferrin***

Non-limiting examples of transferrin proteins are SEQ ID Nos: 116 and 118. Non-limiting examples of nucleic acid sequences encoding a transferrin protein are SEQ ID NOs: 117 and 119. A transferrin protein can be a transferrin protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, 15 lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth transferrin protein. Additional sequences for different transferrin proteins and nucleic acids encoding different transferrin proteins are known in the art.

20 A transferrin protein can also be a proteins that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype transferrin protein (e.g., SEQ ID Nos: 116 or 118). A nucleic acid encoding a transferrin protein can encode a protein that is at least 80% (e.g., at least 85%, at least 90%, at least 25 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype transferrin protein (e.g., SEQ ID Nos: 116 or 118).

Serum Albumin

30 Non-limiting examples of serum albumin proteins are SEQ ID Nos: 120, 122, 124, and 126. Non-limiting examples of nucleic acid sequences encoding a serum

albumin protein are SEQ ID NOs: 121, 123, 125, and 127. A serum albumin protein can be a serum albumin protein from any mammalian species, e.g., a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth serum albumin protein. Additional sequences for different serum albumin proteins and nucleic acids encoding different serum albumin proteins are known in the art.

A serum albumin protein can also be a proteins that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype serum albumin protein (e.g., SEQ ID Nos: 20, 122, 124, or 126). A nucleic acid encoding a serum albumin protein can encode a protein that is at least 80% (e.g., at least 85%, at least 90%, at least 91%, at least 92%, at least 93%, at least 94%, at least 95%, at least 96%, at least 97%, at least 98%, at least 99%, or at least 99.5%) identical to a wildtype serum albumin protein (e.g., SEQ ID Nos: 20, 122, 124, or 126).

Lipids in Mammal-Produced Milk

Milk fat contains approximately 400 different fatty acids, which makes it the most complex of all natural fats. The milk fatty acids are derived almost equally from two sources, the feed and the microbial activity in the rumen of the cow and the lipids in bovine milk are mainly present in globules as an oil-in-water emulsion. Fat is present in all natural dairy products and is critical for sensory characteristics such as flavor, mouthfeel and consistency. In addition, fats provide nutrition and health benefits.

The milk fat consists mainly of triglycerides, approximately 98%, while other milk lipids are diacylglycerol (about 2% of the lipid fraction), cholesterol (less than 0.5%), phospholipids (about 1%) and free fatty acids (FFA) (about 0.1%) Jensen RG, Newburg DS. Bovine milk lipids, Handbook of milk composition. Jensen RG London: Academic Press; 1995. 543–75. In addition, there are trace amounts of ether lipids, hydrocarbons, fat-soluble vitamins, flavor compounds and compounds introduced by the feed (Lindmark Mansson H., Food & Nutrition Research 2008. DOI: 10.3402/fnr.v52i0.1821)

Milk fat triglycerides are synthesized from more than 400 different fatty acids, which makes milk fat the most complex of all natural fats. Nearly all fatty acids in milk are present in trace quantities and only about 15 acids at the 1% level or higher. Many factors are associated with the variations in the amount and fatty acid composition of bovine milk lipids. They may be of animal origin, i.e. related to genetics (breed and selection), stage of lactation, mastitis and ruminal fermentation, or they may be feed-related factors, i.e. related to fibre and energy intake, dietary fats, and seasonal and regional effects. The fatty acids in the milk fat are arranged in the triglycerides in accordance with a pattern that appears to be universal among ruminants. The percent unsaturated fatty acids (e.g., oleic and linolenic) in goats do not differ from the average found for cow's milk. A major difference between the milk fat of the goat and the cow is the percentage distribution among specific short chain fatty acids. Goats have an appreciably higher proportion of capric, caprylic and caproic acids. The high amounts of these specific fatty acids are responsible for the characteristic flavor and odor associated with goat's milk. John C. Bruhn, FST, UC Davis, Davis, CA 95616-8598; Seewww.drinc.ucdavis.edu/goat1.htm; www.ncbi.nlm.nih.gov/pmc/articles/PMC2596709/#__ffn__sectitle; Food Nutr Res. 2008; 52: 10.3402/fnr.v52i0.1821. Published online Jun 11, 2008. doi: 10.3402/fnr. v52i0.1821.

The milk fatty acids are derived almost equally from two sources, the feed and the microbial activity in the rumen of the cow. The fatty acid synthesizing system in the mammary gland of the cow produces fatty acids with even number of carbons of 4–16 carbons in length and accounts for approximately 60 and 45% of the fatty acids on a molar and weight basis, respectively. This *de novo* synthesis in the mammary gland is of the 4:0–14:0 acids together with about half of the 16:0 from acetate and β -hydroxybutyrate. Acetate and butyric acid are generated in the rumen by fermentation of feed components. The butyric acid is converted to β -hydroxybutyrate during absorption through the rumen epithelium.

Medium- and long-chain fatty acids, but mainly 18:0, may be desaturated in the mammary gland to form the corresponding monosaturated acids.

Fatty acids are not randomly esterified at the three positions of the triacylglycerol molecule (MacGibbon AHK, Taylor MW. Composition and structure of bovine milk

lipids Advanced dairy chemistry. Fox PFMcSweeney PLH New York: Springer; 2006. 1–42.). The short-chain acids butyric (4:0) and caproic (6:0) are esterified almost entirely at sn-3. Medium-chain fatty acids (8:0–14:0) as well as 16:0 are preferentially esterified at positions sn-1 and sn-2. Stearic acid (18:0) is selectively placed at position sn-1, whereas oleic acid (18:1) shows preference for positions sn-1 and sn-3 (Lindmark 2008).

Milk replacers with a fat component formulated to selected fatty acid profiles exist, however, such triglycerides are not interesterified into long-chain monounsaturated fatty acid triglycerides such as found in vegetable oils. U.S. Patent Appl. No. 20140147548 discloses milk replacers for young animals with by adding medium chain triglyceride, specifically caproic, caprylic, capric and lauric fatty acid or a combination thereof.

Lipids in the Present Compositions

The lipids in any of the compositions or used in any of the methods described herein can include: one or more fats, one or more oils, one or more monoglycerides, diglycerides, and/or triglycerides, one or more free fatty acids, and one or more phospholipids. Exemplary oils, monoglycerides, diglycerides, free fatty acids, and phospholipids are described below. Additional examples of fats, oils, monoglycerides, diglycerides, triglycerides, free fatty acids, and phospholipids are known in the art.

Oils

Oils used in the present compositions or methods can include, e.g., plant-derived oils. Non-limiting examples of plant-based oils include sunflower oil, coconut oil, peanut oil, corn oil, cottonseed oil, olive oil, palm oil, rapeseed oil, safflower oil, sesame oil, soybean oil, almond oil, beech nut oil, brazil nut oil, cashew oil, hazelnut oil, macadamia nut oil, mongongo nut oil, pecan oil, pine nut oil, pistachio nut oil, walnut oil, and avocado oil.

Monoglycerides and Diglycerides

Monoglycerides and diglycerides that can be used in the present invention can be plant-derived monoglycerides and diglycerides. For example, monoglycerides and

diglycerides can be derived from sunflowers, coconuts, peanuts, cottonseed, olives, palm, rapeseed, safflowers, sesame seed, soybeans, almonds, beech nuts, brazil nuts, cashews, hazelnuts, macadameia nuts, mongongo nuts, pecans, pine nuts, pistachios, walnuts, and avocados. The monoglycerides and diglycerides can include the acyl chain of any of the free fatty acids listed herein. Additional examples of monoglycerides and diglycerides are known in the art.

Free Fatty Acids

The compositions described herein can include and the methods described herein can include the use of one or more free fatty acids. Non-limiting examples of free fatty acids include butyric acid, caproic acid, caprylic acid, and capric acid. Additional examples of fatty acids include lauric acid, myristic acid, palmitic acid, stearic acid, arachidic acid, behenic acid, lignoceric acid, cerotic acid, myristoleic acid, pamitoleic acid, sapienic acid, oleic acid, elaidic acid, vaccenic acid, linoleic acid, linoelaidic acid, α -linolenic acid, arachidonic acid, eicosapentaenoic acid, erucic acid, docosahexaenoic acid, omega-3 fatty acids, and omega-6 fatty acids. In some examples, the free fatty acid is saturated. In some examples, the free fatty acid is unsaturated. In some embodiments, the free fatty acids are not derived from or produced by a mammal. Additional examples of free fatty acids are known in the art.

Phospholipids

The compositions described herein and the methods described herein can include the use of one or more phospholipids. Non-limiting examples of phospholipids include lecithin phospholipids (e.g., soy lecithin phospholipids, sunflower lecithin phospholipids, cotton lecithin phospholipids, rapeseed lecithin phospholipids, rice bran lecithin phospholipids, and corn lecithin phospholipids). In some embodiments, the phospholipids are not derived from or produced by a mammal. Additional aspects of phospholipids are known in the art.

Flavor Compounds

Any of the compositions or methods described herein can include or include the use of one or more different flavor compounds. Non-limiting examples of flavor compounds include δ -decalactone, ethyl butyrate, 2-furyl methyl ketone, 2,3-pentanedione, γ -undecalactone, and δ -undecalactone. Additional examples of flavor compounds include artificial flavors, e.g., chocolate, coffee, strawberry, almond, hazelnut, vanilla, green tea, Irish cream, and coconut flavoring. Additional examples of flavor compounds are known in the art.

Ash

Any of the compositions or methods described herein can include or include the use of ash. Ash can, e.g., include one or more (two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, or twenty) of: calcium, phosphorous, potassium, sodium, citrate, chloride, phosphate, magnesium, iron, molybdenum, manganese, copper, thiamin (vitamin B1), riboflavin (vitamin B2), niacin (vitamin B3), pantothenic acid (vitamin B5), vitamin B6 (pyridoxine), vitamin B12 (cobalamin), vitamin C, folate, vitamins A, vitamin D, vitamin E, and vitamin K. In some examples, the ash includes one or more (two or three) of CaCl_2 , KH_2PO_4 , and Na_3 citrate. Ash can be provided as a powder or as a solution. Additional components in and aspects of ash are known in the art. In some embodiments, the ash is not derived from or produced by mammal.

Color Balancing Agents

A variety of different color balancing agents are known in the art. For example, a color balancing agent can be a compound from obtained from a plant (e.g., a monocot or a dicot). In some examples, the color balancing agent is a synthetic compound. In some examples, the color balancing agent is not obtained from or produced by a mammal or a mammalian cell. Non-limiting examples of color balancing agents include β -carotene and annatto.

30

Sweetening Agents

A sweetening agent can be a saccharide (e.g., a monosaccharide, a disaccharide, or a polysaccharide) or an artificial sweetener. Non-limiting examples of sweetening agents that are saccharides include glucose, mannose, maltose, fructose, galactose, lactose, sucrose, monatin, and tagatose. Additional examples of saccharides that can be used as a sweetening agent in any of the compositions or methods described herein are known in the art.

Non-limiting examples of sweetening agents that are artificial sweeteners include stevia, aspartame, cyclamate, saccharin, sucralose, mogrosides, brazzein, curculin, erythritol, glycyrrhizin, inulin, isomalt, ~~laecititol~~ lactitol, mabinlin, ~~malititol~~ maltitol, mannitol, miraculin, monatin, monelin, osladin, pentadin, sorbitol, thaumatin, xylitol, acesulfame potassium, advantame, alitame, aspartame-acesulfame, sodium cyclamate, dulcin, glucin, neohesperidin dihydrochalcone, neotame, and P-4000. Additional artificial sweeteners that can be used as sweetening agents in any of the compositions or methods described herein are known in the art.

Compositions

Provided herein are compositions including: about 0.3 g/L to about 1.1 g/L (e.g., about 0.3 g/L to about 1.0 g/L, about 0.3 g/L to about 0.9 g/L, about 0.3 g/L to about 0.8 g/L, about 0.3 g/L to about 0.7 g/L, about 0.3 g/L to about 0.6 g/L, about 0.3 g/L to about 0.5 g/L, about 0.3 g/L to about 0.4 g/L, about 0.4 g/L to about 1.1 g/L, about 0.4 g/L to about 1.0 g/L, about 0.4 g/L to about 0.9 g/L, about 0.4 g/L to about 0.8 g/L, about 0.4 g/L to about 0.7 g/L, about 0.4 g/L to about 0.6 g/L, about 0.4 g/L to about 0.5 g/L, about 0.5 g/L to about 1.1 g/L, about 0.5 g/L to about 1.0 g/L, about 0.5 g/L to about 0.9 g/L, about 0.5 g/L to about 0.8 g/L, about 0.5 g/L to about 0.7 g/L, about 0.5 g/L to about 0.6 g/L, about 0.6 g/L to about 1.1 g/L, about 0.6 g/L to about 1.0 g/L, about 0.6 g/L to about 0.9 g/L, about 0.6 g/L to about 0.8 g/L, about 0.6 g/L to about 0.7 g/L, about 0.7 g/L to about 1.1 g/L, about 0.7 g/L to about 1.0 g/L, about 0.7 g/L to about 0.9 g/L, about 0.7 g/L to about 0.8 g/L, about 0.8 g/L to about 1.1 g/L, about 0.8 g/L to about 1.0 g/L, about 0.8 g/L to about 0.9 g/L, about 0.9 g/L to about 1.1 g/L, about 0.9 g/L to about 1.0 g/L, about 1.0 g/L to about 1.1 g/L, or about 0.27 weight % to about 0.75 weight %) κ -casein

protein (e.g., any of the κ -casein proteins described herein); about 1.25 g/L to about 4.9 g/L (e.g., about 1.25 g/L to about 4.6 g/L, about 1.25 g/L to about 4.4 g/L, about 1.25 g/L to about 4.2 g/L, about 1.25 g/L to about 4.0 g/L, about 1.25 g/L to about 3.8 g/L, about 1.25 g/L to about 3.6 g/L, about 1.25 g/L to about 3.4 g/L, about 1.25 g/L to about 3.2 g/L, about 1.25 g/L to about 3.0 g/L, about 1.25 g/L to about 2.8 g/L, about 1.25 g/L to about 2.6 g/L, about 1.25 g/L to about 2.4 g/L, about 1.25 g/L to about 2.2 g/L, about 1.25 g/L to about 2.0 g/L, about 1.25 g/L to about 1.8 g/L, about 1.25 g/L to about 1.6 g/L, about 1.25 g/L to about 1.4 g/L, about 1.4 g/L to about 4.9 g/L, about 1.4 g/L to about 4.6 g/L, about 1.4 g/L to about 4.4 g/L, about 1.4 g/L to about 4.2 g/L, about 1.4 g/L to about 4.0 g/L, about 1.4 g/L to about 3.8 g/L, about 1.4 g/L to about 3.6 g/L, about 1.4 g/L to about 3.4 g/L, about 1.4 g/L to about 3.2 g/L, about 1.4 g/L to about 3.0 g/L, about 1.4 g/L to about 2.8 g/L, 1.4 g/L to about 2.6 g/L, about 1.4 g/L to about 2.4 g/L, about 1.4 g/L to about 2.2 g/L, about 1.4 g/L to about 2.0 g/L, about 1.4 g/L to about 1.8 g/L, about 1.4 g/L to about 1.6 g/L, about 1.6 g/L to about 4.9 g/L, about 1.6 g/L to about 4.6 g/L, about 1.6 g/L to about 4.4 g/L, about 1.6 g/L to about 4.2 g/L, about 1.6 g/L to about 4.0 g/L, about 1.6 g/L to about 3.8 g/L, about 1.6 g/L to about 3.6 g/L, about 1.6 g/L to about 3.4 g/L, about 1.6 g/L to about 3.2 g/L, about 1.6 g/L to about 3.0 g/L, about 1.6 g/L to about 2.8 g/L, 1.6 g/L to about 2.6 g/L, about 1.6 g/L to about 2.4 g/L, about 1.6 g/L to about 2.2 g/L, about 1.6 g/L to about 2.0 g/L, about 1.6 g/L to about 1.8 g/L, about 1.8 g/L to about 4.9 g/L, about 1.8 g/L to about 4.6 g/L, about 1.8 g/L to about 4.4 g/L, about 1.8 g/L to about 4.2 g/L, about 1.8 g/L to about 4.0 g/L, about 1.8 g/L to about 3.8 g/L, about 1.8 g/L to about 3.6 g/L, about 1.8 g/L to about 3.4 g/L, about 1.8 g/L to about 3.2 g/L, about 1.8 g/L to about 3.0 g/L, about 1.8 g/L to about 2.8 g/L, 1.8 g/L to about 2.6 g/L, about 1.8 g/L to about 2.4 g/L, about 1.8 g/L to about 2.2 g/L, about 1.8 g/L to about 2.0 g/L, about 2.0 g/L to about 4.9 g/L, about 2.0 g/L to about 4.6 g/L, about 2.0 g/L to about 4.4 g/L, about 2.0 g/L to about 4.2 g/L, about 2.0 g/L to about 4.0 g/L, about 2.0 g/L to about 3.8 g/L, about 2.0 g/L to about 3.6 g/L, about 2.0 g/L to about 3.4 g/L, about 2.0 g/L to about 3.2 g/L, about 2.0 g/L to about 3.0 g/L, about 2.0 g/L to about 2.8 g/L, 2.0 g/L to about 2.6 g/L, about 2.0 g/L to about 2.4 g/L, about 2.0 g/L to about 2.2 g/L, about 2.2 g/L to about 4.9 g/L, about 2.2 g/L to about 4.6 g/L, about 2.2 g/L to about 4.4 g/L, about 2.2 g/L to about 4.2 g/L, about 2.2 g/L to about 4.0 g/L, about 2.2

g/L to about 3.8 g/L, about 2.2 g/L to about 3.6 g/L, about 2.2 g/L to about 3.4 g/L, about
2.2 g/L to about 3.2 g/L, about 2.2 g/L to about 3.0 g/L, about 2.2 g/L to about 2.8 g/L,
2.2 g/L to about 2.6 g/L, about 2.2 g/L to about 2.4 g/L, about 2.4 g/L to about 4.9 g/L,
about 2.4 g/L to about 4.6 g/L, about 2.4 g/L to about 4.4 g/L, about 2.4 g/L to about 4.2
5 g/L, about 2.4 g/L to about 4.0 g/L, about 2.4 g/L to about 3.8 g/L, about 2.4 g/L to about
3.6 g/L, about 2.4 g/L to about 3.4 g/L, about 2.4 g/L to about 3.2 g/L, about 2.4 g/L to
about 3.0 g/L, about 2.4 g/L to about 2.8 g/L, 2.4 g/L to about 2.6 g/L, about 2.6 g/L to
about 4.9 g/L, about 2.6 g/L to about 4.6 g/L, about 2.6 g/L to about 4.4 g/L, about 2.6
10 g/L to about 4.2 g/L, about 2.6 g/L to about 4.0 g/L, about 2.6 g/L to about 3.8 g/L, about
2.6 g/L to about 3.6 g/L, about 2.6 g/L to about 3.4 g/L, about 2.6 g/L to about 3.2 g/L,
about 2.6 g/L to about 3.0 g/L, about 2.6 g/L to about 2.8 g/L, about 2.8 g/L to about 4.9
g/L, about 2.8 g/L to about 4.6 g/L, about 2.8 g/L to about 4.4 g/L, about 2.8 g/L to about
4.2 g/L, about 2.8 g/L to about 4.0 g/L, about 2.8 g/L to about 3.8 g/L, about 2.8 g/L to
about 3.6 g/L, about 2.8 g/L to about 3.4 g/L, about 2.8 g/L to about 3.2 g/L, about 2.8
15 g/L to about 3.0 g/L, about 3.0 g/L to about 4.9 g/L, about 3.0 g/L to about 4.6 g/L, about
3.0 g/L to about 4.4 g/L, about 3.0 g/L to about 4.2 g/L, about 3.0 g/L to about 4.0 g/L,
about 3.0 g/L to about 3.8 g/L, about 3.0 g/L to about 3.6 g/L, about 3.0 g/L to about 3.4
g/L, about 3.0 g/L to about 3.2 g/L, about 3.2 g/L to about 4.9 g/L, about 3.2 g/L to about
4.6 g/L, about 3.2 g/L to about 4.4 g/L, about 3.2 g/L to about 4.2 g/L, about 3.2 g/L to
20 about 4.0 g/L, about 3.2 g/L to about 3.8 g/L, about 3.2 g/L to about 3.6 g/L, about 3.2
g/L to about 3.4 g/L, about 3.4 g/L to about 4.9 g/L, about 3.4 g/L to about 4.6 g/L, about
3.4 g/L to about 4.4 g/L, about 3.4 g/L to about 4.2 g/L, about 3.4 g/L to about 4.0 g/L,
about 3.4 g/L to about 3.8 g/L, about 3.4 g/L to about 3.6 g/L, about 3.6 g/L to about 4.9
g/L, about 3.6 g/L to about 4.6 g/L, about 3.6 g/L to about 4.4 g/L, about 3.6 g/L to about
25 4.2 g/L, about 3.6 g/L to about 4.0 g/L, about 3.6 g/L to about 3.8 g/L, about 3.8 g/L to
about 4.9 g/L, about 3.8 g/L to about 4.6 g/L, about 3.8 g/L to about 4.4 g/L, about 3.8
g/L to about 4.2 g/L, about 3.8 g/L to about 4.0 g/L, about 4.0 g/L to about 4.9 g/L, about
4.0 g/L to about 4.6 g/L, about 4.0 g/L to about 4.4 g/L, about 4.0 g/L to about 4.2 g/L,
about 4.2 g/L to about 4.9 g/L, about 4.2 g/L to about 4.6 g/L, about 4.2 g/L to about 4.4
30 g/L, about 4.4 g/L to about 4.9 g/L, about 4.4 g/L to about 4.6 g/L, about 4.6 g/L to about
4.9 g/L, or about 1.23 weight % to about 3.27 weight %) β -casein protein (e.g., any of the

β -casein proteins described herein); a final total concentration of one or more lipids (e.g., any one or more of the lipids described herein) of about 0 weight % to about 45 weight % (e.g., 0 weight %; about 0 weight % to about 4.5 weight %; about 0.5 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, about 15 weight %, about 10 weight %, about 8 weight %, about 6 weight %, about 5 weight %, about 4 weight %, about 3 weight %, about 2 weight %, or about 1 weight %; about 1.0 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, about 15 weight %, about 10 weight %, about 8 weight %, about 6 weight %, about 5 weight %, about 4 weight %, about 3 weight %, or about 2 weight %; about 2 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, about 15 weight %, about 10 weight %, about 8 weight %, about 6 weight %, about 5 weight %, about 4 weight %, or about 3 weight %; about 3 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, about 15 weight %, about 10 weight %, about 8 weight %, about 6 weight %, about 5 weight %, or about 4 weight %; about 4 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, about 15 weight %, about 10 weight %, about 8 weight %, about 6 weight %, or about 5 weight %; about 5 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, about 15 weight %, about 10 weight %, about 8 weight %, or about 6 weight %; about 6 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, about 15 weight %, about 10 weight %, or about 8 weight %; about 8 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, about 15 weight %, or about 10 weight %; about 10 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, about 20 weight %, or about 15 weight %; about 15 weight % to about 40 weight %, about 35 weight %, about 30 weight %, about 25 weight %, or about 20 weight %; about 20 weight % to about 40 weight %, about 35 weight %, about 30 weight %, or about 25 weight %; about 25 weight % to about 40 weight %, about 35 weight %, or about 30 weight %; about 30 weight % to about 40 weight %, or about 35 weight %; or about 35 weight % to about 40 weight %); a final total concentration of one or more flavor compounds (e.g., any of one or more of the

flavor compounds described herein) of about 0.01 weight % to about 6 weight % (e.g., about 0.1 weight % to about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, about 2.5 weight %, about 2.0 weight %, about 1.5 weight %, about 1.0 weight %, or about 0.5 weight %; about 0.5 weight % to about 6 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, about 2.5 weight %, about 2.0 weight %, about 1.5 weight %, or about 1.0 weight %; about 1.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, about 2.5 weight %, about 2.0 weight %, or about 1.5 weight %; about 1.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, or about 2.5 weight %; about 2.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, or about 2.5 weight %; about 2.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, or about 3.0 weight %; about 3.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, or about 3.5 weight %; about 3.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, or about 4.0 weight %; about 4.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %; about 4.5 weight % to about 6.0 weight %, about 5.5 weight %, or about 5.0 weight %; about 5.0 weight % to about 6.0 weight % or about 5.5 weight %; or about 5.5 weight % to about 6.0 weight %); a final total concentration of about 0.1 weight % to about 6 weight % (e.g., about 0.1 weight % to about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, about 2.5 weight %, about 2.0 weight %, about 1.5 weight %, about 1.0 weight %, or about 0.5 weight %; about 0.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, about 2.5 weight %, about 2.0 weight %, about 1.5 weight %, or about 1.0 weight %; about 1.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about

3.5 weight %, about 3.0 weight %, about 2.5 weight %, about 2.0 weight %, or about 1.5 weight %; about 1.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, about 2.5 weight %, or about 2.0 weight %; about 2.0 weight % to about 6.0 weight %; about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, or about 2.5 weight %; about 2.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, or about 3.0 weight %; about 3.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, or about 3.5 weight %; about 3.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, or about 4.0 weight %; about 4.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, or about 4.5 weight %; about 4.5 weight % to about 6.0 weight %, about 5.5 weight %, or about 5.0 weight %; about 5.0 weight % to about 6.0 weight %, or about 5.5 weight %; or about 5.5 weight % to about 6.0 weight %) of one or more sweetening agents (e.g., any one or more of the sweetening agents described herein); and a final total concentration of ash of about 0.15 weight % to about 1.5 weight % (e.g., about 0.15 weight % to about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.6 weight %, about 0.5 weight %, about 0.4 weight %, about 0.3 weight %, or about 0.2 weight %; about 0.2 weight % to about 1.5 weight %, about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.6 weight %, about 0.5 weight %, about 0.4 weight %, or about 0.3 weight %; about 0.3 weight % to about 1.5 weight %, about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.6 weight %, or about 0.5 weight %; about 0.5 weight % to about 1.5 weight %, about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.6 weight %, or about 0.5 weight %; about 0.5 weight % to about 1.5 weight %, about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.6 weight %, or about 0.5 weight %; about 0.5 weight % to about 1.5 weight %, about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, or about 0.6 weight %; about 0.6 weight % to about

1.5 weight %, about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, about 1.0 weight %, about 0.9 weight %, or about 0.8 weight %; about 0.8 weight % to about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, about 1.0 weight %, or about 0.9 weight %; about 0.9 weight % to about 1.5 weight %, about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, about 1.1 weight %, or about 1.0 weight %; about 1.0 weight % to about 1.5 weight %, about 1.4 weight %, about 1.3 weight %, about 1.2 weight %, or about 1.1 weight %; about 1.1 weight % to about 1.5 weight %, about 1.4 weight %, about 1.3 weight %, or about 1.2 weight %; about 1.2 weight % to about 1.5 weight %, about 1.4 weight %, or about 1.3 weight %; about 1.3 weight % to about 1.5 weight % or about 1.4 weight %; or about 1.4 weight % to about 1.5 weight %), where the composition does not comprise an animal-derived component.

Also provided are compositions including: about 0.3 g/L to about 1.1 g/L (e.g., any of the subranges of about 0.3 g/L to about 1.1 g/L described in the above paragraph) κ -casein protein (e.g., any of the κ -casein proteins described herein); about 1.25 g/L to about 4.9 g/L (e.g., any of the subranges of about 1.25 g/L to about 4.9 g/L described in the above paragraph) β -casein protein (e.g., any of the β -casein proteins described herein); a final total concentration of one or more lipids (e.g., any of the one or more lipids described herein) of about 0 weight % to about 45 weight % (e.g., any of the subranges of about 0 weight % to about 45 weight % described in the above paragraph); a final total concentration of one or more flavor compounds (e.g., any of the one or more flavor compounds described herein) of about 0.01 weight % to about 6 weight % (e.g., any of the subranges of about 0.01 weight % to about 6 weight % described in the above paragraph); a final total concentration of about 0.1 weight % to about 6 weight % (e.g., any of the subranges of about 0.1 weight % to about 6 weight % described herein) of one or more sweetening agents (e.g., any one or more sweetening agents described herein); and a final total concentration of ash (e.g., any of the exemplary ash described herein) of about 0.15 weight % to about 1.5 weight % (e.g., any of the subranges of about 0.15 weight % to about 1.5 weight % described in the above paragraph), where: the composition: does not include at least one component found in a mammal-produced milk; includes at least one component not present in a mammal-produced milk; and/or includes

a higher or lower concentration of at least one component as compared to the concentration of the at least one component in a mammal-produced milk. In some examples of these compositions, the composition includes a higher concentration of at least one component selected from the group of: calcium, phosphate, B complex vitamins, vitamin A, vitamin D, vitamin E, and vitamin K, as compared to the concentration of the one or more components in a mammal-produced milk. In some embodiments of these compositions, the composition does not include at least one component found in a mammal-produced milk selected from the group of: lactose, bacteria, mycobacteria, allergens, viruses, prions, yeast, growth hormones, leukocytes, antibiotics, heavy metals, immunoglobulins, lactoferrin, lactoperoxidase, and lipase. In some examples of these compositions, the composition includes at least one component not present in a mammal-produced milk selected from the group of an artificial sweetener, a plant-derived lipid, a β -casein protein that is non-glycosylated or has a non-mammalian glycosylation pattern, and a κ -casein protein that is non-glycosylated or has a non-mammalian glycosylation pattern.

Also provided are compositions including: about 0.3 g/L to about 1.1 g/L (e.g., any of the subranges of about 0.3 g/L to about 1.1 g/L described in this section) κ -casein protein (e.g., any of the κ -casein proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern; about 1.25 g/L to about 4.9 g/L (e.g., any of the subranges of about 1.25 g/L to about 4.9 g/L described in this section) β -casein protein (e.g., any of the β -casein proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern; a final total concentration of one or more lipids (e.g., any of the one or more lipids described herein) of about 0 weight % to about 45 weight % (e.g., any of the subranges of about 0 weight % to about 45 weight % described in this section); a final total concentration of one or more flavor compounds (e.g., any of the one or more flavor compounds described herein) of about 0.01 weight % to about 6 weight % (e.g., any of the subranges of about 0.01 weight % to about 6 weight % described in this section); a final total concentration of about 0.1 weight % to about 6 weight % (e.g., any of the subranges of about 0.1 weight % to about 6 weight % described in this section) of one or more sweetening agents (e.g., any of the one or more sweetening agents described herein); and a final total concentration of ash (e.g., any of the ash described herein) of

about 0.15 weight % to about 1.5 weight % (e.g., any of the subranges of about 0.15 weight % to about 1.5 weight % described in this section).

Also provided are compositions including a micelle including a κ -casein protein (e.g., any of the κ -casein proteins described herein) and a β -casein protein (e.g., any of the β -casein proteins described herein), where the micelle has a diameter of about 50 nm to about 350 nm (e.g., any of the subranges of the diameter of a micelle described herein), and the κ -casein protein and the β -casein protein are unglycosylated or have a non-mammalian glycosylation pattern. In some embodiments, the composition includes a final concentration of micelles of about 2.0 weight % to about 6 weight % (e.g., about 2.0 weight % to about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, or about 2.5 weight %; about 2.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, or about 3.0 weight %; about 3.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, or about 3.5 weight %; about 3.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, or about 3.5 weight %; about 3.5 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, about 4.5 weight %, or about 4.0 weight %; about 4.0 weight % to about 6.0 weight %, about 5.5 weight %, about 5.0 weight %, or about 4.5 weight %; about 4.5 weight % to about 5.5 weight %, or about 5.0 weight %; about 5.0 weight % to about 6.0 weight % or 5.5 weight %; or about 5.5 weight % to about 6.0 weight %). In some embodiments of these compositions, the ratio of the β -casein protein to the κ -casein protein in the micelle is about 2.0:1 to about 5.5:1 (e.g., any of the subranges of the ratios about 2.0:1 to about 5.5:1 described for the micelle herein). In some embodiments, these compositions further include: a final total concentration of one or more lipids (e.g., any of the one or more lipids described herein) of about 0 weight % to about 45 weight % (e.g., any of the subranges of about 0 weight % to about 45 weight percent described in this section); a final total concentration of one or more flavor compounds (e.g., any of the one or more flavor compounds described herein) of about 0.01 weight % to about 6 weight % (e.g., any of the subranges of 0.01

weight % to about 6 weight % described in this section); a final total concentration of about 0.1 weight % to about 6 weight % (e.g., any of the subranges of about 0.1 weight % to about 6 weight % described in this section) of one or more sweetening agents (e.g., any one or more of the sweetening agents described herein); and a final total concentration of ash (e.g., any of the ash described herein) of about 0.15 weight % to about 1.5 weight % (e.g., any of the subranges of about 0.15 weight % to about 1.5 weight % described in this section).

In some embodiments of any of the compositions described herein, the one or more lipids are selected from the group consisting of: sunflower oil, coconut oil, tributyrin, mono- and di-glycerides, free fatty acids, and phospholipids. Some examples of any of the compositions described herein further include one or more of: a final concentration of sunflower oil of about 1 weight % to about 28 weight % (e.g., about 1 weight % to about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %, about 16 weight %, about 14 weight%, about 12 weight %, about 10 weight %, about 8 weight %, about 6 weight %, about 4 weight %, or about 2 weight %; about 2 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %, about 16 weight %, about 14 weight%, about 12 weight %, about 10 weight %, about 8 weight %, about 6 weight %, or about 4 weight %; about 4 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %, about 16 weight %, about 14 weight%, about 12 weight %, about 10 weight %, about 8 weight %, or about 6 weight %; about 6 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %, about 16 weight %, about 14 weight%, about 12 weight %, about 10 weight %, or about 8 weight %; about 8 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %, about 16 weight %, about 14 weight%, about 12 weight %, or about 10 weight %; about 10 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %, about 16 weight %, about 14 weight%, or about 12 weight %; about 12 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %, about 16 weight %, or about 14 weight%; about 14 weight

5 % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %, or about 16 weight %; about 16 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, about 20 weight %, about 18 weight %; about 18 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %, or about 20 weight %; about 20 weight % to about 28 weight %, about 26 weight %, about 24 weight %, about 22 weight %; about 22 weight % to about 28 weight %, about 26 weight %, about 24 weight %; about 24 weight % to about 28 weight % or about 26 weight %; or about 28 weight % to about 30 weight %); a final concentration of coconut oil of about 0.5 weight % to about 14 weight % (e.g.,
10 about 0.5 weight % to about 12 weight %, about 10 weight %, about 8 weight %, about 6 weight %, about 4 weight %, about 2 weight %, or about 1 weight %; about 1 weight % to about 14 weight %, about 12 weight %, about 10 weight %, about 8 weight %, about 6 weight %, about 4 weight %, or about 2 weight %; about 2 weight % to about 12 weight %, about 10 weight %, about 8 weight %, about 6 weight %, or about 4 weight %; about 4
15 weight % to about 14 weight %, about 12 weight %, about 10 weight %, about 8 weight %, or about 6 weight %; about 6 weight % to about 14 weight %, about 12 weight %, about 10 weight %, or about 8 weight %; about 8 weight % to about 14 weight %, about 12 weight %, or about 10 weight %; about 10 weight % to about 14 weight % or 12 weight %; or about 12 weight % to about 14 weight %); a final concentration of tributyrin
20 of about 0.05 weight to about 1.0 weight % (e.g., between about 0.05 weight % to about 0.9 weight %, about 0.8 weight %, about 0.7 weight %, about 0.6 weight %, about 0.5 weight %, about 0.4 weight %, about 0.3 weight %, or about 0.2 weight %; 0.1 weight % to about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.7 weight %, about 0.6 weight %, about 0.5 weight %, about 0.4 weight %, about 0.3 weight %, or
25 about 0.2 weight %; about 0.2 weight % to about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.7 weight %, about 0.6 weight %, about 0.5 weight %, or about 0.4 weight %; about 0.4 weight % to about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.7 weight %, about 0.6 weight %, or about 0.5 weight %; about 0.5 weight % to about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, about 0.7 weight %, or about 0.6 weight %; about 0.6 weight % to about 1.0 weight %, about 0.9 weight %, about 0.8 weight %, or about 0.7 weight %; about 0.7 weight % to

about 1.0 weight %, about 0.9 weight %, or about 0.8 weight %; about 0.8 weight % to about 1.0 weight % or about 0.9 weight %; or about 0.9 weight % to about 1.0 weight %); a final total concentration of monoglycerides and diglycerides (e.g., any one or more of the monoglycerides or diglycerides described herein) of about 0.08 weight % to about 1.2 weight % (e.g., 0.08 weight % to about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, about 0.4 weight %, or about 0.2 weight %; about 0.2 weight % to about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, or about 0.4 weight %; about 0.4 weight % to about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, or about 0.6 weight %; about 0.6 weight % to about 1.2 weight %, about 1.0 weight %, or about 0.8 weight %; about 0.8 weight % to about 1.2 weight % or about 1.0 weight %; or about 1.0 weight % to about 1.2 weight %); and a final total concentration of free fatty acids of about 0.02 weight % to about 0.28 weight %; and a final total concentration of phospholipids (e.g., any one or more of the phospholipids described herein) of about 0.02 weight % to about 0.3 weight % (e.g., about 0.02 weight % to about 0.25 weight %, about 0.20 weight %, about 0.15 weight %, or about 0.10 weight %; about 0.05 weight % to about 0.3 weight %, about 0.25 weight %, about 0.20 weight %, about 0.15 weight %, or about 0.10 weight %; about 0.10 weight % to about 0.30 weight %, about 0.25 weight %, about 0.20 weight %, or about 0.15 weight %; about 0.15 weight % to about 0.30 weight %, about 0.25 weight %, or about 0.20 weight %; about 0.20 weight % to about 0.30 weight % or about 0.25 weight %; or about 0.25 weight % to about 0.30 weight %).

In some embodiments of any of the compositions, the free fatty acids include at least one (e.g., two, three, or four) fatty acid selected from the group of: butyric acid, caproic acid, caprylic acid, and capric acid. In some embodiments of any of the compositions, the phospholipids are soy lecithin phospholipids, sunflower lecithin phospholipids, cotton lecithin phospholipids, or rapeseed lecithin phospholipids. In some examples of any of the compositions described herein, the flavor compounds include at least one flavor compound selected from the group of: δ -decalactone, ethyl butyrate, 2-furyl methyl ketone, 2,3-pentanedione, γ -undecalactone, and δ -undecalactone. In some embodiments of any of the compositions described herein, the one or more sweetening agents is a saccharide (e.g., glucose, mannose, maltose, fructose, galactose, lactose,

sucrose, monatin, or tagatose). In some examples of any of the compositions described herein, the

one or more sweetening agents is an artificial sweetener (e.g., stevia, aspartame, cyclamate, saccharin, sucralose, mogrosides, brazzein, curculin, erythritol, glycyrrhizin, inulin, isomalt, ~~lactitol~~lactitol, mabinlin, ~~maltilol~~maltitol, mannitol, miraculin, monatin, monelin, osladin, pentadin, sorbitol, thaumatin, xylitol, acesulfame potassium, advantame, alitame, aspartame-acesulfame, sodium cyclamate, dulcin, glucin, neohesperidin dihydrochalcone, neotame, or P-4000).

In some examples of any of the compositions described herein, the ash includes one or more (e.g., two, three, four, five, or six) of: calcium, phosphorus, potassium, sodium, citrate, and chloride. In some embodiments of any of the compositions described herein, the ash comprises one or more (e.g., two or three) of CaCl_2 , KH_2PO_4 , and Na_3 citrate. Some embodiments of the compositions described herein include: a final concentration of CaCl_2 of about 0.05 g/L to about 0.2 g/L (e.g., about 0.05 g/L to about 0.15 g/L, about 0.05 g/L to about 0.10 g/L, about 0.10 g/L to about 0.20 g/L, about 0.10 g/L to about 0.15 g/L, or about 0.15 g/L to about 0.2 g/L); a final concentration of KH_2PO_4 of about 0.2 g/L to about 0.4 g/L (e.g., about 0.2 g/L to about 0.35 g/L, about 0.2 g/L to about 0.30 g/L, about 0.2 g/L to about 0.25 g/L, about 0.25 g/L to about 0.4 g/L, about 0.25 g/L to about 0.30 g/L, about 0.30 g/L to about 0.40 g/L, or about 0.30 g/L to about 0.35 g/L, or about 0.35 g/L to about 0.40 g/L); and/or a final concentration of Na_3 citrate of about 0.1 g/L to about 0.3 g/L (e.g., 0.1 g/L to about 0.25 g/L, about 0.1 g/L to about 0.20 g/L, about 0.1 g/L to about 0.15 g/L, about 0.15 g/L to about 0.30 g/L, about 0.15 g/L to about 0.25 g/L, about 0.15 g/L to about 0.20 g/L, about 0.20 g/L to about 0.30 g/L, about 0.20 g/L to about 0.25 g/L, or about 0.25 g/L to about 0.30 g/L).

In any of the composition described herein, the κ -casein protein can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth κ -casein protein. In any of the compositions described herein, the β -casein protein can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla,

chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth β -casein protein.

In some examples of any of the compositions described herein can further include: a final concentration of α -lactalbumin protein (e.g., any of the α -lactalbumin proteins described herein) of about 0.4 weight % to about 2.5 weight % (e.g., about 0.4 weight % to about 2.0 weight %, about 1.5 weight %, or about 1.0 weight %; about 1.0 weight % to about 2.5 weight %, about 2.0 weight %, or about 1.5 weight %, about 1.5 weight % to about 2.5 weight % or 2.0 weight %; or about 2.0 weight % to about 2.5 weight %), and/or a final concentration of β -lactoglobulin protein (e.g., any of the β -lactoglobulin proteins described herein) of about 2.5 weight % to about 4.5 weight %. In some embodiments of any of the compositions described herein, the α -lactalbumin protein can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth α -lactalbumin protein. In some embodiments of any of the compositions described herein, the β -lactoglobulin protein can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth β -lactoglobulin protein.

Some embodiments of any of the compositions described herein further include: a final concentration of α -S1-casein protein (e.g., any of the α -S1-casein proteins described herein) of about 11 weight % to about 16 weight % (e.g., about 11 weight % to about 15 weight %, about 14 weight %, about 13 weight %, or about 12 weight %; about 12 weight % to about 16 weight %, about 15 weight %, about 14 weight %, or about 13 weight %; about 13 weight % to about 16 weight %, about 15 weight %, or about 14 weight %; about 14 weight % to about 16 weight % or 15 weight %; or about 15 weight % to about 16 weight %); and/or a final concentration of α -S2-casein protein (e.g., any of the α -S2-casein proteins described herein) of about 2 weight % to about 5 weight % (e.g., about 2

weight % to about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, about 3.0 weight %, or about 2.5 weight %; about 2.5 weight % to about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, about 3.5 weight %, or about 3.0 weight %; about 3.0 weight % to about 5.0 weight %, about 4.5 weight %, about 4.0 weight %, or about 3.5 weight %; about 3.5 weight % to about 5 weight %, about 4.5 weight %, or about 4.0 weight %; about 4.0 weight % to about 5.0 weight % or 4.5 weight %; or about 4.5 weight % to about 5.0 weight %).

In some examples of any of the compositions described herein, the α -S1-casein protein can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth α -S1-casein protein; and/or the α -S2-casein protein can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth α -S2-casein protein.

Some examples of any of the compositions described herein further include one or more (e.g., two or three) of serum albumin (e.g., any of the serum albumin proteins described herein), lactoferrin (e.g., any of the lactoferrin proteins described herein), and transferrin (e.g., any of the transferrin proteins described herein). In some examples of any of the compositions described herein, the serum albumin can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth serum albumin; the lactoferrin can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth lactoferrin; and/or the transferrin can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur,

panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth transferrin protein.

5 In some examples of any of the compositions described herein, the composition further includes one or more color balancing agents (e.g., any of the coloring agents described herein, e.g., β -carotene or annatto).

10 Any of the compositions described herein can have a pH of about 6.2 to about 7.2 (e.g., about 6.2 to about 7.0, about 6.2 to about 6.8, about 6.2 to about 6.6, about 6.2 to about 6.4, about 6.4 to about 7.2, about 6.4 to about 7.0, about 6.4 to about 6.8, about 6.4 to about 6.6, about 6.6 to about 7.2, about 6.6 to about 7.0, about 6.6 to about 6.8, about 6.8 to about 7.2, about 6.8 to about 7.0, or about 7.0 to about 7.2).

15 In various embodiments, the milk protein components comprise about 0.5% about 1%, about 1.5%, about 2%, about 2.5%, about 3%, about 3.5%, about 4%, about 4.5%, about 5%, about 6% milk protein by dry weight or total weight. In some embodiments, the compositions can comprise about 0.5-2.5%, about 1-2%, about 2-3%, or about 4-10% protein by dry weight or total weight. In particular embodiments, the compositions can comprise about 10-15% protein by dry weight or total weight.

20 A wide range of caseins including casein with substantial homology to the wild-type casein, variants, mutants of casein are expressed and incorporated as a component of milk protein.

Dry Compositions

25 Also provided are powder compositions including: a final concentration of κ -casein protein (e.g., any of the α -casein proteins described herein) of about 3.6 weight % to about 5.4 weight % (e.g., about 3.6 weight % to about 5.2 weight %, about 5.0 weight %, about 4.8 weight %, about 4.6 weight %, about 4.4 weight %, about 4.2 weight %, about 4.0 weight %, or about 3.8 weight %; about 3.8 weight % to about 5.4 weight %, about 5.2 weight %, about 5.0 weight %, about 4.8 weight %, about 4.6 weight %, about 4.4 weight %, about 4.2 weight %, or about 4.0 weight %; about 4.0 weight % to about 5.4 weight %, about 5.2 weight %, about 5.0 weight %, about 4.8 weight %, about 4.6

weight %, about 4.4 weight %, or about 4.2 weight %; about 4.2 weight % to about 5.2 weight %, about 5.2 weight %, about 5.0 weight %, about 4.8 weight %, about 4.6 weight %, or about 4.4 weight %; about 4.8 weight % to about 5.4 weight %, about 5.2 weight %, or about 5.0 weight %; about 5.0 weight % to about 5.4 weight % or about 5.2 weight %; or about 5.2 weight % to about 5.4 weight %); a final concentration of β -casein protein (e.g., any of the β -casein proteins described herein) of about 16.3 weight % to about 24.5 weight %; 16.3 weight % to about 22 weight %, about 20 weight %, or about 18 weight %; about 18 weight % to about 24.5 weight %, about 22 weight %, or about 20 weight %; about 20 weight % to about 24.5 weight % to about 22 weight %; or about 22 weight % to about 24.5 weight %); a final concentration of a sweetening agent (e.g., any one or more of the sweetening agents described herein) of about 35 weight % to about 40 weight % (e.g., about 35 weight % to about 39 weight %, about 38 weight %, about 37 weight %, or about 36 weight %; about 36 weight % to about 40 weight %, about 39 weight %, about 38 weight %, or about 37 weight %; about 37 weight % to about 40 weight %, about 39 weight %, or about 38 weight %; about 38 weight % to about 40 weight % or 39 weight %; or about 39 weight % to about 40 weight %); a final concentration of one or more lipids (e.g., any of the one or more lipids described herein) of about 25 weight % to about 30 weight % (e.g., about 25 weight % to about 29 weight %, about 28 weight %, about 27 weight %, or about 26 weight %; about 26 weight % to about 30 weight %, about 29 weight %, about 28 weight %, or about 27 weight %; about 27 weight % to about 30 weight %, about 29 weight %, or about 28 weight %; about 28 weight % to about 30 weight % or about 29 weight %; or about 29 weight % to about 30 weight %); a final concentration of ash (e.g., any of the ash described herein) of about 5 weight % to about 7 weight % (e.g., about 5 weight % to about 6.5 weight %, about 6.0 weight %, or about 5.5 weight %; about 5.5 weight % to about 7.0 weight %, about 6.5 weight %, or about 6.0 weight %; about 6.0 weight % to about 7.0 weight % or about 6.5 weight %; or about 6.5 weight % to about 7.0 weight %); and a final concentration of water of about 2 weight % to about 5 weight % (e.g., about 2 weight % to about 4 weight % or about 3 weight %; about 3 weight % to about 5 weight % or about 4 weight %; or about 4 weight % to about 5 weight %), where the κ -casein protein is an unglycosylated

and/or has a non-mammalian glycosylation pattern, and/or the β -casein protein is an unglycosylated and/or has a non-mammalian glycosylation pattern.

Any of the powder compositions can contain any of the components described in any of the compositions described herein (e.g., one or more of any of the color matching agents, α -S1-casein proteins, α -S2-casein proteins, α -lactalbumin proteins, β -lactoglobulin proteins, lactoferrin proteins, transferrin proteins, and serum albumin protein described herein at any of the concentrations described herein for each component, respectively).

10 **Supplemented Milk Compositions**

Also provided herein are compositions including: a mammalian-produced milk or a processed mammal-produced milk; and one or more (e.g., two or three) of a κ -casein protein that is unglycosylated or has an non-mammalian glycosylation pattern; a β -casein protein that is unglycosylated or has an non-mammalian glycosylation pattern; or a micelle including a κ -casein protein that is unglycosylated or has an non-mammalian glycosylation pattern and a β -casein protein that is unglycosylated or has an non-mammalian glycosylation pattern.

In some examples, the composition includes a mammal-produced milk or a processed mammalian-produced milk and a κ -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern. In some examples, the composition includes a mammal-produced milk or a processed mammalian-produced milk and a β -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern. In other examples, the composition includes a mammal-produced milk or a processed mammalian-produced milk and a micelle including a κ -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern and a β -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern.

In some examples, the final concentration of the κ -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern or the final concentration of the β -casein protein that is unglycosylated or has a non-mammalian glycosylation pattern in the composition is: 0.02 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about

1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, about 0.4 weight %, about 0.2 weight %, or about 0.1 weight %; about 0.1 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, about 0.4 weight %, or about 0.2 weight %; about 0.2 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, or about 0.4 weight %; about 0.8 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, or about 1.0 weight %; about 1.0 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, or about 1.2 weight %; about 1.2 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, or about 1.4 weight %; about 1.4 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, or about 1.6 weight %; about 1.6 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, or about 1.8 weight %; about 1.8 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, or about 2.0 weight %; about 2.0 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, or about 2.2 weight %; about 2.2 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, or about 2.4 weight %; about 2.4 weight % to about 3.0 weight %, about 2.8 weight %, or about 2.6 weight %; about 2.6 weight % to about 3.0 weight % or about 2.8 weight %; or about 2.8 weight % to about 3.0 weight % (of the final composition).

30 In some compositions, the final concentration of the κ -casein protein that is unglycosylated and/or has a non-mammalian glycosylation pattern in the composition is

about 0.02 weight % to about 0.6 weight % (e.g., about 0.02 weight % to about 0.5 weight %, about 0.02 weight % to about 0.4 weight %, about 0.02 weight % to about 0.3 weight %, about 0.02 weight % to about 0.2 weight %, about 0.02 weight % to about 0.1 weight %, about 0.1 weight % to about 0.5 weight %, about 0.1 weight %, to about 0.4 weight %, about 0.1 weight % to about 0.3 weight %, about 0.1 weight % to about 0.2 weight %, about 0.2 weight % to about 0.5 weight %, about 0.2 weight % to about 0.4 weight %, about 0.2 weight % to about 0.3 weight %, about 0.3 weight % to about 0.5 weight %, about 0.3 weight % to about 0.4 weight %, or about 0.4 weight % to about 0.5 weight %); and the final concentration of β -casein that is unglycosylated and/or has a non-mammalian glycosylation pattern in the composition is about 0.02 weight % to about 4.0 weight %, about 3.8 weight %, about 3.6 weight %, about 3.4 weight %, about 3.2 weight %, about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, about 0.4 weight %, or about 0.2 weight %; about 0.2 weight % to about 4.0 weight %, about 3.8 weight %, about 3.6 weight %, about 3.4 weight %, about 3.2 weight %, about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, or about 0.4 weight %; about 0.4 weight % to about 4.0 weight %, about 3.8 weight %, about 3.6 weight %, about 3.4 weight %, about 3.2 weight %, about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, or about 0.6 weight %; about 0.6 weight % to about 4.0 weight %, about 3.8 weight %, about 3.6 weight %, about 3.4 weight %, about 3.2 weight %, about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, or about 0.8 weight %; about 0.8 weight % to about 4.0 weight %, about 3.8 weight %, about 3.6 weight %, about 3.4 weight %, about 3.2 weight %, about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about

weight %, about 3.6 weight %, about 3.4 weight %, about 3.2 weight %, or about 3.0 weight %; about 3.0 weight % to about 4.0 weight %, about 3.8 weight %, about 3.6 weight %, about 3.4 weight %, or about 3.2 weight %; about 3.2 weight % to about 4.0 weight %, about 3.8 weight %, about 3.6 weight %, or about 3.4 weight %; about 3.4 weight % to about 4.0 weight %, about 3.8 weight %, or about 3.6 weight %; about 3.6 weight % to about 4.0 weight % or about 3.8 weight %; or about 3.8 weight % to about 4.0 weight %.

In some examples, the final concentration of micelles including a κ -casein protein that is unglycosylated or has an non-mammalian glycosylation pattern and a β -casein protein that is unglycosylated or has an non-mammalian glycosylation pattern in the composition is: 0.02 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, about 0.4 weight %, about 0.2 weight %, or about 0.1 weight %; about 0.1 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, about 0.4 weight %, or about 0.2 weight %; about 0.2 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, about 1.0 weight %, about 0.8 weight %, about 0.6 weight %, or about 0.4 weight %; about 0.8 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, about 1.2 weight %, or about 1.0 weight %; about 1.0 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, about 1.6 weight %, about 1.4 weight %, or about 1.2 weight %; about 1.2 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, about 1.8 weight %, or about 1.4 weight %; about 1.4 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2

weight %, about 2.0 weight %, about 1.8 weight %, or about 1.6 weight %; about 1.6 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, about 2.0 weight %, or about 1.8 weight %; about 1.8 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, about 2.2 weight %, or about 2.0 weight %; about 2.0 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, about 2.4 weight %, or about 2.2 weight %; about 2.2 weight % to about 3.0 weight %, about 2.8 weight %, about 2.6 weight %, or about 2.4 weight %; about 2.4 weight % to about 3.0 weight %, about 2.8 weight %, or about 2.6 weight %; about 2.6 weight % to about 3.0 weight % or about 2.8 weight %; or about 2.8 weight % to about 3.0 weight % (of the final composition).

Nucleic Acids and Vectors

Also provided are nucleic acids (e.g., vectors) that include: a promoter (e.g., a yeast, bacterial, or a mammalian promoter); a sequence encoding a signal sequence; a sequence encoding a milk protein (e.g., any of the exemplary sequences described herein); and a yeast termination sequence, where the promoter is operably linked to the signal sequence, the signal sequence is operably linked to the sequence encoding the milk protein, and the terminal sequence is operably linked to the sequence encoding the milk protein. In some examples of these nucleic acids, the promoter is a constitutive promoter or an inducible promoter. Non-limiting examples of promoters are described herein. Additional promoters that can be used in these nucleic acids are known in the art.

The signal sequence in any of the vectors described herein can be a signal sequence from the encoded milk protein or a different milk protein, or is a signal sequence from a yeast mating factor (e.g., any alpha mating factor). In some examples, the encoded milk protein is selected from the group of: β -casein (e.g., any of the β -casein proteins described herein), κ -casein (e.g., any of the κ -casein proteins described herein), α -S1-casein (e.g., any of the α -S1-casein proteins described herein), α -S2-casein (e.g., any of the α -S2-casein proteins described herein), α -lactalbumin (e.g., any of the α -lactalbumin proteins described herein), β -lactoglobulin (e.g., any of the β -lactoglobulin proteins described herein), lactoferrin (e.g., any of the lactoferrin proteins described

herein), or transferrin (e.g., any of the transferrin proteins described herein). Additional signal sequences that can be used in the present vectors are known in the art.

Any of the nucleic acids described herein can further include a bacterial origin of replication. Any of the nucleic acids described herein can further include a selection
5 marker (e.g., an antibiotic resistance gene). The sequences of bacterial origin of replication are known in the art. Non-limiting examples of antibiotic resistance genes are described herein. Additional examples of resistance genes are known in the art.

Non-limiting examples of termination sequences are described herein. Additional examples of termination sequences are known in the art.

10 Some embodiments of the nucleic acids provided herein further include: an additional promoter sequence (e.g., any of the exemplary promoters described herein); an additional sequence encoding a signal sequence (e.g., any of the exemplary signal sequences described herein); a sequence encoding an additional milk protein (e.g., any of the exemplary sequences encoding a milk protein described herein); and an additional
15 yeast termination sequence (e.g., any of the exemplary yeast termination sequences described herein), where the additional promoter sequence is operably linked to the additional sequence encoding a signal sequence, the sequence encoding the signal sequence is operably linked to the sequence encoding the additional milk protein, and the sequence encoding the additional milk protein is operably linked to the additional yeast
20 terminal sequence. The additional milk protein can be, e.g., β -casein (e.g., any of the β -casein proteins described herein), κ -casein (e.g., any of the κ -casein proteins described herein), α -S1-casein (e.g., any of the α -S1-casein proteins described herein), α -S2-casein (e.g., any of the α -S2-casein proteins described herein), α -lactalbumin (e.g., any of the α -lactalbumin proteins described herein), β -lactoglobulin (e.g., any of the β -lactoglobulin
25 proteins described herein), lactoferrin (e.g., any of the lactoferrin proteins described herein), or transferrin (e.g., any of the transferrin proteins described herein). In some embodiments, the nucleic acid includes a sequence encoding a β -casein and a sequence encoding a κ -casein. The promoter and the additional promoter can be the same or different. The yeast termination sequence and the additional yeast terminal sequence can
30 be the same or different. The signal sequence and the additional signal sequence can be the same or different.

The present invention also encompasses a vector containing the isolated DNA sequence encoding casein or whey polypeptide and host cells comprising the vector. The vector may further comprise an isolated DNA sequence comprising a nucleotide sequence encoding a casein, wherein the nucleotide sequence is operably linked to a promoter, a nucleotide sequence encoding an alpha mating factor, or a variant thereof, a nucleotide sequence encoding a bacterial resistance marker and a transcription terminator. One or more of suitable promoters are utilized for expression of the genes encoding casein or whey proteins may be any promoter which is functional in the host cell and is able to elicit expression of the product encoded by the gene. Suitable promoters include, for example, $P_{LAC4-PBI}$, T7, Ptac, Pgal, λPL , λPR , bla, spa, Adh, CYC, TDH3, ADH1 and CLB1.

Introducing Nucleic Acids into a Cell

Methods of introducing nucleic acids (e.g., any of the nucleic acids described herein) into a cell to generate a host cell are well-known in the art. Non-limiting examples of techniques that can be used to introduce a nucleic acid into a cell include: calcium phosphate transfection, dendrimer transfection, liposome transfection (e.g., cationic liposome transfection), cationic polymer transfection, electroporation, cell squeezing, sonoporation, optical transfection, protoplast fusion, impalefection, hydrodynamic delivery, gene gun, magnetofection, and viral transduction.

One skilled in the art would be able to select one or more suitable techniques for introducing the nucleic acids into a cell based on the knowledge in the art that certain techniques for introducing a nucleic acid into a cell work better for different types of host cells. Exemplary methods for introducing a nucleic acid into a yeast cell are described in Kawai et al., *Bioeng. Bugs* 1:395-403, 2010.

Host Cells

Also provided herein a host cells including any of the nucleic acids (e.g., vectors) described herein. In some examples, the nucleic acid described herein is stably integrated within the genome (e.g., a chromosome) of the host cell. In other examples, the nucleic acid described herein is not stably integrated within the genome of the host cell.

In some embodiments, the host cell is a yeast strain or a bacterial strain. In some embodiments, the host cell can be, e.g., a yeast strain selected from the group of: a *Kluyveromyces* sp., *Pichia* sp., *Saccharomyces* sp., *Tetrahymena* sp., *Yarrowia* sp., *Hansenula* sp., *Blastobotrys* sp., *Candida* sp., *Zygosaccharomyces* sp., and *Debaryomyces* sp. Additional non-limiting examples of yeast strains that can be used as the host cell are *Kluyveromyces lactis*, *Kluyveromyces marxianus*, *Saccharomyces cerevisiae*, and *Pichia pastoris*. Additional species of yeast strains that can be used as host cells are known in the art.

In some examples, the host cell can be a protozoa, such as, e.g., *Tetrahymena thermophile*, *T. hegewischi*, *T. hyperangularis*, *T. malaccensis*, *T. pigmentosa*, *T. pyriformis*, and *T. vorax*.

It is an object of the invention to isolate milk protein components by recombinantly expressing them in any of the host cells provided herein.

15 **Methods of Producing a Recombinant Milk Protein and Methods of Making a Micelle**

Also provided are methods of producing a recombinant milk protein (e.g., one or more of any of the milk proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern that include: culturing any of the host cells described herein in a culture medium under conditions sufficient to allow for secretion of the milk protein that is unglycosylated or has a non-mammalian glycosylation pattern; and harvesting the milk protein that is unglycosylated or has a non-mammalian glycosylation pattern from the culture medium. Suitable culture medium for use in these methods are known in the art. Culture conditions sufficient to allow for secretion of a milk protein are also known in the art. The host cells used in these methods can be any of the host cells described herein. The host cells can include any of the nucleic acids described herein. The recombinant milk protein produced can be one or more of: β -casein (e.g., any of the β -casein proteins described herein), κ -casein (e.g., any of the κ -casein proteins described herein), α -S1-casein (e.g., any of the α -S1 caseins described herein), α -S2-casein (e.g., any of the α -S2-caseins described herein), α -lactalbumin (e.g., any of the α -lactalbumin proteins described herein), β -lactoglobulin (e.g., any of the β -lactoglobulin proteins

described herein), lactoferrin (e.g., any of the lactoferrin proteins described herein), transferrin (e.g., any of the transferrin proteins described herein), and serum albumin (e.g., any of the serum albumin proteins described herein). Some of these methods further include isolating (e.g., purifying) the recombinant milk protein from the culture medium. Methods of isolating (e.g., purifying) a recombinant milk protein from a liquid are well-known in the art. Exemplary methods for isolating (e.g., purifying) recombinant milk proteins are described in Imafidon et al., *Crit. Rev. Food Sci. Nutrition* 37:663-669, 1997),

Also provided are methods of producing a micelle including a β -casein (e.g., any of the β -casein proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern and a κ -casein (e.g., any of the κ -casein proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern, that include: culturing any of the host cells described herein in a culture medium under conditions sufficient to allow for release of the micelle from the host cell, where the host cell comprises nucleic acid including a sequence that encodes a β -casein and a sequence that encodes a κ -casein; and harvesting the micelle from the culture medium. Suitable culture medium for use in these methods are known in the art. The host cells used in these methods can be any of the host cells described herein. The host cells can include any of the nucleic acids described herein. The micelles produced can be any of the micelles described herein (and can have any of the physical characteristics of micelles described herein). Some of these methods further include isolating (e.g., purifying) the micelle from the culture medium. Methods of isolating (e.g., purifying) a micelle from a liquid are well-known in the art (e.g., ultracentrifugation).

Exemplary details of culturing yeast host cells are described in Idiris et al., *Appl. Microbiol. Biotechnol.* 86:403-417, 2010; Zhang et al., *Biotechnol. Bioprocess. Eng.* 5:275-287, 2000; Zhu, *Biotechnol. Adv.* 30:1158-1170, 2012; Li et al., *MAbs* 2:466-477, 2010.

It is an object of the invention to express one or more different forms of casein for application into various types of dairy substitute products. Casein subunits such as α -s1-casein, α -s2-casein, β -casein and κ -casein differ by one or more amino acid changes. In certain embodiments, the methods and compositions comprise incorporation of bovine

casein such as α -s1-casein, α -s2-casein, β -casein and κ -casein. In other embodiments, the methods and compositions comprise incorporation of human casein such as β -casein and κ -casein. See U.S. Patent No. 5,942,274. In alternative embodiments, casein is selected from one or more following sources including but not limited to: bovine, human, buffalo, camel, goat, sheep, horse, dolphin, whale, mountain goat and pig.

Also provided are methods for producing the milk protein components that can include, e.g., using a plasmid or construct of the invention as described in Example 1. This method comprises preparing the plasmid of interest, inserting the plasmid into an appropriate host cell, culturing the host cell for a suitable time and under suitable conditions such that the protein of interest is expressed, and then purifying the protein.

Proteins can be separated on the basis of their molecular weight, for example, by size exclusion chromatography, ultrafiltration through membranes, or density centrifugation. In some embodiments, the proteins can be separated based on their surface charge, for example, by isoelectric precipitation, anion exchange chromatography, or cation exchange chromatography. Proteins also can be separated on the basis of their solubility, for example, by ammonium sulfate precipitation, isoelectric precipitation, surfactants, detergents or solvent extraction. Proteins also can be separated by their affinity to another molecule, using, for example, hydrophobic interaction chromatography, reactive dyes, or hydroxyapatite. Affinity chromatography also can include using antibodies having specific binding affinity for the protein, nickel NTA for His-tagged recombinant proteins, lectins to bind to sugar moieties on a glycoprotein, or other molecules which specifically binds the protein.

Generally, centrifugation at an optimum pH yields purification efficiency >95%. Isoelectric point for the native caseins and whey proteins are known. In nature, the pH is 4.91 for bovine α -s1-casein, pH 4.1 for bovine α -s2-casein, pH 4.5 for bovine β -casein, pH 4.1 for bovine κ -casein, pH 4.2 for bovine α -lactalbumin, and pH 5.2 for bovine β -lactoglobulin. The recombinantly produced casein and whey can differ in terms of its phosphate groups and sugar groups. Other methods for protein purification include membrane filtration to remove any potential bacteria or contaminants, followed by lyophilization for protein isolation.

Preferably, the methods and compositions provide for a production cost that is competitive at or below \$1,000/kg, \$500/kg, \$10/kg, \$1.0/kg, \$0.10/kg, \$0.010/kg or \$0.0010/kg of milk protein component. In more preferred embodiments, the cost is below \$0.009, \$0.007, \$0.006, \$0.005/kg of milk protein component.

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Methods of Supplementing a Mammal-Produced Milk

Also provided herein are methods of supplementing a mammal-produced milk that include providing a mammalian-produced milk or a processed mammalian-produced milk; and mixing into the milk at least one of: a β -casein protein (e.g., any of the β -casein proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern; a κ -casein protein (e.g., any of the κ -casein proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern; and a micelle (e.g., any of the micelles described herein) comprising a β -casein protein (e.g., any of the β -casein proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern, and a κ -casein protein (e.g., any of the casein proteins described herein) that is unglycosylated or has a non-mammalian glycosylation pattern.

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One or more of the β -casein protein, the κ -casein protein, and the micelles can be mixed into the milk to achieve any of the exemplary final concentrations of the β -casein protein, the κ -casein protein, and the micelles in a composition described in the section called "Supplemented Milk Compositions" herein. Methods of mixing are well known in the art. As one of skill in the art can appreciate, additional components described herein can also be mixed into the milk (e.g., any component described herein without limitation).

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Methods of Making a Composition

Also provided are methods of producing a composition that include: sonicating a liquid including a protein mixture comprising β -casein protein (e.g., any of the β -casein proteins described herein) and casein κ protein (e.g., any of the κ -casein proteins described herein), or including micelles comprising β -casein protein (e.g., any of the β -casein proteins described herein) and κ -casein protein (e.g., any of the κ -casein proteins described herein); mixing ash (e.g., any of the ash described herein) into the liquid;

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adding to the liquid a mixture of one or more lipids (e.g., any of the one or more lipids described herein), one or more flavor compounds (e.g., any of the one or more flavor compounds described herein), and one or more color balancing agents (e.g., any of the one or more color balancing agents described herein), and sonicating the liquid; and
5 adding to the liquid one or more sweetening agents (e.g., one or more of any of the sweetening agents described herein), thereby producing the composition.

In some examples of these methods, the β -casein protein is unglycosylated or has a non-mammalian glycosylation pattern, and/or the κ -casein protein is unglycosylated or has a non-mammalian glycosylation pattern. In some examples of these methods, the ash
10 includes one or more of: calcium, phosphorus, potassium, sodium, citrate, and chloride. In some examples of any of these methods, the ash added includes one or more (e.g., two or three) of CaCl_2 , KH_2PO_4 , and Na_3 citrate.

In some examples of these methods, the one or more lipids comprises at least one (e.g., two, three, four, five, six, or seven) of: sunflower oil, coconut oil, tributyrin, mono-
15 and di-glycerides, free fatty acids, and phospholipids. In some examples of these methods, the free fatty acids comprise at least one fatty acid selected from the group of: butyric acid, caproic acid, caprylic acid, and capric acid. In some examples of these methods, the phospholipids are soy lecithin phospholipids, sunflower lecithin phospholipids, cotton lecithin phospholipids, or rapeseed lecithin phospholipids. In some
20 embodiments of these methods, the flavor compounds include at least one (e.g., two, three, four, five, or six) flavor compound selected from the group of: δ -decalactone, ethyl butyrate, 2-furyl methyl ketone, 2,3-pentanedione, γ -undecalactone, and δ -undecalactone.

In some examples of these methods, the one or more coloring balancing agent is β -carotene or annatto. In some embodiments of these methods, the one or more
25 sweetening agents is a saccharide (e.g., glucose, mannose, maltose, fructose, galactose, lactose, sucrose, monatin, or tagatose) or an artificial sweetener (e.g., stevia, aspartame, cyclamate, saccharin, sucralose, mogrosides, brazzein, curcumin, erythritol, glycyrrhizin, inulin, isomalt, ~~laecititol~~lactitol, mabinlin, ~~malititol~~maltitol, mannitol, miraculin, monatin, monelin, osladin, pentadin, sorbitol, thaumatin, xylitol, acesulfame potassium, advantame, alitame, aspartame-acesulfame, sodium cyclamate, dulcin, glucin,
30 neohesperidin dihydrochalcone, neotame, or P-4000).

The pH of the resulting composition can be between about pH 6.2 and about pH 7.4 (e.g., about 6.2 to about 7.2; about 6.2 to about 7.0, about 6.2 to about 6.8, about 6.2 to about 6.6, about 6.2 to about 6.4, about 6.4 to about 7.2, about 6.4 to about 7.0, about 6.4 to about 6.8, about 6.4 to about 6.6, about 6.6 to about 7.2, about 6.6 to about 7.0, about 6.6 to about 6.8, about 6.8 to about 7.2, about 6.8 to about 7.0, or about 7.0 to about 7.2).

In any of these methods, the β -casein protein can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth β -casein protein; and/or the κ -casein protein can be a cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth κ -casein protein.

In some embodiments of these methods, the protein mixture further comprises one or more proteins selected from the group of: α -lactalbumin (e.g., any of the α -lactalbumin proteins described herein), β -lactoglobulin (e.g., any of the β -lactoglobulin proteins described herein), α -S1-casein (e.g., any of the α -S1-casein proteins described herein), α -S2-casein (e.g., any of the α -S2-casein proteins described herein), lactoferrin (e.g., any of the lactoferrin proteins described herein), transferrin (e.g., any of the transferrin proteins described herein), and serum albumin (e.g., any of the serum albumin proteins described herein).

As one of skill in the art can appreciate, the amount of each component used in these methods can be calculated in order to produce any of the compositions described herein.

Methods of Making Butter, Cheese, Caseinate, or Yogurt

Also provided herein are methods of making butter, cheese, caseinate, or yogurt that include providing any of the compositions provided herein; and producing the butter,

cheese, caseinate, or yogurt using any of the composition provided herein as a starting material.

Methods for making butter, cheese, caseinate, or yogurt are well-known in the art. See, e.g., Scott, *Cheesemaking Practice*, Kluwer Academic/Plenum Publishers, New York, NY, 1998; U.S. Patent No. 4,360,535 (which describes methods of making 5 creams); U.S. 285,878 (which described methods of making butter);

Kits

Also provided are kits that include: (a) a mixture of one or more milk proteins 10 (e.g., any of the milk proteins described herein, including any one or more of the β -casein proteins, κ -casein proteins, α -S1-proteins, α -S2-proteins, α -lactalbumin proteins, β -lactoglobulin proteins, lactoferrin proteins, transferrin proteins, and serum albumin proteins described herein), one or more lipids (e.g., any of one or more of the lipids described herein), and one or flavor compounds (e.g., any one or more of the flavor 15 compounds described herein); and (b) a mixture of ash (e.g., any of the ash described herein) and at least one sweetening agent (e.g., any one or more of the sweetening agents described herein). In some examples of these kits, the one or more milk proteins are cow, human, sheep, goat, buffalo, camel, horse, donkey, lemur, panda, guinea pig, squirrel, bear, macaque, gorilla, chimpanzee, mountain goat, monkey, ape, cat, dog, wallaby, rat, 20 mouse, elephant, opossum, rabbit, whale, baboons, gibbons, orangutan, mandrill, pig, wolf, fox, lion, tiger, echidna, or woolly mammoth milk proteins.

In some examples of these kits, the one or more fats are selected from the group of: sunflower oil, coconut oil, tributyrin, mono- and di-glycerides, free fatty acids, and phospholipids. The fatty acids present in the kit can include at least one fatty acid 25 selected from the group of: butyric acid, caproic acid, caprylic acid, and capric acid. The phospholipids in the kit can be soy lecithin phospholipids, sunflower lecithin phospholipids, cotton lecithin phospholipids, or rapeseed lecithin phospholipids.

The flavor compounds in the kit can include at least one flavor compound selected from the group of: δ -decalactone, ethyl butyrate, 2-furyl methyl ketone, 2,3- 30 pentanedione, γ -undecalactone, and δ -undecalactone.

In some embodiments of the kit, the mixture in (a) further includes one or more color balancing agent (e.g., any of the color balancing agents described herein, e.g., β -carotene or annatto).

In some examples of the kits, the one or more sweetening agents is a saccharide (e.g., glucose, mannose, maltose, fructose, galactose, lactose, sucrose, monatin, or tagatose) or an artificial sweetener (e.g., stevia, aspartame, cyclamate, saccharin, sucralose, mogrosides, brazzein, curculin, erythritol, glycyrrhizin, inulin, isomalt, ~~laetitoll~~lactitol, mabinlin, ~~malititol~~maltitol, mannitol, miraculin, monatin, monelin, osladin, pentadin, sorbitol, thaumatin, xylitol, acesulfame potassium, advantame, alitame, aspartame-acesulfame, sodium cyclamate, dulcin, glucin, neohesperidin dihydrochalcone, neotame, or P-4000).

The kits can include an ash including one or more of: calcium, phosphorus, potassium, sodium, citrate, and chloride. In some examples, the ash in the kit includes one or more (e.g., two or three) of CaCl_2 , KH_2PO_4 , and Na_3 citrate.

In some embodiments of the kits, the mixture in (a) is provided in a light-sealed and airtight package (e.g., a metal foil, e.g., an aluminum foil), and/or the mixture in (b) is provided in an airtight package (e.g., a sealed plastic bag).

Some examples of the kits further include instructions for making any of the compositions described herein.

Also provided herein are kits including at least one nucleic acid described herein.

Modulating Flavor Profiles

Sensory impressions such as “feed,” “barny,” or “unclean,” are described as flavor descriptions that are absorbed from the food ingested by the cow and from the odours in its surroundings. Others develop through microbial action due to growth of bacteria in large numbers. Chemical changes can also take place through enzyme action, contact with metals (such as copper), or exposure to sunlight or strong fluorescent light. Quality-control directors are constantly striving to avoid off-flavors in milk and other dairy foods. It is, therefore, an object of the invention to reduce, eliminate or even mask the undesirable flavors and odor of various dairy products.

In certain preferred aspects of the present invention, varying the fat content can alter the flavors and odor of various dairy substitute products. For example, increasing the butyric acid content can change a flavor profile of a non-dairy cheese to a flavor profile similar to parmesan cheese. In other embodiments, modulating the triglycerides such caproic, capric, and/or caprylic acid results in a flavor profile similar to goat cheese. Accordingly, modulating the triglycerides with the ratios of fatty acid components provides different flavor profiles that can be fine-tuned to resemble those of various desirable dairy-food products.

Similarly, the methods and compositions provide for minimizing one or more undesirable aromas by modulating various triglycerides incorporated into the dairy substitute products.

In certain aspects flavor profile is modulated by incorporating synthetic short-chain triglycerides combined with plant-based oils e.g., sunflower oil, in desired combinations. For example a mixture of [C18 C18 C6] and [C18 C6 C18] provides a different flavor profile than a mixture of [C18 C4 C4] and [C18 C10 C10].

Dairy Substitute Products

A wide variety of dairy substitute products can be made using the methods and compositions of the present invention. Such products include without limitation, milk, whole milk, buttermilk, skim milk, infant formula, condensed milk, dried milk, evaporated milk, butter, clarified butter, cream and various types of cheese.

The dairy substitute products can also be incorporated into various food applications as a replacement for dairy products, which include the following ice cream, frozen custard, frozen yogurt, cookies, cakes, cottage cheese, cream cheese, crème fraiche, curds and yogurt.

In certain aspects, the present invention provides one or more subunits of casein selected from α -s1-casein, α -s2-casein, β -casein and κ -casein for the milk protein component in a dairy substitute product. A select combination of casein subunits are used as the primary or at least a part of the milk protein component. In preferred embodiments, the casein composition comprises the following amounts of casein subunits

such that about 12-15g/L α -s1-casein, about 3-4g/L α -s2-casein, about 9-11g/L β -casein and about 2-4g/L κ -casein represent the total casein in a synthetic milk product..

5 In various embodiments, the casein compositions can comprise about 0.5% about 1%, about 1.5%, about 2%, about 2.5%, about 3%, about 3.5%, about 4%, about 4.5%, about 5%, about 6%, protein by dry weight or total weight. In some embodiments, the casein compositions can comprise about 0.5-2.5%, about 1-2%, about 2-3%, or about 4-10% casein protein by dry weight or total weight. In particular embodiments, the casein compositions can comprise about 1.5-10% protein by dry weight or total weight.

10 In certain aspects, the methods and compositions of the dairy substitute products are essentially free of one or more serum proteins. Serum proteins typically comprise, among other proteins, enzymes, hormones, growth factors, nutrient transporters and disease resistance factors. In additional embodiments, the methods and compositions of the dairy substitute products are essentially free of one or more immunoglobulins, which may induce an undesirable immune response.

15 In some embodiments, whey compositions can comprise about 0.001%, about 0.05%, about 0.1%, about 0.5%, about 1%, about 1.5%, about 2%, about 2.5%, about 3%, about 3.5%, about 4% whey protein by dry weight or total weight. In some embodiments, the compositions can comprise about 0.1-1%, about 1-2%, about 2-3%, or about 0.1-2.3% protein by dry weight or total weight. In particular embodiments, the
20 compositions can comprise about 10-15% protein by dry weight or total weight.

In various embodiments, carbohydrates are incorporated into the dairy substitute products. These carbohydrates provide a bland sweetness to the flavor profile of the product and additionally serve as a fast-acting energy and nutrition source. Carbohydrates include but are not limited to sugars such as galactose, sucrose, glucose, fructose and
25 maltose. Dairy-free sources of sugars include but are not limited to sugar beet and other plants such as celery, basil, honey, cherries, corn, spinach, plums, kiwis and peas.

Lactose intolerance is common for many milk consumers. Accordingly, in preferred embodiments, carbohydrates such as lactose are omitted from the dairy substitute composition. In preferred embodiments, methods and compositions of the
30 dairy substitute composition essentially free of lactose.

In some embodiments, the carbohydrate compositions can comprise about 1%, about 1.5%, about 2%, about 2.5%, about 3%, about 3.5%, about 4%, about 4.5%, about 5% carbohydrate by dry weight or total weight. In some embodiments, the compositions can comprise about 1-3%, about 2-4%, or about 10-30% carbohydrate by dry weight or total weight. In particular embodiments, the compositions can comprise about 2-5% carbohydrate by dry weight or total weight.

Ash attributes to the structure and stability of casein micelles. Ash is important for holding the emulsion that is milk or cream together. The calcium and phosphate present in the ash interact with the fat globules and the casein micelles to maintain an emulsified mixture.

The ash also affects the sensory characteristics such as mouthfeel, consistency, and to a certain extent, the flavor of the milk.

In some embodiments, the ash compositions can comprise about 0.1%, about 0.2%, about 0.3%, about 0.4%, about 0.5%, about 0.6%, about 0.7%, about 0.8%, about 0.9%, about 1%, about 2% or about 3% ash by dry weight or total weight. In some embodiments, the compositions can comprise about 0.1-0.3%, about 0.5-0.7%, about 0.7-1%, or about 1-2% ash by dry weight or total weight. In particular embodiments, the compositions can comprise about 0.6-0.8% protein by dry weight or total weight.

Additional ingredients for various animal-free dairy products include vitamins, flavoring agents, natural or artificial sweeteners, coloring agents, salt, pH adjustment agents, binders, buffers, stabilizers, essential amino acids, anti-caking agents, anti-foaming agents, and mixtures thereof.

In some embodiments, the remaining ingredient compositions can comprise about 0%, about 0.01%, about 0.1%, about 0.5%, about 1%, about 2%, about 3%, about 4% or about 5% additives by dry weight or total weight. In some embodiments, the compositions can comprise about 0.001-0.01%, about 0.01-1%, about 0.01-2%, or about 1-5% additives by dry weight or total weight. In particular embodiments, the compositions can comprise about 0-10% additives by dry weight or total weight.

In some aspects, the present invention provides methods and compositions for dairy substitutes with fat comprising varying levels of triglyceride content. In preferred embodiments, isolated triglycerides from various plant sources are incorporated with milk

protein components, carbohydrates and ash. It is an object of the present invention to modulate the fatty acids isolated in plants and transesterified in a dairy substitute to resemble the percentage of fatty acids found in natural dairy products, and/or to develop novel flavor profiles with improved flavor not found in nature. In some embodiments, modulating specific short-to-medium chain fatty acids including but not limited to s butyric, capric, caprylic, caproic and lauric acids provides the desired flavor profile in a dairy substitute.

In some embodiments, the fat compositions in synthetic milk comprises about 0%, about 1%, about 2%, about 3%, about 3.5%, about 4% fat by dry weight or total weight.

In some embodiments, the compositions can comprise about 1-2%, about 2-3%, about 3-4% fat by dry weight or total weight. In particular embodiments, the compositions can comprise about 3-4% fat by dry weight or total weight. In alternative embodiments, fat compositions in cream can comprise about 10%, about 20%, about 30%, about 40%, about 50% or even 60%. Preferably, fat compositions in cream is typically about 40 to about 50%.

In some aspects, the short-chain triglycerides are combined with longer chain oil to produce transesterified fatty acid esters. Preferably, the longer chain oils are selected from: sunflower, corn, olive, soy, peanut, walnut, almond, sesame, cottonseed, canola, safflower, flax seed, palm, palm kernel, palm fruit, coconut, babassu, shea butter, mango butter, cocoa butter, wheat germ and rice bran oil. More preferably, the longer chain oils comprise engineered sunflower varieties, which overexpress oleic acid by 400%.

Longer chain oil can also provide to the flavor profile, for example, reduce or even remove sharpness and mellow out the overall flavor profile of the desired end product.

In some embodiments, the fat component of the dairy substitute comprises select triglycerides that are transesterified into longer chain oil such as high-oleic sunflower oil (Example 2). It is contemplated that the same four short chain fatty acids give milk and derivative products such as cheese their particular flavors such as robustness and richness. Various combinations of triglycerides and longer chain oils are incorporated to create a number of different flavor profiles. In one embodiment, triglyceride with three oleic acids and synthetic short-chain triglyceride with, in this case, one butyric, one

hexanoic, and one octanoic acid, yields a desired synthetic “milk fat” triglyceride. Additional embodiments include incorporating various short-chain triglycerides to tune slightly different flavor profiles, for instance, short-chain triglyceride comprising hexanoic acid; short-chain triglyceride comprising hexanoic acid and butyric acid; short-chain triglyceride comprising hexanoic acid and decanoic acid. Accordingly, methods and compositions provide for various combinations of synthetic short-chain triglycerides with the sunflower oil triglycerides resulting in different flavor profiles.

Synthetic Milk

An exemplary embodiment of synthetic milk formulation comprising microbially derived proteins of the present invention is illustrated in Example 4. For example, the present formulation incorporates all four subunits of bovine casein: α -s1-casein, α -s2-casein, β -casein and κ -casein and two whey proteins α -lactalbumin and β -lactoglobulin as the predominant milk protein components in the formulation. The exemplary synthetic milk formulation further comprises plant-based interesterified fats as shown in Figure 1. Additional components include carbohydrates and ash. The resulting milk substitute exhibits characteristics that looks, functions, tastes, smells, and feels like natural milk. As one of key facets of the present invention, modifying the formulations for synthetic milk can exhibit different sensory impressions such as flavoring by modulating the oil content, namely the types of triglycerides added to mimic milk of different flavors.

As described in Young W. Park, *Bioactive Components in Milk and Dairy Products, Technology & Engineering*, pp 60, 2009, sterols are a minor fraction of total lipids in milk, the main sterol being cholesterol (300 mg/100 g fat, equivalent to 10 mg/100 mL bovine milk) (Park et al., *Small Rumin. Res.* 68: 88-113, 2007). Goat milk has been shown to contain less cholesterol than other milk but generally contains higher total fat than cow milk. See, Posati et al., 1976. *Composition of Foods. Agric. Handbook No. 8 - 1*. ARS, USDA, Washington, D.C., 1976; Jenness, *J. Dairy Sci.* 63:1605 – 1630, 1980; and Juarez et al., *Intl. Dairy Fed. Bull. No. 202*. pp. 54-67, 1986, have shown that goat milk has greater palmitic and oleic acid fractions than cows. Cholesterol content was significantly varied among different breeds and most cholesterol in goat milk was in

free state, with only a small fraction in ester form 52 mg/100 g fat. See, e.g., Arora et al., Ind. J. Dairy Sci. 29: 191.

5 In certain embodiments, the methods and composition of the present invention provide synthetic milk product that has less cholesterol, or is cholesterol free or has the same cholesterol content in comparison to the dairy milk by modulating the oil content, namely the types of triglycerides. In other embodiments, the amount of saturated and unsaturated fats is also modulated in dairy substitutes to at least less or the same amount of fats in comparison to the dairy milk. In preferred embodiments the synthetic milk product of the present invention is very low in saturated fat but smells and tastes like 10 dairy milk. The long chain fatty acids, which are typically saturated fatty acids in milk, are instead monounsaturated acids such as oleic acid, in the preferred embodiments of the invention.

15 The present invention may not require or at least minimizes pasteurization, as each component can be rendered sterile separately, before combining through the formulation process. In other embodiments of the invention, synthetic milk product of the present invention can undergo pasteurization.

Homogenization is optional for the methods and compositions of the present invention as is the case for natural milk. When sold as a standalone liquid beverage, the synthetic milk product of the present invention can be sold in homogenized form.

20 Differences between the milk substitute of the present invention with dairy milk include flavor, nutritional value and storage stability. Flavorings can be adjusted to a desired sensory impression based on triglycerides as well as other natural or artificial flavors that can impart in blandness or sharpness or a different aroma such as cow, goat, coconut, almond or soy.

25 **Synthetic Cheese**

In other aspects of the present invention, methods and compositions comprising one or more isolated milk protein components, fats, carbohydrates and ash are provided to produce various types of cheese products. Generally, the cheese is made from the milk 30 protein components of the present invention. One or more sensory impressions are incorporated into the cheese product through modulating the triglycerides. Accordingly,

cheese with desired organoleptic characteristics with distinct appearance, aroma, taste and texture can be produced. For some cheese varieties, in addition to modulating the triglycerides, one or more bacteria is employed in the cheese making process for fermentation where fermentative products and by-products such as lactic acid, carbon dioxide, alcohols, aldehydes and ketones are produced. Types of cheese include whey cheese such as ricotta and mozzarella, semi-soft cheese include Havarti and Munster, medium-hard cheese such as Swiss and Jarlsberg, hard cheese such as Cheddar and soft ripened cheese such as Brie and Camembert.

10 **Synthetic Cream**

Directly usable cream substitutes should preferably comprise from about 50 to 90% by weight water, and more preferably from about 65 to 80% by weight water, with the base being dispersed within the water. The base for a substitute cream should advantageously contain (all percentages computed using the total weight of the base taken as 100%) from about 22 to 87% by weight carbohydrate (more preferably from about 30 to 64%), from about 12 to 70% by weight of particulate fat (most preferably from about 28 to 60%), and from about 0.4 to 8% by weight of a selected emulsifier or group thereof (most preferably from about 1 to 4%).

In preferred embodiments, the products of the invention are stable in aqueous emulsion. As used herein, a dried, liquid fat-containing non-dairy food product is said to be "stable" when the following minimum criteria are met: reconstituted emulsion stability, whitening capability, oiling or oil separation, feathering-precipitation. See U.S. Patent No. 4,310,561.

25 **Synthetic Butter**

Commercial butter is 80–82 % milk fat, 16–17 % water, and 1–2 % milk solids other than fat (sometimes referred to as curd).

Advantages of Dairy Substitute Products or the Compositions Provided Herein

30 Desirable advantages of the present invention are environmental in nature such as 8 times more energy efficient, 260 times more water efficient than conventional milk

product. Other environmental advantages include less water usage than conventional milk production, which is estimated to be about 1000 L/L and reduced land usage for conventional milk production typically requires grazing, crop land, ability to reduce the 600 billion kg of carbon dioxide per year that is emitted from conventional milk production. The present invention also provides reduction or elimination of costs of feed, operations, labor, animal and marketing. Preferably, substantially reduce feed cost by a factor of 8.

Advantages in food safety include reduction or removal of antibiotic residues, heavy metals, bacteria, adulterations. Accordingly, certain aspects of the present invention provide animal-free milk that is bacteria-free, requires no pasteurization or cold shipping yet has an increased shelf-life and exhibit a number of characteristics such as taste, appearance, handling and mouth feel properties which are identical or at least closely similar to their traditional dairy counterparts. Preferably, the dairy substitute products are essentially free of bacteria such as *Brucella*, *Campylobacter*, *Listeria*, *Mycobacterium*, *Salmonella*, *Shigella*, *Yersinia*, *Giardia* and noroviruses, and, thus are safer for consumption. Further advantage include minimal or no pasteurization and/or homogenization. More preferably, the dairy substitute is shelf stable for relatively long periods (e.g., at least three weeks and preferably longer) for production and distribution. Even more preferably, the dairy substitute products has a lower environmental impact.

Several aspects of the invention are described below with reference to example applications for illustration. It should be understood that numerous specific details, relationships, and methods are set forth to provide a full understanding of the invention. One having ordinary skill in the relevant art, however, will readily recognize that the invention can be practiced without one or more of the specific details or with other methods.

EXAMPLES

Example 1

Vectors

Protein sequences bovine α -S1 casein (UniProt accession #P02662), bovine α -2 casein (UniProt accession #P02663), bovine β -casein (UniProt accession #P02666), bovine κ -casein (UniProt accession #P02668), bovine α -lactalbumin (UniProt accession #B6V3I5) and bovine β -lactoglobulin (UniProt accession #P02754) were obtained on Uniprot.org and altered with the following changes: removed 15 or 21-residue signal peptide from N-terminal end; added *XhoI* (CTC GAG) endonuclease recognition sequence and KEX endopeptidase recognition sequence (AAA AGA) to 5' end of DNA; and added *Sall* (GTC GAC) endonuclease recognition sequence to 3' end of DNA. An additional combination sequence was made by combining the sequences for the four caseins in the order shown above, separating each sequence with the following DNA phrase:

[0001] GGC TCA GGA TCA GGG TCG AAA AGA GGC TCA GGA TCA GGG TCG (SEQ ID NO: 128).

[0002] Here the non-underlined segments encode a (GS)₆ linker sequence for adequate posttranslational spacing and accessibility to the KEX protease, and the underlined segment encodes the KEX endopeptidase sequence which cleaves the proteins apart post-translation. As above, the entire cassette is flanked on the 5' end by *XhoI* and on the 3' end by *Sall* for ligation into pKLAC2 (New England Biolabs, Beverly, MA). DNA was synthesized by either Gen9, Inc. (Cambridge, MA) or IDT (Coralville, IA). The plasmid used had, among other things, a multiple cloning site, a Lac promoter, an Acetamide based reporter gene and the alpha-mating factor gene, used as a fusion protein for secretion of exogenous proteins.

Yeast Transfection

Transfection of the yeast was accomplished by thawing a tube of 0.5 mL competent cells containing 25% glycerol on ice and adding 0.62 mL yeast transfection reagent. The mixture was then warmed at 30°C for 30 minutes, heat shocked at 37°C for 1 hour. The cells were then pelleted at 7000 rpm & washed twice with 1.0mL of YPGal medium. The cell mixture was then transferred to a sterile culture tube and incubated at

30°C for 3 hours, with constant shaking at 300 rpm. The cell mixture was then transferred to a sterile 1.5mL microcentrifuge tube and pelleted the cells at 7000 rpm for 2 minutes, and resuspended in 1 mL sterile 1X PBS. 10, 50 and 100 µL of the cell suspension was placed into separate fresh sterile 1.5 mL microcentrifuge tubes each containing 50 µL of sterile deionized water. Tubes were mixed briefly and spread onto separate yeast carbon base agar (YCB Agar) plates containing 5 mM acetamide for selection. Plates were then incubated, inverted, at 30°C for 4 days until colonies form. 15 individual colonies were then streaked onto fresh YCB Agar plates containing 5 mM acetamide and incubated at 30°C for 2 days.

DNA encoding alpha-lactalbumin and beta-lactoglobulin, two key whey proteins, was designed in-house and ordered for synthesis from IDT and was transfected into competent *K. lactis* cells from the New England Biolabs kit (Catalog #E1000S) according to the vendor-supplied protocol.

High-Throughput Transfectant Selection

From each YCB Agar plate, once the colonies had grown sufficiently, each of the 30 plates was tested for successful integration of the vector plasmid. This was followed by PCR analysis of each plate to test for special cells with multiple integrants of the vector. Once isolated, the highest producing individual culture was used for scale up. This process can be iterated with successively higher concentrations of selective pressure in order to force colonies to develop higher copy numbers of our engineered plasmid.

Five transfection events were performed and plated on 5 separate plates consisting of nitrogen-free yeast carbon base medium. (Any observed growth on these plates therefore implied successful uptake of the plasmid, if not uptake of the exogenous DNA itself). Of these 5 plates, 100% showed positive growth. 30 individual colonies from the 5 plates were chosen for scale-up, and each was grown in a separate YCB agar plate to create a homozygous culture plate to allow for easy characterization and management. After a 3 day growth period, a single colony from each plate was initially added to a 10 ml glass culture tube, containing 2ml YPGal media, to test for protein expression. After a growth period of two days, the cells were pelleted out and the supernatant was run on an SDS PAGE gel to check for protein expression. The strains which provided the best protein expression were scaled up to a 10 ml, 100 ml, 500 ml,

and ultimately 1L culture vessel. From each whey protein, two liters of culture were grown. Approximately one gram of protein was harvested from the total, suggesting a non-optimized yield/productivity of 0.5 g/L.

Scale-Up in 1L Shake Flask Culture

5 Cultures are scaled up and seeded in a 1L shake flask at split ratios of at least 1:10. Prior to seeding, inoculation flasks are grown for 24 hours in production media without acetamide supplementation. On the starting day of a fedbatch production run, the reactor is charged with 90% of the target starting volume and heated to the run temperature. For now, the temperature is set at 30°C in order to save on energy costs associated with heating the reactor. Additional parameters can be explored in the process optimization phase. When the reactor reaches 30°C, the inoculation flask is added to the reaction vessel dropwise using a peristaltic pump. The reactor is maintained using vendor supplied software at a target pH. Twice daily samples are taken of the reactor broth in order to quantify the amount of glucose and electrolyte usage by the cells, and as a doublecheck for the reactor's pH and dissolved gas measurements. After each measurement, bolus glucose is added to maintain a target glucose concentration 10% to start, although this may also be altered in process development. When cells reach maximum density, protein production is triggered by the addition of galactose, which triggers the promoter on our pKLAC2 plasmid. Galactose is supplemented until the end of the run. Optimum run length can be determined in process development as well, but is set as a 5-day fedbatch. After a full run, yeast cells are removed from the reactor and the proteins are purified as discussed below.

Casein Protein Purification

25 The following casein proteins α -s1casein, α -s2casein, and β -casein are inherently hydrophobic, which precipitate out when secreted from the yeast and come into contact with water. Purification from the reactor media involves collection of the protein from the surface of the media, followed by drying to isolate pure protein. Kappa-casein is inherently hydrophilic and purification of the κ -caseins involves the change in pH of the solution to 4.6, followed by centrifugation at 10,000 rcf. Combined casein cassette works 30 the same way as κ -casein.

Whey Protein Purification

Alpha-lactalbumin: The isoelectric point of alpha-lactalbumin is 4.2. When the pH of the bioreactor media solution is lowered to 4.2, the solubility of the protein is at its lowest. This knocks the protein out of solution and allows for collection by centrifugation. Beta-lactoglobulin: Similar to the purification of the alpha-lactalbumin, the pH of the solution is lowered to 5.2 the isoelectric point of beta-lactoglobulin. This neutralizes the charge of the protein and allows its collection by centrifugation at 14,000 ref.

Protein Purification

The 2L of culture media was spun at 3,000g in a floor centrifuge to pellet out the yeast cells. The pellet was discarded, and the supernatant was transferred into a new vessel & the pH of the solution was lowered to 4.2 for the alpha-lactalbumin and 5.2 for the beta-lactoglobulin (Figure 2A). This was followed by incubation of the supernatant at 35°C for 30 mins in a shaker flask, centrifugation at 14,000g in a floor centrifuge to pellet out the protein mixture (Figure 2B).

Protein Characterization

After separation of the protein by centrifugation, the solid pellet and the supernatant solution were run on a 14% SDA-PAGE gel to check for protein expression. A positive band was observed at 14 kDa and at 18 kDa (Figure 3), which correlates to the size of alpha-lactalbumin and beta-lactoglobulin of bovine origin, respectively. Further characterization is done to confirm equivalence in terms of primary sequence, glycosylation and phosphorylation.

Example 2

Triglyceride Synthesis

Milk fat triglycerides were made by transesterifying short-chain triglycerides into high oleic sunflower oil, the oil from a custom engineered variant of sunflowers which express the following ratios of fatty acid esters as described in Table 1:

Table 1:

Fatty Acids	Sunflower†	NuSun Mid-Oleic Sunflower‡	High-Oleic Sunflower‡
C6:0	ND	ND	ND
C8:0	ND	ND	ND
C10:0	ND	ND	ND
C12:0	ND-0.1	ND	ND
C14:0	ND-0.2	0.4-0.8	ND-0.1
C16:0	2.0-7.6	4.0-5.5	2.6-5.0
C16:1	ND-0.3	ND-0.05	ND-0.1
C17:0	ND-0.2	ND-0.05	ND-0.1
C17:1	ND-0.1	ND-0.06	ND-0.1
C18:0	1.0-6.5	2.1-5.0	2.9-6.2
C18:1	14-39.4	43.1-71.8	75-90.7
C18:2	48.3-74.0	18.7-45.3	2.1-17.0
C18:3	ND-0.3	ND-0.1	ND-0.3
C20:0	0.1-0.5	0.2-0.4	0.2-0.5
C20:1	ND-0.3	0.2-0.3	0.1-0.5
C20:2	ND	ND	ND
C22:0	0.3-1.5	0.6-1.1	0.5-1.6
C22:1	ND-0.3	ND	ND-0.3
C22:2	ND-0.3	ND-0.09	ND
C24:0	ND-0.5	0.3-0.4	ND-0.5
C24:1	ND	ND	ND

ND=not detectable (ND defined as <0.05%)

† From Codex Alimentarius (2001)

‡ From Table 3

www.sunflowernsa.com/uploads/resources/51/warner_.pdf

Short-chain triglyceride preparation

- 5 The short-chain fatty acids which are principally responsible for rich flavor in milk and cream are the molecules with even numbers of carbons between 4 and 10, and are mixed in the following ratios as described in Table 2:

Table 2:

Table 1. Fatty acid composition expressed as percent by weight of total fatty acids in Swedish dairy milk in 2001, given as weighted means with standard deviations (SD) and as the minimum and maximum weighted means. The estimation of the weighted mean values was based on the proportion of milk delivered to each dairy or dairy company at each sampling occasion (seven dairies at four sampling occasions during 2001). The lowest and highest values observed and *p*-values for geographical and seasonal variation are also given

Fatty acid	Weighted mean 2001	SD	Lowest value observed	Highest value observed	Seasonal variation
4:0	4.4	0.1	4.0	5.1	n.s.
6:0	2.4	0.1	2.1	2.9	n.s.
8:0	1.4	0.1	1.2	1.9	n.s.
10:0	2.7	0.2	2.4	3.5	*
12:0	3.3	0.2	3.0	4.1	**
14:0	10.9	0.5	10.0	12.1	***
15:0	0.9	0.0	0.8	1.1	n.s.
16:0	30.6	0.9	28.7	34.1	**
17:0	0.4	0.0	0.4	0.5	**
18:0	12.2	0.4	10.3	13.3	n.s.
20:0	0.2	0.0	0.2	0.2	n.s.
<i>Saturated fatty acids total</i>	<i>69.4</i>	<i>1.7</i>	<i>67.1</i>	<i>74.4</i>	<i>***</i>
10:1	0.3	0.0	0.2	0.4	n.s.
14:1	0.8	0.4	0.4	1.3	**
16:1	1.0	0.0	0.9	1.8	n.s.
17:1	0.1	0.0	<0.1	0.3	n.s.
18:1	22.8	1.0	19.7	24.7	***
<i>Mono-unsaturated fatty acids, cis, total</i>	<i>25.0</i>	<i>1.0</i>	<i>22.2</i>	<i>26.7</i>	<i>**</i>
18:2	1.6	0.1	1.4	1.8	n.s.
18:3	0.7	0.0	0.6	0.9	**
<i>Poly-unsaturated fatty acids, cis, total</i>	<i>2.3</i>	<i>0.1</i>	<i>2.0</i>	<i>2.5</i>	<i>n.s.</i>
16:1t	0.4	0.1	0.3	0.4	***
18:1t	2.1	0.7	2.0	3.3	***
18:2t	0.2	0.0	0.1	0.5	n.s.
<i>Trans fatty acids total</i>	<i>2.7</i>	<i>0.7</i>	<i>0.6</i>	<i>3.9</i>	<i>***</i>
CLA	0.4	0.1	0.3	0.5	***

n.s.: Not significant; **p* < 0.05; ***p* < 0.01; ****p* < 0.001.

Table 3:

Chain Length	Names	Mass Fraction in Mixture (%)
4	Butanoic / butyric acid	40
6	Hexanoic / caproic acid	26
8	Octanoic / caprylic acid	11
10	Decanoic / capric acid	22

The fractions in Table 3 are based upon the relative prevalence of these species in cow's milk, but can be altered during process development both in order to design a better tasting product and in order to design milks of other species, such as buffalo or goat. Short-chain fatty acids in the mass ratios shown above are combined with toluene, paratoluenesulfonic acid, and glycerol in a Dean-Stark water trap, commonly used for esterification reactions in order to remove water produced in the condensation reaction. The reaction is carried out in a fume hood for several hours, until the level of water entering the water trap is observed as unchanging for more than 30 minutes. The vessel is allowed to cool and the mixture is removed from the reaction flask. The mixture is washed twice with a 5% sodium carbonate solution and five times with plain water. Brine (a 10% solution of NaCl in water) is added periodically in order to disrupt an emulsion which forms in the separating funnel. The washed mixture of short-chain triglycerides, water, toluene, and impurities is dried in a rotary evaporator at 90°C and under a 54 mbar atmosphere for one hour, until it has proceeded well past excess in order to minimize the chance of food contamination.

Transesterification

The short-chain triglyceride mixture is combined with high-oleic sunflower oil at a volumetric ratio of 1:8. A mass of sodium methoxide equal to 1% of the oil mixture mass is added in order to catalyze the transesterification, and the reaction vessel is heated to 65°C, stirring continuously, under an inert Argon atmosphere, for six hours. A 5% acetic acid mixture is added to quench the reaction, then the oil is washed five times with deionized water and dried in a rotary evaporator for one hour at >90°C. The finished milk

fat is autoclaved to ensure sterility and is thence suitable for use in milk or cream as described above.

Example 3

5

Milk Formulation

One non-limiting milk composition formulation is described below.

Table 4:

Components	% (w/v) Range	Amount (g/L)
Casein proteins	1 – 10	10 – 100
Whey proteins	0 – 1	0 – 10
Plant-based milk fats	0 – 8	0 – 80 ml/L
Sugar	0 – 5	0 – 50
Ash	0.1 – 1	1 – 10
Calcium	0.1 – 0.5	1 – L
X (Functional additive)	0 - 1	0 – 10L

10

Following Table 4, milk formulation is achieved through the following procedure, per 1 liter of milk. 26 grams of casein, 3.5 grams of whey and 5 grams of ash are combined and mixed well. 40 mL of triglycerides are thawed & heated to 55°C. Protein mixture is poured slowly into triglycerides and vortexed at high speed for five minutes. In the meantime, 3.5 grams of whey and 24 grams of galactose are added to 850 mL

15 deionized water; mixture is heated to 37°C. Triglyceride/protein/ash mixture is moved into Waring commercial blender and blended at low speed. Whey/galactose/water mixture is poured slowly into blender; cap placed on blender. Mixture is blended at high speed for ten minutes. Deionized water is added to a final volume of 1000 mL. Milk can optionally be homogenized using existing methods. The above protocol can be altered for

20 cream or arbitrary milk formulations by altering the ratios of solids; however, our preliminary research suggests that the presence of ash in the protein mixture and the separation of a significant proportion of the whey can greatly affect the quality of the emulsion.

25

Example 4

Synthetic Milk Formulation

As a preliminary proof of concept, in order to determine whether the key components of milk could be recombined to form milk, dry food-grade purified casein and research grade whey was purchased. Irish cream was obtained from a local source and pure fat was isolated from it by centrifuging the cream at 14,000g. Finally, all minerals used were purchased from Sigma Aldrich.

Terms:

C-roux= roux made by mixing casein proteins & fat together while maintaining the temperature of the mixture at 37°C.

W-roux= roux made by mixing whey proteins & fat together while maintaining the temperature of the mixture at 37°C.

CW-roux= roux made by mixing casein & whey proteins together in a mixture first, adding fat and mixing at 37°C.

Table 5:

Experiment	Result
Casein + Fat + Water	A pale yellow liquid with bad taste, precipitation of protein, and bad mouthfeel (watery).
Casein + Water + Fat	A pale yellow liquid with bad taste, precipitation of protein, and bad mouthfeel (watery).
(Casein + Fat) to make a roux. roux + Water	A pale yellow liquid with average taste and bad mouthfeel (watery). Low protein precipitation was observed.

Hypothesized that the bad mouthfeel (e.g., wateriness) was due to the lack of whey protein.

Table 6:

Experiment	Result
------------	--------

Casein + Whey + Fat + Water	Pale yellow-white liquid with bad taste, precipitation of protein, and bad mouthfeel.
C-roux + Whey + Water	Pale yellow-white liquid with average taste, low precipitation of protein, and bad mouthfeel
W-roux + Casein + Water	Pale yellow-white liquid with average taste, low precipitation of protein, and bad mouthfeel.
CW-roux + Water	Pale yellow-white liquid with average taste and bad mouthfeel. Zero protein precipitation.

Hypothesized that bad mouth feel was because of bad casein micelle formation, that addition of Ca would allow the micelle to reform.

Table 7:

Experiment	Result
CW-roux + Water + Calcium phosphate (optimum amount of Ca was figured out by trial & error)	White liquid with normal mouth feel. Zero protein precipitation. Average taste

5

To improve taste, different sugars were added in different concentrations to the above mixture.

Table 8:

Sugar	2.4%	3.0%	3.6%	4.2%	4.8%
Glucose	Good	Too Sweet	Too Sweet	Too Sweet	Too Sweet
Galactose	Bland	Excellent	Average	Excellent	Too Sweet
Sucrose	Bad	Bad	Bad	Bad	Bad
Maltose	Bland	Excellent	Excellent	Too Sweet	Too Sweet

10

All additional ions found in cow milk was incorporated to recreate the ionic environment found in nature.

Reference: R. Rosmaninho, L.F. Melo / Journal of Food Engineering 73 (2006) 379–387

Table 9:

Reagent	Composition (mM)
KH_2PO_4	11.60
K_3 Citrate H_2O^a	3.7
Na_3 Citrate $2\text{H}_2\text{O}$	6.1
K_2SO_4	1.03
K_2CO_3	2.17
KCL	8.0
$\text{CaCL}_2 \cdot 2\text{H}_2\text{O}$	8.98

5 End result was a liquid which was bright white in color, likely because the ionic environment kept the solids present in milk from joining together and increased the overall refractive index of the solution. Taste was excellent, but it had an average mouthfeel (e.g., a certain amount of chalkiness was observed in the liquid). Exact mineral composition as described in Table 9 can provide excellent mouthfeel.

10 Milk Fat Synthesis

Synthetic milk fat was made by interesterifying short-chain fatty acids among the large-chain fatty acids present in high-oleic sunflower oil triglycerides. The four short-chains used were:

15 **40% C4:** Butyric acid. found in milk, especially goat, sheep and buffalo milk, butter, Parmesan cheese, and as a product of anaerobic fermentation (including in the colon and as body odor). It has an unpleasant smell and acrid taste, with a sweetish aftertaste (similar to ether). Butyric acid is present in, and is the main distinctive smell of, human vomit.

20 **26% C6:** Caproic acid. a colorless oily liquid with an odor that is fatty, cheesy, waxy, and like that of goats or other barnyard animals.

11% C8: Caprylic acid. It is an oily liquid that is minimally soluble in water with a slightly unpleasant rancid-like smell and taste.

22% C10: Capric acid. Not much said about the flavor, and with longer carbon chains you start to get less flavors. This is in coconut oil so it is not a milk fat flavor *per se* as much as the other ones.

Iterations include lauric acid (C12), as it is present at 2.9% of total fatty acid content in cow's milk (Beare-Rogers, J.; Dieffenbacher, A.; Holm, J.V. (2001). "Lexicon of lipid nutrition (IUPAC Technical Report)". *Pure and Applied Chemistry* 73 (4): 685–744. doi:10.1351/pac200173040685.)

The following procedure as described Yu et al., The modification an analysis of vegetable oil for cheese making. *J. Am. Oil Chem. Soc.*, 77:911 (2000) was followed in, at quarter of the amounts specified below:

A mixture of butyric, caproic, caprylic, and capric acids (Sigma Chemical Co., St. Louis, MO) at the same ratios found for a milk fat sample [see above] and totaling 7.26 mol, 21.42 g of p-toluenesulfonic acid (Sigma Chemical Co.), 2.305 mol of glycerol (Sigma Chemical Co.), and 458 mL of toluene (Fisher Scientific) was refluxed with a Dean-Stark water trap for 6 h. The reaction was considered complete when no more water dripped into the trap. The SCTG were washed once with 5% sodium carbonate solution and several times with water. Then, the SCTG were heated at 85°C in a rotary evaporator to remove water and toluene.

SCTG from both commercial and natural sources are interesterified with HOSO (Trisun 80, RBD; AC Humko, Memphis, TN) at a SCTG/HOSO ratio of 1:8.82 in order to produce a fat that has the same percentage of SCFA as that of milk fat. SCTG from the commercial source are also interesterified at a SCTG/HOSO ratio of 1:7.19 to produce a fat that has a level of SCFA equal to 120% of that in milk fat. Sodium methoxide (Aldrich Chemical Company, St. Louis, MO) is used as a catalyst at 0.5% of total oil weight. The reaction is carried out at 65°C under nitrogen with stirring for 6 h. Next, 5% acetic acid (Fisher Scientific) is added to neutralize the catalyst, and the oil is then washed several times with distilled water and dried on a rotary evaporator for 30 min at 90°C.

A pilot-scale continuous deodorizer similar to the one described by Smouse (Smouse, T.H., A Laboratory Continuous Deodorizer, inform 8:1176–1181 (1997).) is used to deodorize the interesterified oils. The oil flow rate is 600 mL/h, the column

temperature is 180°C, pressure at 0.5 Torr, and the steam rate 12.6 mL/h. Each batch of deodorized oil is tasted by to ensure the flavor. The deodorized oil is stored at 4°C until used for cheese making.

5 **Example 5**

Modulation of Fatty Acids

Sunflower oil triglycerides with three oleic acids are transesterified with four short chain fatty acids containing one butyric acid, one hexanoic acid, and one octanoic acid as part of the fat composition in a mixture of synthetic milk product. This array or combination of fat is expected to result in a synthetic milk fat providing its rich flavor as compared to natural dairy milk. The ability to control the composition of one or more triglycerides is likely to enhance or change flavor profiles of synthetic dairy products. Accordingly, a matrix of long-chain and short-chain can yield in flavor profiles including, but not limited to, multiple aromatic compounds associated with buttery, nutty, sweet, sour, fruity, floral, bitter, woody, earthy, beany, spicy, metallic, sweet, musty, oily and vinegary sensory impressions. Additionally, increase in texture such as creaminess, improvements in melting characteristics or tolerance and increase in stretching ability relative to a corresponding dairy product can be exhibited.

20 **Example 6. Recombinant Production of Milk Proteins**

Alpha-lactalbumin, β -lactoglobulin, α -S1-casein, α -S2-casein, β -casein, and κ -casein were produced in recombinant yeast strain (*Pichia pastoris*) strains. As the glycosylation enzymes in yeast are different than mammalian cells, the proteins produced by the yeast will either be non-glycosylated or have a non-mammalian glycosylation pattern. The produced proteins can be used as a component in any of the compositions described herein.

Plasmids

Plasmids were constructed for the expression of each protein. Each plasmid included the following components: an inducible promoter (e.g., AOX1 promoter) or a constitutive (GAP promoter or PGK promoter) promoter, for each protein being

expressed; a sequence encoding a signal peptide for each protein being expressed, derived either from the native bovine protein sequence or one from a yeast protein sequence (alpha mating factor or OST1); a sequence encoding the milk protein(s) to be expressed; a yeast transcription terminator sequence (e.g., AOX1, AOD, or CYC1) for each protein being expressed; a bacterial origin of replication from pUC19 to enable replication of the plasmid in *E. coli*; and a selectable marker cassette (e.g., kanR or zeocinR) to enable selection in bacteria and yeast with antibiotics.

The different plasmids used to produce the different proteins are listed in Table 10 below.

Table 10. Expression Plasmids (SEQ ID NO)

Plasmid name	Selectable marker	Promoter 1	Signal peptide 1	ORF 1	Terminator 1	Promoter 2	Signal peptide 2	ORF 2	Terminator 2
pJAG-nat-LAA	Amp (bacteria), G418 (yeast) (159) ¹	P_AOX1 (153)	SP_lactalbumin (156)	α -lactalbumin (157)	TT_AOX1 (158)				
pJAG-MFa-LAA	Ampicillin (bacteria), G418 (yeast) (159)	P_AOX1 (153)	SP_MF α (154)	α -lactalbumin (157)	TT_AOX1 (158)				
pJAG-OST-LAA	Ampicillin (bacteria), G418 (yeast) (159)	P_AOX1 (153)	SP_OST (155)	α -lactalbumin (157)	TT_AOX1 (158)				
pLH37	Zeocin (151)	P_AOX1 (129)	SP_MF α T (132)	β -lactoglobulin (143)	TT_AOX1 (149)				
pLH044	Zeocin (151)	P_GAP1 (130)	SP_MF α T (132)	β -lactoglobulin (143)	TT_AOX1 (149)				
pLH045	Zeocin (151)	P_PGK1 (131)	SP_MFaIp (132)	β -lactoglobulin (143)	TT_AOX1 (149)				

pLH4 6	Zeocin (151)	P_GA P1 (130)	SP_β_cas ein (135)	β-casein (144)	TT_CY C1 (150)	P_PG K1 (131)	SP_αS1_c asein (137)	αS1 - case in (14 7)	TT_AO X1 (149)
pLH4 7	Kanam ycin (bacteri a), G418 (yeast) (152)	P_GA P1 (130)	SP_α S2_cas ein (133)	αS2- casein (145)	TT_CY C1 (150)	P_PG K1 (131)	SP_κ_cas ein (138)	κ- case in (14 8)	TT_AO X1 (149)
pLH4 8	Zeocin (151)	P_GA P1 (130)	SP_OST (134)	β-casein (144)	TT_CY C1 (150)	P_PG K1 (131)	SP_OST (134)	αS1 - case in (14 7)	TT_AO X1 (149)
pLH4 9	Kanam ycin (bacteri a), G418 (yeast) (152)	P_GA P1 (130)	SP_OST (136)	αS2- casein (145)	TT_CY C1 (150)	P_PG K1 (131)	SP_OST (134)	κ- case in (14 8)	TT_AO X1 (149)
pLH5 0	Zeocin (151)	P_GA P1 (130)	SP_OST (136)	β-casein (144)	TT_CY C1 (150)	P_PG K1 (131)	SP_αS1_c asein (137)	αS1 - case in (14 7)	TT_AO X1 (149)
pLH5 1	Zeocin (151)	P_GA P1 (130)	SP_β_cas ein (135)	β-casein (144)	TT_CY C1 (150)	P_PG K1 (131)	SP_OST (134)	αS1 - case in (14 7)	TT_AO X1 (149)
pLH5 2	Kanam ycin (bacteri a), G418 (yeast) (152)	P_GA P1 (130)	SP_αS2_c asein (133)	αS2- casein K113E (146)	TT_CY C1 (150)	P_PG K1 (131)	SP_κ_cas ein (138)	κ- case in (14 8)	TT_AO X1 (149)
pLH5 3	Kanam ycin (bacteri a), G418 (yeast) (152)	P_GA P1 (130)	SP_OST (136)	αS2- casein K113E (146)	TT_CY C1 (150)	P_PG K1 (131)	SP_OST (134)	κ- case in (14 8)	TT_AO X1 (149)
pLH5 4	Kanam ycin (bacteri a), G418 (yeast) (152)	P_GA P1 (130)	SP_OST (136)	αS2- casein (145)	TT_CY C1 (150)	P_PG K1 (131)	SP_κ_cas ein (138)	κ- case in (14 8)	TT_AO X1 (149)

	a), G418 (yeast) (152)							(14 8)	
pLH5 5	Kanam ycin (bacteri a), G418 (yeast) (152)	P_GA P1 (130)	SP_αS2_c asein (133)	αS2- casein (145)	TT_CY C1 (150)	P_PG K1 (131)	SP_OST1 (134)	κ- case in (14 8)	TT_AO X1 (149)

¹SEQ ID NO: 159 (Synthetic)

5 ATGGGTAAGGAAAAGACTCACGTTTCCAGACCAAGATTGAACTCTAACATGGACGCTGACTTGTA
CGGTTACAAGTGGGCTAGAGACAACGTTGGTCAATCTGGTGCTACTATTTACAGATTGTACGGTA
AGCCAGACGCTCCAGAGTTGTTCTTGAAGCACGGTAAGGGTTCTGTTGCTAACGACGTTACTGAC
10 GAGATGGTTAGATTGAACTGGTTGACTGAGTTCATGCCATTGCCAATAAAGCACTTCATTAG
AACTCCAGACGACGCTTGGTTGTTGACTACTGCTATTTCCAGGTAAGACTGCTTTCCAAGTTTTGG
AGGAGTACCCAGACTCTGGTGAGAACATTGTTGACGCTTTGGCTGTTTTCTTGAGAAGATTGCAC
TCTATTCCAGTTTGTAAGTGTCCATTCAACTCTGACAGAGTTTTTCAGATTGGCTCAAGCTCAATC
15 CAGAAATGAACAACGGTTTTGGTTGACGCTTCTGACTTCGACGACGAGAGAAACGGTTGGCCAGTTG
AGCAAGTTTTGGAAGGAGATGCACAAGTTGTTGCCATTCTCTCCAGACTCTGTTGTTACTCACGGT
GACTTCTCTTTGGACAACCTTGATTTTCGACGAGGGTAAGTTGATTGTTGATTGACGTTGGTAG
AGTTGGTATTGCTGACAGATACCAAGACTTGGCTATTTTGTGGAAGTGTGGGTGAGTTCCTC
CATCTTTGCAAAAGAGATTGTTCCAAAAGTACGGTATTGACAACCCAGACATGAACAAGTTGCAA
TTCCACTTGATGTTGGACGAGTTCTTCTAA

These plasmids were then integrated into wildtype *P. pastoris* for expression. The production of the proteins was detected by SDS-PAGE, ELISA, and Western blot.

20 Alpha-Lactalbumin

Strain Construction

25 Three plasmids were created, placing the expression of bovine alpha-lactalbumin (bvLAA) under the control of the methanol-induced promoter P_{AOX1}, with either the native LAA signal peptide (pJAG-nat-LAA), the full length alpha mating factor signal peptide (pJAG-aMF-LAA), or the OST1 signal peptide (pJAG-OST-LAA).

Prior to transformation, 20 µg each plasmid was linearized by digestion with the restriction enzyme SacI. The digested plasmids were then concentrated by ethanol precipitation, and resuspended in 10 µl distilled water.

30 Competent *Pichia pastoris* cells were prepared as follows: A culture of *P. pastoris* was grown to log phase (OD₆₀₀ ~1.0) in YPD media (10 g/L yeast extract, 20

g/L peptone, 20 g/L dextrose). A 1.5 mL aliquot was harvested by centrifugation, then resuspended in 1 mL of a 1:1 mixture of YPD+20 mM HEPES (pH 8):1M lithium acetate. After adding 10 μ L 1 M dithiothreitol, the cells were incubated for 15 min at 30°C in a shaker at 300 rpm. The cells were pelleted by centrifugation and washed three times in 1 mL ice cold 1 M sorbitol. After the final wash, the cells were resuspended in 50 μ L 1 M sorbitol.

The cells were combined with the linearized plasmid DNA in a chilled 2 mm electroporation cuvette, and subjected to a 1.5 kV pulse (25 μ F, 200 Ω). The cells were transferred to a culture tube with 200 μ L cold 1:1 YPD:1 M sorbitol, and allowed to recover for 2 hours at 30°C (300 rpm). Finally, the cells were plated onto YPD agar plates containing zeocin and grown for two days at 30°C.

Protein Expression

Colonies were picked from the agar plates and grown in 750 μ L BMD1% (0.2M Potassium Phosphate buffer, 13.4 g/l Yeast Nitrogen Base, 0.4 mg/ml biotin, 1.1% glucose) at 30°C, 300 rpm. After 48 hours, 900 μ L of culture was used to inoculate 750 μ L BMM2 (0.2M Potassium Phosphate buffer, 13.4 g/l Yeast Nitrogen Base, 0.4 mg/ml Biotin, 1% methanol). After 24 hours, 150 μ L BMM10 (BMM10: 0.2M Potassium Phosphate buffer, 13.4 g/l Yeast Nitrogen Base, 0.4 mg/ml Biotin, 5% methanol), and samples were harvested for analysis after one additional day.

Analysis

Protein expression was analyzed in samples of culture that were centrifuged to remove the cell mass. The clarified supernatant was then evaluated by SDS-PAGE, ELISA, and western blot.

To visualize total protein via SDS-PAGE, cell-free supernatant was treated with SDS-PAGE sample buffer, boiled, and run on a 10% polyacrylamide gel. The gel was stained with SYPRO Ruby stain (Life Technologies). The resulting gel shows that secretion of α -lactalbumin occurs using the OST1 or the native lactalbumin signal peptide (Figure 4).

To measure protein titers via ELISA, 25 μ L of each sample were placed in a half-area 96 well microtiter plate, and allowed to bind overnight at 4°C. After removing the samples, the binding surface was blocked by filling each well with 1% (w/v) bovine serum albumin (BSA) dissolved in Tris Buffered Saline (50 mM Tris, pH 7.6, 150 mM NaCl) and incubating for 1 hour at room temperature. The samples were then incubated for 1.5 hr in primary antibody that was diluted in 1% BSA/TBS + 0.1% (v/v) Tween-20. Following three washes in TBS + Tween, the samples were incubated with secondary antibody conjugated with horseradish peroxidase (HRP) for an additional hour. After three final washes in TBS + Tween, a chromogenic substrate (TMB Single Solution, Life Technologies) was added, and the absorbance at 650 nm was measured. The resulting data show that α -lactalbumin was secreted using the native α -lactalbumin signal peptide or the OST1 signal peptide (Figure 5).

To analyze samples via Western blot, one volume of sample was combined with an equal volume of SDS-PAGE sample buffer and run on a 10% polyacrylamide gel. The proteins were transferred to a nitrocellulose membrane, which was blocked by treating with 1% BSA/TBS for 1 hr. After incubating for 1.5 hr with primary antibody diluted in 1% BSA/TBS+Tween, the blot was washed three times in TBS+Tween. The blot was then incubated with secondary antibody conjugated with horseradish peroxidase (HRP) for an additional hour. After three final washes in TBS + Tween, a chromogenic substrate (1-Step Ultra TMB Blotting Solution, Thermo Fisher) was added. After staining was completed, the blot was washed in distilled water.

Beta-Lactoglobulin

Strain Constructions

Three plasmids were assembled, placing the expression of bovine beta-lactoglobulin (bvLGB) under the control of either a methanol-induced promoter (P_{AOX1} in pLH37) or one of two constitutive promoters (P_{GAP} in pLH44, or P_{PGK} in pLH45).

Prior to transformation, 20 μ g pLH37 was linearized by digestion with the restriction enzyme SacI. The same amounts of pLH44 and pLH45 were linearized with

the enzyme ApaLI. The digested plasmids were then concentrated by ethanol precipitation, and resuspended in 10 μ l distilled water.

Competent *Pichia pastoris* cells were prepared as follows: A culture of *P. pastoris* was grown to log phase (OD600 ~1.0) in YPD media (10 g/L yeast extract, 20 g/L peptone, 20 g/L dextrose). A 1.5 mL aliquot was harvested by centrifugation, then resuspended in 1 mL of a 1:1 mixture of YPD+20 mM HEPES (pH 8):1M lithium acetate. After adding 10 μ L 1 M dithiothreitol, the cells were incubated for 15 min at 30°C in a shaker at 300 rpm. The cells were pelleted by centrifugation and washed three times in 1 mL ice cold 1 M sorbitol. After the final wash, the cells were resuspended in 50 μ L 1 M sorbitol.

The cells were combined with the linearized plasmid DNA in a chilled 2 mm electroporation cuvette, and subjected to a 1.5 kV pulse (25 μ F, 200 Ω). The cells were transferred to a culture tube with 200 μ L cold 1:1 YPD:1 M sorbitol, and allowed to recover for 2 hours at 30°C (300 rpm). Finally, the cells were plated onto YPD agar plates containing zeocin and grown for two days at 30°C.

Protein Expression

To evaluate expression in clones transformed with the plasmid containing a methanol-inducible promoter (pLH37), individual clones were grown in 750 μ L BMD1% (0.2M Potassium Phosphate buffer, 13.4 g/l Yeast Nitrogen Base, 0.4 mg/ml biotin, 1.1% glucose) at 30°C, 300 rpm. After 48 hours, 900 μ L of culture was used to inoculate 750 μ L BMM2 (0.2M Potassium Phosphate buffer, 13.4 g/l Yeast Nitrogen Base, 0.4 mg/ml Biotin, 1% methanol). After 24 hours, 150 μ L BMM10 (BMM10: 0.2M Potassium Phosphate buffer, 13.4 g/l Yeast Nitrogen Base, 0.4 mg/ml Biotin, 5% methanol), and samples were harvested for analysis after one additional day.

To evaluate expression in clones transformed with a plasmid supporting constitutive expression (pLH44 or pLH45), individual clones were grown overnight in PG media (20 g/L peptone, 2% glycerol) at 30°C with shaking at 300 rpm. The cultures were diluted 1:10 in minimal sulfate media:

Glucose 20 g/L
Calcium Chloride (CaCl ₂) 1 g/L

Sodium phosphate (Na ₂ PO ₄) 24 g/L
Potassium sulfate (K ₂ SO ₄) 18.2 g/L
Magnesium sulfate (MgSO ₄ -7H ₂ O) 14.9 g/L
Ammonium sulfate (NH ₄) ₂ SO ₄ 9 g/L
EDTA (Ethylenediaminetetraacetic acid) 65.25 mg/L
FeSO ₄ -7H ₂ O (Iron Sulfate heptahydrate) 12.18 g/L
ZnSO ₄ -7H ₂ O (Zinc sulfate heptahydrate) 25.0125 g/L
CaCl ₂ -2H ₂ O (Calcium chloride dihydrate) 12.615 g/L
CuSO ₄ -5H ₂ O (Copper sulfate pentahydrate) 2.175 g/L
NaMoO ₄ -2H ₂ O (Sodium molybdate dihydrate) 2.088 g/L
CoCl ₂ -6H ₂ O (Cobalt chloride hexahydrate) 2.0445 g/L
MnCl ₂ -4H ₂ O (Manganese chloride tetrahydrate) 1.392 g/L
Biotin 0.2175 g/L

After 48 hours, samples were harvested for analysis.

Analysis

5 Protein expression was analyzed in samples of culture that were centrifuged to remove the cell mass. The clarified supernatant was then evaluated by ELISA and Western blot.

To measure protein titers via ELISA, 25 μ L of each sample were placed in a half-area 96 well microtiter plate, and allowed to bind overnight at 4°C. After removing the samples, the binding surface was blocked by filling each well with 1% (w/v) bovine serum albumin (BSA) dissolved in Tris Buffered Saline (50 mM Tris, pH 7.6, 150 mM NaCl) and incubating for 1 hour at room temperature. The samples were then incubated for 1.5 hr in primary antibody that was diluted in 1% BSA/TBS + 0.1% (v/v) Tween-20. Following three washes in TBS + Tween, the samples were incubated with secondary antibody conjugated with horseradish peroxidase (HRP) for an additional hour. After three final washes in TBS + Tween, a chromogenic substrate (TMB Single Solution, Life Technologies) was added, and the absorbance at 650 nm was measured. The resulting data show the secretion of β -lactoglobulin (Figure 6).

To analyze samples via western blot, one volume of sample was combined with an equal volume of SDS-PAGE sample buffer and run on a 10% polyacrylamide gel. The proteins were transferred to a nitrocellulose membrane, which was blocked by treating with 1% BSA/TBS for 1 hr. After incubating for 1.5 hr with primary antibody

diluted in 1% BSA/TBS+Tween, the blot was washed three times in TBS+Tween. The blot was then incubated with secondary antibody conjugated with horseradish peroxidase (HRP) for an additional hour. After three final washes in TBS + Tween, a chromogenic substrate (1-Step Ultra TMB Blotting Solution, Thermo Fisher) was added. After staining was completed, the blot was washed in distilled water. The resulting Western blot shows that β -lactoglobulin was secreted from the recombinant yeast (Figure 7).

Bovine Caseins

Dual expression plasmids were built, to support expression of α -S1-casein with β -casein in one plasmid, and α -S2-casein with kappa-casein in another plasmid. These pairings were chosen because the molar ratio of α -S1: α -S2: β : κ in fluid milk is approximately 5.5 : 1.5 : 4.0 : 1.5; it is therefore desirable to have a similar number of copies of α -S1-casein and beta-casein, and a similar number of copies of α -S2-casein and kappa-casein.

Beta-casein and α -S2-casein were placed under the control of the constitutive PGAP promoter in their respective plasmids, while α -S1-casein and κ -casein were placed under the control of the constitutive PPGK promoter.

In order to direct the proteins into the secretory pathway, the proteins were expressed with either their native signal peptide (pLH46 and pLH47), or the OST1 signal peptide (pLH48 and pLH49). In addition, plasmids were made in which one protein was expressed with its native signal peptide, and the other protein with the OST1 signal peptide:

pLH0050 OST1-beta, native- α -S1

pLH0051 native- β , OST1- α -S1

pLH0054 OST1- α -S2, native- κ

pLH0055 native- α -S2, OST1- κ

To generate strains expressing all four casein proteins, yeast cells were first transformed with the plasmid encoding beta-casein and α -S1-casein. Prior to transformation, 20 μ g of each plasmid was linearized with the enzyme ApaLI. The

digested plasmids were then concentrated by ethanol precipitation, and resuspended in 10 μ l distilled water.

Competent *Pichia pastoris* cells were prepared as follows: A culture of *P. pastoris* was grown to log phase (OD₆₀₀ ~1.0) in YPD media (10 g/L yeast extract, 20 g/L peptone, 20 g/L dextrose). A 1.5 mL aliquot was harvested by centrifugation, then resuspended in 1 mL of a 1:1 mixture of YPD+20 mM HEPES (pH 8):1M lithium acetate. After adding 10 μ L 1 M dithiothreitol, the cells were incubated for 15 min at 30°C in a shaker at 300 rpm. The cells were pelleted by centrifugation and washed three times in 1 mL ice cold 1 M sorbitol. After the final wash, the cells were resuspended in 50 μ L 1 M sorbitol.

The cells were combined with the linearized plasmid DNA in a chilled 2 mm electroporation cuvette, and subjected to a 1.5 kV pulse (25 μ F, 200 Ω). The cells were transferred to a culture tube with 200 μ L cold 1:1 YPD:1 M sorbitol, and allowed to recover for 2 hours at 30°C (300 rpm). Finally, the cells were plated onto PG agar (20 g/L peptone, 2% (v/v) glycerol, 2% agar) plates containing zeocin and grown for two days at 30°C.

Six clones from the beta+alphaS1 plates were then grown in culture, and made competent for DNA uptake using the procedure described above. They were then transformed with the linearized alphaS2+kappa plasmids, and grown for two days at 30°C on PG plates containing G418.

Expression

To evaluate the production of bovine casein proteins, five clones expressing casein and a wildtype yeast negative control were grown overnight in PG media (20 g/L peptone, 2% glycerol) at 30°C with shaking at 300 rpm. All five of the casein-expressing clones expressed alphaS2- and κ -casein with the respective native casein signal peptides. Clones sLH115, 116, 117, and 118 expressed β -casein and α -S1-casein with the respective native signal peptides; clone sLH122 expressed beta-casein and α -S1-casein with the OST1 signal peptide. The cultures were diluted 1:10 in minimal sulfate media:

Glucose 20 g/L
Calcium Chloride (CaCl ₂) 1 g/L

Sodium phosphate (Na ₂ PO ₄) 24 g/L
Potassium sulfate (K ₂ SO ₄) 18.2 g/L
Magnesium sulfate (MgSO ₄ -7H ₂ O) 14.9 g/L
Ammonium sulfate (NH ₄) ₂ SO ₄ 9 g/L
EDTA (Ethylenediaminetetraacetic acid) 65.25 mg/L
FeSO ₄ -7H ₂ O (Iron Sulfate heptahydrate) 12.18 g/L
ZnSO ₄ -7H ₂ O (Zinc sulfate heptahydrate) 25.0125 g/L
CaCl ₂ -2H ₂ O (Calcium chloride dihydrate) 12.615 g/L
CuSO ₄ -5H ₂ O (Copper sulfate pentahydrate) 2.175 g/L
NaMoO ₄ -2H ₂ O (Sodium molybdate dihydrate) 2.088 g/L
CoCl ₂ -6H ₂ O (Cobalt chloride hexahydrate) 2.0445 g/L
MnCl ₂ -4H ₂ O (Manganese chloride tetrahydrate) 1.392 g/L
Biotin 0.2175 g/L

After 48 hours, samples were harvested for analysis.

Analysis

- 5 Protein expression was analyzed in samples of culture that were centrifuged to remove the cell mass. The clarified supernatant was then evaluated by ELISA and western blot.

To measure protein titers via ELISA, 25 μ L of each sample were placed in a half-area 96 well microtiter plate, and allowed to bind overnight at 4°C. After removing the samples, the binding surface was blocked by filling each well with 1% (w/v) bovine serum albumin (BSA) dissolved in Tris Buffered Saline (50 mM Tris, pH 7.6, 150 mM NaCl) and incubating for 1 hour at room temperature. The samples were then incubated for 1.5 hr in primary antibody that was diluted in 1% BSA/TBS + 0.1% (v/v) Tween-20. Following three washes in TBS + Tween, the samples were incubated with secondary antibody conjugated with horseradish peroxidase (HRP) for an additional hour. After three final washes in TBS + Tween, a chromogenic substrate (TMB Single Solution, Life Technologies) was added, and the absorbance at 650 nm was measured. The ELISA data show that the different yeast strains can secrete α -S1 casein and β -casein into the culture medium (Figure 8).

- 20 To analyze samples via western blot, one volume of sample was combined with an equal volume of SDS-PAGE sample buffer and run on a 10% polyacrylamide gel.

The proteins were transferred to a nitrocellulose membrane, which was blocked by treating with 1% BSA/TBS for 1 hr. After incubating for 1.5 hr with primary antibody diluted in 1% BSA/TBS+Tween, the blot was washed three times in TBS+Tween. The blot was then incubated with secondary antibody conjugated with horseradish peroxidase (HRP) for an additional hour. After three final washes in TBS + Tween, a chromogenic substrate (1-Step Ultra TMB Blotting Solution, Thermo Fisher) was added. After staining was completed, the blot was washed in distilled water.

The data in this Example show that the different expression vectors described herein can be used to generate transgenic yeast strains that secrete the different milk proteins.

Example 7. Method of Making a Composition

An exemplary composition described herein was generated using the specific method described below. A schematic diagram of this method is shown in Figure 9.

To prepare the milk product, laboratory equipment such as mixers, stirring plates, and sonicators are employed. For large scale production, standard fluid milk processing equipment should be used.

As Figure 9 shows, there are three main components to this method of making a composition. These steps include:

- A. Preparation of the protein solution
- B. Preparation of the oil mixture
- C. Reconstitution of the milk solids

In step A, powdered micellar casein protein and whey protein are combined and blended (step 1) and subsequently mixed with deionized (DI) water (step 2) to obtain the protein solution 1. Typically, this contains 2.8% powdered micellar casein, 0.7% powdered whey protein, and 85.5% water in this solution. The mixing vessel is covered to prevent evaporation of water. This mixing is performed by mixers, stirring plates, or a sonicator in a sufficient period of time (approximately 30 minutes). This mixing time ensures all

proteins are dispersed in the water. The mixing speed has been optimized as medium which provides enough force to disperse the proteins and avoids the entrapment of air in the solution. The water content can be adjusted according to the usage of other ingredients.

5 In step 3, separate solutions of CaCl_2 , KH_2PO_4 , and Na_3 citrate in water are the mineral sources utilized to prepare similar mineral profile as native bovine milk. In a typical instance, CaCl_2 solution concentration is 0.1 g/mL, KH_2PO_4 is 0.27 g/mL, and Na_3 citrate solution is 0.21 g/ml Na_3 citrate. The water used to prepare KH_2PO_4 with Na_3 citrate solution is usually warm to make sure the complete dissolution of KH_2PO_4 .
10 During the mixing of protein solution 1, 0.015% CaCl_2 is added slowly (step 4). The volume of CaCl_2 solution used is adjusted according to the weight percent of CaCl_2 needed. The mixing continues for approximately 30 minutes to allow the complete interaction between proteins and Ca^{2+} ions. Subsequently, 0.27% KH_2PO_4 and 0.21% Na_3 citrate are divided to 5 portions and each portion is added slowly into the mixing
15 solution at an interval time of 5 to 10 minutes (step 5). 0.085% CaCl_2 is divided to 4 portions and each portion is added slowly into the mixing solution at an interval time of 5-10 minutes (step 6). The mixing continues for at least 30 minutes, preferably 1-2 hours, to obtain the protein solution 2.

In the process B, low speed mixing is sufficient to achieve the homogeneous
20 mixing of different oil ingredients. The percent of each component used below for preparing the oil mixture 1 is based on the total oil mixture 1 weight. Initially, 65% sunflower oil, 29% coconut oil, and 2% tributyrin are mixed together form the oil base (step 7). The sunflower oil and coconut oil is deodorized to prevent an unwanted aroma. The combination of sunflower oil, coconut oil, and tributyrin can mimic a similar fatty
25 acid profile as the native milk. The oil base ingredient and its content can be adjusted according to different needs (different types of products). The aroma mixture is prepared by mixing different the aroma components in the sunflower oil (step 8). The compounds used to mimic the aroma contain, but are not limited to ethyl butyrate, δ -decalactone, 2-furyl methyl ketone, 2,3-pentanedione, γ -undecalactone, δ -undecalactone, acetoin,
30 furfuryl alcohol, furfural, 2-methylfurfural, and 2-methylpyrazine. Their contents can be adjusted by different applications and preference. 2.5% mono- and di-glycerides, 0.6%

free fatty acids, 0.5% phospholipids, and 0.4% aroma mixture are added to prepare the oil mixture 1 with mixing (step 9). In a typical instance, free fatty acids contain 0.15% butyric acid and 0.45% hexanoic acid. Soy lecithin is used as the phospholipid source. Soy lecithin is readily available and is inexpensive. A β -carotene solution is prepared in sunflower oil at a concentration of 0.5 mg/g (step 10). 4% of oil mixture 1 and 0.06% the β -carotene solution are mixed together to obtain the oil mixture 2 (step 11). The usage of β -carotene is adjusted to achieve different color levels of the milk. The usage of oil mixture 1 can also be adjusted according to different milk product applications.

In the process C, oil mixture 2 is added slowly to protein solution 2 and mixed thoroughly to prepare product mixture 1 (step 12). The mixing can be performed by mixers or sonicators. In a typical instance, oil mixture 2 and protein solution 2 are mixed under medium to high speed to ensure sure the oil is uniformly dispersed in the aqueous solution. Subsequently, sonication is applied to break down the oil globules into smaller size, which leads to an increase of their stability in the solution. It is necessary to prevent the entrapment of air bubbles in the solution during mixing. A mixing time of least 20 minutes is utilized to stir the oil mixture 2 into the aqueous solution and allow the thorough dispersion. A 4% maltose solution is added into product mixture 1 and was mixed continuously for an additional 30 minutes to yield product mixture 2 (step 13). The sweetness can be adjusted by the sugar content according to different applications. The source of the sugar can also be adjusted according to requests. Extra DI water may be required to make up the final total weight to 100%.

No intensive homogenization, pasteurization, and sterilization is included in this process. However, it will be necessary to apply these steps to prepare the product mixture in the process C for a scale-up production.

Equipment Used

Mixer: IKA-Labortechnik RW16 Basic, speed level (4-6)

Tip sonicator: Qsonica Model CL-188, Amplitude 70%

Water bath sonicator: Bransonic Model 1510R-MT

Example 8. Example Formulations

5 Example formulations compositions that have a similar taste and texture profile as whole milk, cream, high protein milk, fat-free milk, and sugar-free milk are provided in Tables 11-15 below.

10 As can be appreciated in the art, the compositions listed in Tables 11-15 are made by making the necessary modifications to the process described in Example 7.

Table 11. Composition like Whole Milk

Total Sample Weight 100 g

Protein Component 3 g	Wt%	Amount in Section	Weight Percent in 100 g Sample
Micellar Casein	80%	2.4 g	2.40%
Whey Protein	20%	0.6 g	0.60%
Fat 3.9 g			
Sunflower Oil	65%	2.54 g	2.54%
Coconut Oil	29%	1.13 g	1.13%
Tributylin	2%	0.08 g	0.08%
Mono and Di Glycerides	2.50%	0.098 g	0.098%
Free fatty acids (butyric and hexanoic acid)	0.60%	0.023 g	0.023%
Phospholipids	0.50%	0.020 g	0.02%
Aroma Compounds 0.4 %	0.40%	0.016 g	0.016%
Minerals 0.54 g			
Calcium		0.1005g	0.1005%
Phosphorus		0.09 g	0.090%
Potassium		0.078 g	0.078%
Sodium		0.0545 g	0.0545%
Citrate		0.1493 g	0.1493%
Chloride		0.064 g	0.064%
Sugar 4 g			
Maltose		4 g	4%
Water		88.56 g	88.56%
Aroma Compounds List			
δ-Decalactone			
Ethyl butyrate			
2-furyl methyl ketone			
2,3-pentanedione			
γ-Undecalactone			
δ-Undecalactone			

Table 12. Composition like Cream**Total Sample Weight 100 g**

Protein Component 3 g	Wt%	Amount in Section	Weight Percent in 100 g Sample
Micellular Casein	80%	2.4 g	2.40%
Whey Protein	20%	0.6 g	0.60%
Fat 40 g			
Sunflower Oil	65%	26 g	26.0%
Coconut Oil	29%	11.6 g	11.6%
Tributyrin	2%	0.8 g	0.8%
Mono and Di Glycerides	2.50%	1 g	1.0%
Free fatty acids (butyric and hexanoic acid)	0.60%	0.24 g	0.24%
Phospholipids	0.50%	0.2 g	0.2%
Aroma Compounds 0.4 %	0.40%	0.16 g	0.16%
Minerals 0.54 g			
Calcium		0.1005g	0.1005%
Phosphorus		0.09 g	0.090%
Potassium		0.078 g	0.078%
Sodium		0.0545 g	0.0545%
Citrate		0.1493 g	0.1493%
Chloride		0.064 g	0.064%
Sugar 4 g			
Maltose		4 g	4%
Water		52.46 g	52.46%
Aroma Compounds List			
δ -Decalactone			
Ethyl butyrate			
2-furyl methyl ketone			
2,3-pentanedione			
γ -Undecalactone			
δ -Undecalactone			

Table 13. Composition like Protein Rich Milk**Total Sample Weight 100 g**

Protein Component 6 g	Wt%	Amount in Section	Weight Percent in 100 g Sample
Micellular Casein	80%	4.8 g	4.80%
Whey Protein	20%	1.2 g	1.20%
Fat 3.9 g			
Sunflower Oil	65%	2.54 g	2.54%
Coconut Oil	29%	1.13 g	1.13%
Tributylin	2%	0.08 g	0.08%
Mono and Di Glycerides	2.50%	0.098 g	0.098%
Free fatty acids (butyric and hexanoic acid)	0.60%	0.023 g	0.023%
Phospholipids	0.50%	0.020 g	0.02%
Aroma Compounds 0.4 %	0.40%	0.016 g	0.016%
Minerals 0.54 g			
Calcium		0.1005g	0.1005%
Phosphorus		0.09 g	0.090%
Potassium		0.078 g	0.078%
Sodium		0.0545 g	0.0545%
Citrate		0.1493 g	0.1493%
Chloride		0.064 g	0.064%
Sugar 4 g			
Maltose		4 g	4%
Water		85.56 g	85.56%
Aroma Compounds List			
δ-Decalactone			
Ethyl butyrate			
2-furyl methyl ketone			
2,3-pentanedione			
γ-Undecalactone			
δ-Undecalactone			

Table 14. Composition like Fat-Free Milk

Total Sample Weight 100 g

Protein Component 3 g	Wt%	Amount in Section	Weight Percent in 100 g Sample
Micellular Casein	80%	2.4 g	2.40%
Whey Protein	20%	0.6 g	0.60%
Minerals 0.54 g			
Calcium		0.1005g	0.1005%
Phosphorus		0.09 g	0.090%
Potassium		0.078 g	0.078%
Sodium		0.0545 g	0.0545%
Citrate		0.1493 g	0.1493%
Chloride		0.064 g	0.064%
Sugar 4 g			
Maltose		4 g	4%
Water		92.46 g	92.46%
Aroma Compounds List			
δ -Decalactone			
Ethyl butyrate			
2-furyl methyl ketone			
2,3-pentanedione			
γ -Undecalactone			
δ -Undecalactone			

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Table 15. Composition like Sugar Free Milk**Total Sample Weight 100 g**

Protein Component 3 g	Wt%	Amount in Section	Weight Percent in 100 g Sample
Micellular Casein	80%	2.4 g	2.40%
Whey Protein	20%	0.6 g	0.60%

Fat 3.9 g

Sunflower Oil	65%	2.54 g	2.54%
Coconut Oil	29%	1.13 g	1.13%
Tributyrin	2%	0.08 g	0.08%
Mono and Di Glycerides	2.50%	0.098 g	0.098%
Free fatty acids (butyric and hexanoic acid)	0.60%	0.023 g	0.023%
Phospholipids	0.50%	0.020 g	0.02%
Aroma Compounds 0.4 %	0.40%	0.016 g	0.016%

Minerals 0.54 g

Calcium		0.1005g	0.1005%
Phosphorus		0.09 g	0.090%
Potassium		0.078 g	0.078%
Sodium		0.0545 g	0.0545%
Citrate		0.1493 g	0.1493%
Chloride		0.064 g	0.064%

Sugar 4 g

Stevia		4 g	4%
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Water		88.56 g	88.56%
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Aroma Compounds List

δ -Decalactone
 Ethyl butyrate
 2-furyl methyl ketone
 2,3-pentanedione
 γ -Undecalactone
 δ -Undecalactone

Example 9. Exemplary Composition

An exemplary composition made by the presently described methods is shown in Figure 10. The composition in Figure 10 has a similar look (color), viscosity, foaming property, flavor, and nutritional value as a mammal-produced milk. The composition
5 shown in Figure 10 comprises mammal-derived proteins.

CLAIMS

1. A food composition, other than a cottage cheese or a hard cheese, that is suitable as a dairy substitute, said food composition comprising:

(i) a recombinant β -lactoglobulin protein and a recombinant α -lactalbumin protein, wherein ~~one or~~ both of the recombinant β -lactoglobulin protein and the recombinant α -lactalbumin protein comprises a sequence that is at least 90% identical to the bovine protein amino acid sequence and has been produced by a fungal cell;

(ii) one or more sweetening agents;

(iii) ash; and

(iv) optionally, one or more lipids,

wherein:

the food composition has one or more characteristics of a dairy food product selected from the group consisting of: taste, aroma, appearance, handling, mouthfeel, density, structure, texture, elasticity, springiness, coagulation, binding, leavening, aeration, foaming, creaminess, and emulsification; and the food composition does not comprise any other milk proteins than those in (i).

~~2. The food composition of claim 1, wherein:~~

~~the recombinant β -lactoglobulin protein comprises a sequence that is at least 90% identical to the bovine protein amino acid sequence and has been produced by a fungal cell; and~~

~~the recombinant α -lactalbumin protein comprises a sequence that is at least 90% identical to the bovine protein amino acid sequence and has been produced by a fungal cell.~~

~~3. The food composition of claim 1 or 2, wherein the composition comprises:~~

~~a final concentration of α -lactalbumin protein of about 0.4 weight % to about 2.5 weight %; and~~

~~a final concentration of β -lactoglobulin protein of about 2.5 weight % to about 4.5 weight %.~~

~~4. The food composition of claim 1, wherein the fungal cell is selected from the~~

~~group consisting of: a strain of *Aspergillus nidulans*, a strain of *Aspergillus niger*, a strain of *Aspergillus oryzae*, a strain of *Candida albicans*, a strain of *Trichoderma reesei*, a strain of~~

Chrysosporium lucknowense, a strain of *Fusarium gramineum*, a strain of *Fusarium venenatum*, a strain of *Physcomitrella patens*, a strain of *Neurospora crassa*, a strain of *Pichia pastoris*, a strain of *Pichia finlandica*, a strain of *Pichia trehalophila*, a strain of *Pichia koclamae*, a strain of *Pichia membranaefaciens*, a strain of *Pichia minuta* (*Ogataea minuta*, *Pichia lindneri*), a strain of *Pichia opuntiae*, a strain of *Pichia thermotolerans*, a strain of *Pichia salictaria*, a strain of *Pichia guercuum*, a strain of *Pichia pijperi*, a strain of *Pichia stiptis*, a strain of *Pichia methanolica*, and a strain of *Hansenula polymorpha*.

~~54.~~ The food composition of claim 1, wherein one or both of the recombinant β -lactoglobulin protein and the recombinant α -lactalbumin protein has been secreted by a fungal cell.

~~65.~~ The food composition of claim 1, wherein the food composition does not include an animal-derived compound.

~~76.~~ The food composition of claim 1, wherein the food composition does not include any compound isolated from a milk produced by a mammal.

~~87.~~ The food composition of claim 1, wherein the food composition does not include at least one compound otherwise present in a mammal-produced milk.

~~9.~~ The food composition of claim 1, wherein the food composition comprises a plurality of micelles.

~~10.~~ The food composition of claim 8, wherein the plurality of micelles comprises one or both of the recombinant β -lactoglobulin protein and the recombinant α -lactalbumin protein.

~~118.~~ The food composition of claim 1, wherein the food composition comprises one or more lipids selected from the group consisting of: plant-derived oils, plant-derived monoglycerides, plant-derived diglycerides, plant-derived triglycerides, plant-derived free fatty acids, and plant-derived phospholipids.

[129](#). The food composition of claim [118](#), wherein the total concentration of one or more lipids is up to about 45 weight %.

[1310](#). The food composition of claim 1, wherein the one or more sweetening agents are saccharides selected from the group consisting of: glucose, mannose, maltose, fructose, galactose, lactose, sucrose, monatin, and tagatose.

[1411](#). The food composition of claim 1, wherein the one or more sweetening agents are artificial sweeteners selected from the group consisting of: stevia, aspartame, cyclamate, saccharin, sucralose, mogrosides, brazzein, curculin, erythritol, glycyrrhizin, inulin, isomalt, ~~lactitol~~[lactitol](#), mabinlin, ~~malititol~~[maltitol](#), mannitol, miraculin, monatin, monelin, osladin, pentadin, sorbitol, thaumatin, xylitol, acesulfame potassium, advantame, alitame, aspartame-acesulfame, sodium cyclamate, dulcin, glucin, neohesperidin dihydrochalcone, neotame, and P-4000.

[1512](#). The food composition of claim 1, wherein the ash comprises one or more of: calcium, phosphorous, phosphate, potassium, sodium, citrate, sulfate, carbonate, chloride, magnesium, iron, copper, zinc, manganese, selenium, iodine, retinol, carotene, vitamins, vitamin D, vitamin E, vitamin B12, thiamin, and riboflavin, or a salt(s) thereof.

[1613](#). The food composition of claim 1, wherein the ash has a final concentration in the food composition of about 5% w/w to about 7% w/w.

[1714](#). The food composition of claim 1, wherein the ash comprises one or more of: CaCl₂ at a final concentration of about 0.005% w/w to about 0.02% w/w; KH₂PO₄ at a final concentration of about 0.02% w/w to about 0.04% w/w; or Na₃citrate at a final concentration of about 0.01% w/w to about 0.03% w/w.

[1815](#). The food composition of claim 1, wherein the food composition is a dairy substitute selected from the group consisting of: a yogurt, a [whey](#) cheese, a milk, a butter, a cream, an infant formula, an ice cream, a frozen custard, ~~a cottage cheese~~, a cream cheese, a crème fraiche, and a curd.

[1916](#). The food composition of claim 1, wherein the food composition is a powder

composition.

~~20~~17. The food composition of claim ~~18-15~~, wherein the food composition is a yogurt.

~~21~~18. The food composition of claim ~~18~~15, wherein the food composition is a butter.

~~22~~19. The food composition of claim ~~18~~15, wherein the food composition is a cream.

~~23~~20. The food composition of claim ~~18~~15, wherein the food composition is an ice cream.

~~24~~21. The food composition of claim ~~18~~15, wherein the food composition is a frozen custard.

~~25~~. The food composition of claim ~~18~~, wherein the food composition is a cottage cheese.

~~26~~22. The food composition of claim ~~18~~15, wherein the food composition is a cream cheese.

~~27~~23. The food composition of claim ~~18~~15, wherein the food composition is a crème fraiche.

~~28~~24. The food composition of claim ~~18~~15, wherein the food composition is a curd.

~~29~~25. The food composition of claim ~~7~~8, wherein the food composition does not include lactose.

~~30~~26. The food composition of claim ~~8~~7, wherein the food composition does not include a hormone.

~~31~~27. The food composition of claim ~~18~~15, wherein the food composition is a milk.

3228. The food composition of claim 4815, wherein the food composition is a whey cheese.

3329. The food composition of claim 1, wherein the α -lactalbumin protein comprises an amino acid sequence that is at least 90% identical to SEQ ID NO: 92.

3430. The food composition of claim 1, wherein the β -lactoglobulin protein comprises an amino acid sequence that is at least 90% identical to SEQ ID NO: 100.

3531. The food composition that is a dairy substitute according to claim 21, wherein:
the recombinant α -lactalbumin protein comprises a sequence that is at least 90% identical to SEQ ID NO: 92; and the recombinant β -lactoglobulin protein comprises a sequence that is at least 90% identical to SEQ ID NO: 100;
the composition comprises one or more lipids; and
the dairy substitute is selected from the group consisting of: a yogurt, a whey cheese, a milk, a butter, a cream, an infant formula, an ice cream, a frozen custard, ~~a cottage cheese,~~ a cream cheese, a crème fraiche, and a curd.