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THE CANADIAN PATENT OFFICE RECORD

LA GAZETTE DU BUREAU DES BREVETS

The Canadian Patent Office Record is published on Tuesday of each week under the authority of the Commissioner of Patents, Ottawa-Gatineau, Canada, to whom all communications should be addressed.

The Canadian Intellectual Property Office does not guarantee the accuracy of this publication, nor undertake any responsibility for errors or omissions or their consequences.

La Gazette du Bureau des brevets paraît le mardi de chaque semaine sous l'autorité du Commissaire aux brevets, Ottawa-Gatineau, Canada, à qui doit être adressée toute correspondance.

L'Office de la propriété intellectuelle de Canada ne garantit pas l'exactitude de la présente publication et ne se rend responsable d'aucune erreur ou omission ou de leurs conséquences.

Table of Contents

Table des matières

Notices	
Avis	1
Canadian Patents Issued	
Brevets canadiens délivrés	25
Canadian Applications Open to Public Inspection	
Demandes canadiennes mises à la disponibilité du public.....	80
PCT Applications Entering the National Phase	
Demandes PCT entrant en phase nationale	103
Canadian Divisional and Previously Unavailable Applications Open to Public Inspection	
Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant	196
Index of Canadian Patents Issued	
Index des brevets canadiens délivrés	202
Index of Canadian Applications Open to Public Inspection	
Index des demandes canadiennes mises à la disponibilité du public	212
Index of PCT Applications Entering the National Phase	
Index des demandes PCT entrant en phase nationale	216
Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection	
Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant	234

Notices

Avis

1. Dates and Code Numerals Appearing in Patent Headings

Dates

All dates appearing in the patent headings of this publication follow the form recommended by the International Standards Organization. The four digits on the left represent the years followed by two digits each for the months and the days. For example, January 02, 1999 will be shown as 1999-01-02.

Code Numerals

The numerals within the brackets in the patent headings are INID codes. "INID" is an acronym for "Internationally agreed Numbers for the Identification of Data". These codes are utilized to identify patent bibliography as recommended by the Permanent Committee on Industrial Property Information (PCIPI) under the administration of the World Intellectual Property Organization (WIPO) based in Geneva, Switzerland.

The INID Codes and their corresponding definitions of bibliographic data elements are as follows:

- [11] - Number of Patent document
- [13] - Kind-of-document code
- [21] - Number assigned to the Application
- [22] - Date of Filing Application or
- [22] - Date of filing of related divisional application
- [25] - Language in which the published application was originally filed
- [30] - Data relating to priority under the Paris Convention

- [41] - Open to Public Inspection Date
- [45] - Date of Issue
- [48] - Correction Date (Re-Issued, Re-Examined)
- [51] - International Classification
- [52] - Domestic Classification
- [54] - Title of Invention
- [60] - Related by Supplementary Disclosure
- [62] - Related by Division
- [64] - Related by Reissue
- [71] - Name(s) of Applicant(s)
- [72] - Name(s) of Inventor(s)
- [73] - Name(s) of Grantee(s)
- [85] - National Entry Date
- [86] - PCT International Filing Data
- [87] - PCT International Publication data

1. Dates et chiffres de code figurant à l'entête des brevets

Dates

Toutes dates figurant aux entêtes des brevets de cette publication suivent la forme recommandée par l'Organisation des normes internationales. Les quatre chiffres de gauche représentent les années et sont suivis, vers la droite, de deux autres chiffres chacun, pour les mois et les jours. Le 2 janvier 1999, par exemple, sera représenté par 1999-01-02.

Chiffres de code

Les chiffres à l'intérieur des parenthèses aux entêtes des brevets sont des codes INID. Le sigle « INID » signifie « Identification numérique internationale des données bibliographiques ». Ces codes sont utilisés pour l'identification de la bibliographie de brevets, tel que recommandé par le Comité permanent chargé de l'information en matière de propriété industrielle (PCIPI), sous l'administration de l'Organisation mondiale de la propriété intellectuelle (OMPI), sise à Genève, Suisse.

Les codes INID accompagnés des définitions des données bibliographiques correspondantes sont comme suit :

- [11] - Numéro du brevet
- [13] - Désignation du type de document
- [21] - Numéro attribué à la demande
- [22] - Date du dépôt de la demande ou
- [22] - Date du dépôt de la demande divisionnaire apparentée
- [25] - Langue dans laquelle la demande publiée a été initialement déposée
- [30] - Données relatives à la priorité selon la Convention de Paris

- [41] - Date de mise à la disponibilité du public
- [45] - Date de délivrance
- [48] - Date de correction (Redélivrance, Réexamen)
- [51] - Classification internationale
- [52] - Classification nationale
- [54] - Titre de l'invention
- [60] - Apparenté par divulgation supplémentaire
- [62] - Apparenté par division
- [64] - Apparenté par redélivrance
- [71] - Nom(s) du (des) demandeur(s)
- [72] - Nom(s) de(s) l'inventeur(s)
- [73] - Nom(s) du (des) titulaire(s)
- [85] - Date d'entrée en phase nationale
- [86] - Données du dépôt international selon le PCT
- [87] - Données de publication internationale selon le PCT

2. Country Code

The Country Codes appearing in this publication conform to those contained in annex A of the *Handbook on Industrial Property Information and Documentation* published by the World Intellectual Property Organization (WIPO). This document is accessible from a link entitled Standards ST-3 on the List of WIPO Standards, Recommendations and Guidelines (Abbreviated Titles) located on the WIPO Web site: (www.wipo.int/scit/en/standards/standards.htm).

3. How to Purchase Paper Copies of Canadian Patents and Canadian Applications Open to Public Inspection

Paper copies of all other Canadian Patents and Canadian applications open to public inspection may be purchased at the cost of \$1 per page by visiting (www.strategis.ic.gc.ca/patentsorder) or by writing to the Commissioner of Patents, Ottawa-Gatineau, K1A 0C9.

Item 25.1* On requesting copy in electronic form of a document:	N/A
a) for each request	\$10
b) plus, for each patent or application to which the request relates	\$10
c) plus, if the copy is requested on a physical medium, for each physical medium requested in addition to the first	\$10
d) plus, for each additional 10 megabytes or part of them exceeding 7 megabytes	\$10

4. Orders for Patents by Class or Sub-Class

A listing of all patents that have issued in each class or sub-class including both patents in force and expired patents, may be ordered at a price of \$1 per page from the Patent Office.

2. Code des pays

Les Codes des pays qui se trouvent dans cette publication sont conformes à ceux dans l'annexe A du *Manuel sur l'information et la documentation en matière de propriété industrielle* publié par l'Organisation Mondiale de la Propriété Intellectuelle (OMPI). Ce document est accessible à partir de l'hyperlien intitulé Normes ST-3 dans la Liste des normes, recommandations et principes directeurs de l'OMPI (Titres abrégés) qui se trouve au site Web de l'OMPI: (www.wipo.int/scit/fr/standards/standards.htm).

3. Comment acheter des copies sur papier de brevets canadiens et de demandes canadiennes mises à la disponibilité du public

Les copies sur papier de tous les autres brevets canadiens et des demandes canadiennes mises à la disponibilité du public peuvent être achetées au coût de 1 \$ par page en visitant notre site Web (www.strategis.ic.gc.ca/brevetscommande) ou en écrivant au Commissaire aux brevets, Ottawa-Gatineau, K1A 0C9.

Article 25.1* Demande d'une copie d'un document sous forme électronique :	S.O.
a) pour chaque demande	10 \$
b) pour chaque demande de brevet ou brevet visé par la demande	10 \$
c) dans le cas où le document doit être copié sur plus d'un support matériel, pour chaque support matériel additionnel	10 \$
d) pour chaque tranche de 10 méga-octets qui excède 7 méga-octets, l'excédant étant arrondi au multiple supérieur	10 \$

4. Commande de brevets par classe ou sous-classe

Les listes de brevets délivrés dans chaque classe ou sous-classe, incluant les brevets en vigueur et ceux ayant expiré, peuvent être commandées auprès du Bureau des brevets au prix de 1 \$ la page.

5. Advice on Making a Patent Application

Any person intending to file a patent application may obtain an information kit upon request from the Commissioner of Patents, Ottawa-Gatineau, Canada K1A 0C9. It is recommended that applicants make use of the services of a registered Patent Agent. A list of Patent Agents in any area of Canada will also be supplied upon request.

6. Licensing of Patents

Voluntary Licences

Persons desiring to use, make or sell an invention patented in Canada should negotiate terms with the patent owner. The address of the patentee may be obtained by writing to the Commissioner of Patents, Ottawa-Gatineau, Canada, K1A 0C9. If a voluntary licence cannot be arranged, a compulsory licence may be possible.

Compulsory Licences

Three years after a patent has been granted, one may request a compulsory licence to use the patent if there has been an abuse of the exclusive right. See Sections 65 to 71 of the *Patent Act*. Applications for a compulsory licence are made to the Commissioner of Patents.

7. Patents Available for Licence or Sale

An asterisk (*) placed beside any patent listed in this issue of the *Canadian Patent Office Record* indicates that as of the date of grant the said patent is available for licence or sale. These and other patents now made available for licensing are included in the listing in part 8 of these notices.

8. List of Patents Available for Licence or Sale

The following Canadian patents have been made available this week for sale or licensing:

None

5. Conseils relatifs à la préparation de demandes de brevets

Toute personne qui a l'intention de déposer une demande de brevet peut obtenir une trousse d'information sur demande faite au Commissaire aux brevets, Ottawa-Gatineau, Canada K1A 0C9. On recommande aux demandeurs d'avoir recours aux services d'un agent de brevets inscrit au registre. Une liste des agents de brevets dans n'importe quelle région du Canada sera également fournie sur demande.

6. Octroi de licences en vertu des brevets

Licences librement accordées

Les personnes désirant utiliser, fabriquer ou vendre une invention brevetée au Canada doivent en négocier les conditions avec le titulaire du brevet. L'adresse du titulaire peut être obtenue en écrivant au Commissaire aux brevets, Ottawa-Gatineau, Canada, K1A 0C9. S'il est impossible d'obtenir une licence résultant d'un libre accord, il est peut être possible d'obtenir une licence obligatoire.

Licences obligatoires

Il est possible de faire la demande d'une licence obligatoire trois ans après l'octroi d'un brevet si les droits exclusifs qui en dérivent ont donné lieu à un abus. Voir les articles 65 à 71 de la *Loi sur les brevets*. Les demandes de licence obligatoire doivent être présentées au Commissaire aux brevets.

7. Brevets disponibles pour licence ou vente

Un astérisque (*) marqué à côté de tout brevet inscrit dans le présent numéro de la *Gazette du bureau des brevets*, signale qu'à compter de la date de la présente publication, ledit brevet est disponible pour octroi de licence ou vente. Une liste de ces brevets et d'autres mis en disponibilité pour octroi de licence, est publiée au no. 8 des présents avis.

8. Liste des brevets disponibles pour octroi de licence ou vente

Les brevets canadiens suivants ont été mis en disponibilité cette semaine pour vente ou octroi de licence :

Aucun

9. Applications Open to Public Inspection

All patent applications filed since October 1, 1989 and documents filed in connection therewith are open to public inspection at the Patent Office after the expiration of a confidentiality period of eighteen months beginning on the filing date of the application, or where a request for priority has been made in respect to the application, beginning on the priority date claimed. An application may become open to public inspection sooner at the request or with the approval of the applicant (Section 10(2) of the *Patent Act*). However, an application shall not be open for public inspection if it is withdrawn within the time set out in Section 92 of the *Patent Rules*. This time limit is two months before the expiry of the confidentiality period or where the Commissioner is able to stop technical preparations to open the application to the public at a subsequent date.

10. Language of Published Documents

When ordering a published patent, please note that the language of the document can be identified by the language code (INID [25]) EN (English) or FR (French).

11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After June 3, 2020

1. Transmittal Fee (Rule 14)	\$300
2. International Filing Fee	\$1961*
For each additional sheet over 30	\$22
3. International Search Fee	\$1600

The above mentioned fees are due at time of filing of the international application, or within one month from the international filing date (date of receipt of the international application by the receiving office). These fees are to be paid in Canadian dollars and cheques should be made payable to the Receiver General for Canada.

If the fees are not paid within one month from the international filing date, the receiving office shall invite the applicant to pay the amount required, together with a late payment fee under

9. Demandes mises à la disponibilité du public

Toutes les demandes de brevet et documents relatifs à ceux-ci, déposés au Bureau des brevets depuis le 1er octobre 1989, peuvent y être consultées après l'expiration de la période de confidentialité de dix-huit mois à compter de la date de dépôt de la demande de brevet ou, si une demande de priorité a été présentée à l'égard de celle-ci, de la date de dépôt sur laquelle la demande de priorité est fondée. Une demande de brevet peut être consultée avant l'expiration de la période, à la requête ou sur autorisation du demandeur (article 10(2) de la *Loi sur les brevets*). Toutefois, une demande de brevet ne pourra être consultée si celle-ci est retirée à l'intérieur du délai prévu à l'article 92 des *Règles sur les brevets*. Le délai prévu est de deux mois précédant la date d'expiration de la période de confidentialité ou, lorsque le commissaire est en mesure, à une date ultérieure, d'arrêter les préparatifs techniques en vue de la consultation de cette demande.

10. Langue du document publié

Toute personne intéressée à obtenir une copie d'un brevet publié doit prendre note que les codes suivants EN (Anglais) ou FR (Français) représentent (INID [25]) la langue de la copie du brevet publié.

11. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 3 juin 2020

1. Taxe de transmission (Règle 14)	300 \$
2. Taxe de dépôt internationale	1961 \$*
Pour chaque feuille au delà de 30	22 \$
3. Taxe de recherche internationale	1600 \$

Les taxes mentionnées ci-haut sont payables au moment du dépôt de la demande internationale, ou dans un délai d'un mois à compter de la date de dépôt international, (soit la date de réception de la demande internationale par l'office récepteur). Les taxes doivent être payées en dollars canadiens et les chèques sont payables au receveur général du Canada.

Si les taxes n'ont pas été payées dans un délai d'un mois à compter de la date de dépôt international, l'office récepteur invitera le demandeur à payer le montant dû, accompagné de la

Notices

Rule 16bis.2, within one month from the date of the invitation. Failure to pay the fees will result in the withdrawal of the application by the receiving office.

taxe pour le paiement tardif visée à la règle 16bis.2, dans un délai d'un mois à compter de l'invitation. Si vous omettez de payer les taxes, l'office récepteur retirera votre demande.

4. Late payment fee

50% of the fees that are due, or,
Minimum: Transmittal fee
Maximum: 50% of the international filing fee

4. Taxe pour paiement tardif

50% du montant impayé, ou,
Minimum : taxe de transmission
Maximum : 50% de la taxe de dépôt international

Preliminary Examination

Examen préliminaire

5. Handling fee (Rule 57.2(a)) \$295

5. Taxe de traitement (Règle 57.2a) 295 \$

6. Preliminary examination fee (Rule 58) \$800

6. Taxe d'examen préliminaire (Règle 58) 800 \$

* International fees will be reduced by:

* Les frais seront réduits de:

- \$295 for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- \$442 for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

- 295 \$ pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- 442 \$ pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête, la description, les revendications et l'abrégé étant en format à codage de caractères).

12. PCT Notices

12. Avis PCT

Patent Cooperation Treaty (PCT)

Traité de Coopération en matière de brevets (PCT)

Copies of the *Patent Cooperation Treaty Applicants Guide* and the *Patent Cooperation Treaty & Regulations* are available from WIPO - World Intellectual Property Organization at a cost of 200 Swiss Francs and 18 Swiss Francs, respectively.

Des copies du *Guide du déposant du PCT* ainsi que du *Traité et des Règlements* sont disponibles auprès de l'OMPI - Organisation mondiale de la propriété intellectuelle au coût de 200 francs suisses et 18 francs suisses, respectivement.

Those wishing for further information including prices for both previous and current subscriptions should contact WIPO at:

Les personnes qui désirent obtenir de plus amples renseignements, notamment sur le prix des abonnements antérieurs et courants, sont priées de s'adresser directement à :

Information Products Section
Post Office Box 18
1211 Geneva 20 Switzerland
Telephone (011 41 22) 338-9618
Facsimile (011 41 22) 740-1812

l'OMPI à la Section des produits d'information
Boîte postale 18
1211 Genève 20 Suisse
Téléphone (011 41 22) 338-9618
Télécopieur (011 41 22) 740-1812

or by "E-mail" (publications.mail@wipo.int) or visit their Web site (www.wipo.int).

ou par courriel (publications.mail@wipo.int) ou visiter leur site Web (www.wipo.int).

13. Practice Notice

LIMITED PARTNERSHIPS CAN BE ENTERED ON THE REGISTER OF AGENTS AND ON THE LIST OF TRADE-MARK AGENTS

Note: *This practice notice is intended to provide guidance on current Patent and Trade-marks Office practice and interpretation of relevant legislation. However, in the event of any inconsistency between this notice and the applicable legislation, the legislation must be followed.*

The Patent Office and the Trade-marks Office (hereinafter jointly referred to as “the Offices”) have been receiving inquiries as to whether limited partnerships are entitled to act as patent and trade-mark agents before the Offices.

With respect to the register of patent agents, section 15 of the *Patent Act* provides that a register of patent agents shall be kept in the Patent Office on which shall be entered the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for patents or in other business before the Patent Office. Section 2 of the *Patent Rules* stipulates that the expression “patent agent” means any person or firm whose name is entered on the register of patent agents pursuant to section 15. Paragraph 15(c) of the *Patent Rules* provides that the Commissioner shall enter on the register of patent agents, on payment of the fee set out in item 33 of Schedule II, the name of **any firm, if the name of at least one member of the firm is entered on the register.**

With respect to the list of trade-mark agents, subsection 28(2) of the *Trade-marks Act* provides that the list of trade-mark agents shall include the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for the registration of a trade-mark or in other business before the Trade-marks Office. Paragraph 21(d) of the *Trade-mark Regulations* (1996) stipulates that the Registrar shall, on written request and payment of the fee set out in item 19 of the schedule, enter on a list of trade-mark agents the name of **any firm having the name of at least one of its members entered on the list as a trade-mark agent.**

Both the patent and trade-mark legislation therefore provide that firms may act as agents before the Offices, as long as one of their members is entered on the register or list of agents. It is generally recognised that the term “firm” includes partnerships, and the Offices have already allowed general partnerships and limited liability partnerships to be entered on the register or list of agents. The Offices consider that limited partnerships are also firms, and that they are entitled to act as agents before the

13. Énoncé de pratique

LES SOCIÉTÉS EN COMMANDITE PEUVENT ÊTRE INSCRITES AU REGISTRE DES AGENTS DE BREVETS ET SUR LA LISTE DES AGENTS DE MARQUES DE COMMERCE

Nota : *Le présent énoncé de pratique a pour but de préciser les pratiques actuelles du Bureau des brevets et du Bureau des marques de commerce et l'interprétation faite par ces derniers de certaines dispositions législatives. Toutefois, en cas de divergence entre le présent énoncé et la législation applicable, c'est la législation qui prévaudra.*

Le Bureau des brevets et le Bureau des marques de commerce (ci-après appelés conjointement « les Bureaux ») ont reçu des questions à savoir si les sociétés en commandite (en anglais « limited partnerships ») ont le droit d'agir en tant qu'agents de brevets et de marques de commerce auprès des Bureaux.

En ce qui concerne le registre des agents de brevets, l'article 15 de la *Loi sur les brevets* prévoit qu'un registre des agents de brevets est tenu au Bureau des brevets sur lequel sont inscrits les noms de toutes les personnes et entreprises ayant le droit de représenter les demandeurs dans la présentation et la poursuite des demandes de brevet ou dans toute autre affaire devant le Bureau des brevets. Aux termes de l'article 2 des *Règles sur les brevets*, « agent de brevets » s'entend de toute personne ou maison d'affaires dont le nom est inscrit au registre des agents de brevets aux termes de l'article 15. L'alinéa 15c) des *Règles sur les brevets* prévoit que le commissaire inscrit au registre des agents de brevets, moyennant paiement de la taxe prévue à l'article 33 de l'annexe II, le nom de **toute maison d'affaires dont le nom d'au moins un membre est inscrit au registre des agents de brevets.**

En ce qui concerne la liste des agents de marques de commerce, le paragraphe 28(2) de la *Loi sur les marques de commerce* prévoit que la liste des agents de marques de commerce comporte les noms des personnes et études habilitées à représenter les intéressés dans la présentation et la poursuite des demandes d'enregistrement des marques de commerce et de toute affaire devant le Bureau des marques de commerce. Aux termes de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996), le registraire, sur demande écrite et sur paiement du droit prévu à l'article 19 de l'annexe, inscrit sur la liste des agents de marques de commerce le nom de **toute firme dont le nom d'au moins un membre est inscrit sur la liste à titre d'agent de marques de commerce.**

La législation actuelle sur les brevets et celle sur les marques de commerce prévoient donc que des firmes peuvent agir en tant qu'agents auprès des Bureaux, à condition que l'un de leurs membres soit inscrit au registre ou à la liste des agents. Il est généralement admis que le terme « firme » inclut les sociétés (en anglais « partnerships ») et les Bureaux ont déjà autorisé des sociétés en nom collectif (en anglais « general partnerships ») ainsi que des sociétés à responsabilité limitée

Notices

Offices.

Therefore, commencing immediately, the Offices will enter upon request, on the register or list of agents, limited partnerships that otherwise meet the requirements set out in the patent and trade-mark legislation.

The Offices, however, continue to consider that the current patent and trade-mark legislation do not allow corporations to be entered on the register or list of agents, since corporations do not have members and therefore cannot meet the requirements set out in paragraph 15(c) of the *Patent Rules* and paragraph 21(d) of the *Trade-mark Regulations* (1996).

14. Correspondence Procedures

The correspondence procedures and the related practice for written communications to the Commissioner of Patents and the Patent Office under the Patent Act and the Patent Rules is outlined in Chapter 2 of the Manual of Patent Office Practice (MOPOP).

Web Link for MOPOP:

http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html

The correspondence procedures and the related practice of written communications with respect to Trademarks and to Industrial Design can be found in the Practice Notice entitled [Correspondence Procedures](#), available on CIPO's website.

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:

<https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html>

Publication date: May 10, 2017

Amendment date: June 17, 2019

On this page:

1. Physical Delivery of Correspondence and Written Communications to CIPO
2. Electronic Correspondence
3. Details Concerning the Electronic Formats Accepted
4. General Information
5. Time Period Extensions
6. Procedures in Case of an Unexpected Office Closure at CIPO

(en anglais « limited liability partnerships ») à être inscrites au registre ou à la liste des agents. Les Bureaux considèrent que les sociétés en commandite sont aussi des firmes et qu'elles ont le droit d'agir en tant qu'agents auprès des Bureaux.

En conséquence, sur demande, les Bureaux inscriront désormais au registre, ou à la liste des agents, les sociétés en commandite qui répondent aux exigences de la *Loi sur les brevets et de la Loi sur les marques de commerce*.

Les Bureaux continuent toutefois de considérer que la législation actuelle sur les brevets et les marques de commerce ne permet pas aux compagnies (en anglais « corporations ») d'être inscrites au registre ou à la liste des agents, étant donné que les compagnies n'ont pas de membres et ne peuvent donc pas satisfaire aux exigences de l'alinéa 15c) des *Règles sur les brevets* et de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996).

14. Procédures de correspondance

Les procédures de correspondance et les pratiques connexes de communication écrite au commissaire aux brevets ou au Bureau des brevets en vertu de la Loi sur les brevets et des Règles sur les brevets seront exposées dans le chapitre 2 du Recueil des pratiques du Bureau des brevets (RPBB).

Lien Web pour le RPBB :

http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html

Les procédures de correspondance et les pratiques connexes de communication écrite concernant les marques de commerce et les dessins industriels se trouvent dans le document intitulé [Procédures de correspondance](#), consultable sur le site Web de l'OPIC.

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :

<https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html>

Date de publication : 10 mai 2017

Date de modification : 17 juin 2019

Sur cette page :

1. Remise physique de correspondance et communications écrites à l'OPIC.
2. Correspondance électronique
3. Précisions concernant les formats électroniques acceptés
4. Renseignements généraux
5. Prorogation des délais
6. Procédures en cas de fermeture imprévue des bureaux de l'OPIC

Avis

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office
8. Intellectual Property Acts, Rules and Regulation

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office
8. Lois, règles et règlements sur la propriété intellectuelle

This notice is intended to clarify the practice of the Canadian Intellectual Property Office with respect to correspondence procedures and written communications and replaces all previous notices.

Le présent énoncé de pratique a pour but de préciser la pratique de l'Office de la propriété intellectuelle du Canada relativement aux procédures de correspondance et de communications écrites et remplace tout avis antérieur.

1. Physical Delivery of Correspondence and Written Communications to CIPO

For the purposes of sections 5 and 54 of the Patent Rules, subsection 10(1) of the Trademarks Regulations, section 2 of the Copyright Regulations, section 4 of the Industrial Design Regulations and section 3 of the Integrated Circuit Topography Regulations, the address of the Patent Office, the Office of the Registrar of Trademarks, the Copyright Office, the Industrial Design Office, and the Office of the Registrar of Topographies (hereinafter sometimes collectively referred to as "CIPO") is:

Canadian Intellectual Property Office
Place du Portage I
50 Victoria Street, Room C-114
Gatineau QC K1A 0C9

In accordance with subsections 5(2), 5(3), 54(1) and 54(2) of the Patent Rules, subsection 10(2) of the Trademarks Regulations, subsections 2(2) and (3) of the Copyright Regulations, subsection 5(1) of the Industrial Design Regulations and subsections 3(2) and (3) of the Integrated Circuit Topography Regulations, correspondence and written communications delivered to the above address between 8:30 a.m. to 4:30 p.m. (Eastern Time) Monday to Friday is deemed to have been received on the actual date of their delivery if they are delivered when CIPO is open to the public.

Correspondence delivered at a time when CIPO is closed to the public will be deemed or considered to have been received on the day on which CIPO is next open to the public.

Please be advised that once correspondence is received by CIPO it cannot be returned to the sender, even if the sender states that the correspondence was sent by mistake. Exceptionally, in cases where correspondence is related to a patent application that does not meet the requirements under subsection 27.1(1) of the Patent Act for obtaining a filing date, the documents will be returned to the sender.

The Fee Payment Form should always be submitted as a covering document and should be the only document submitted

1. Remise physique de correspondance et communications écrites à l'OPIC

Pour l'application des articles 5 et 54 des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, de l'article 2 du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et de l'article 3 du Règlement sur les topographies de circuits intégrés, l'adresse du Bureau des brevets, du Bureau du registraire des marques de commerce, du Bureau du droit d'auteur, du Bureau des dessins industriels, et du Bureau du registraire des topographies (ci-après parfois collectivement appelés « OPIC ») est la suivante :

Office de la propriété intellectuelle du Canada
Place du Portage I
50, rue Victoria, pièce C-114
Gatineau (Québec) K1A 0C9

Conformément aux paragraphes 5(2), 5(3), 54(1) et 54(2) des Règles sur les brevets, du paragraphe 10(2) du Règlement sur les marques de commerce, des paragraphes 2(2) et (3) du Règlement sur le droit d'auteur, du paragraphe 5(1) du Règlement sur les dessins industriels et des paragraphes 3(2) et (3) du Règlement sur les topographies de circuits intégrés, la correspondance et les communications écrites ayant été remises à l'adresse ci-dessus entre 8h30 et 16h30 (Heure de l'Est) du lundi au vendredi seront réputées avoir été reçues le jour de leur remise, si elles sont remises alors que l'OPIC est ouvert au public.

La correspondance remise lorsque les bureaux de l'OPIC sont fermés au public sera réputée avoir été reçue le jour de la réouverture de l'OPIC au public.

Veuillez prendre note qu'une fois que l'OPIC reçoit de la correspondance, celle-ci ne peut pas être retournée à l'expéditeur, même si l'expéditeur indique que la correspondance a été envoyée par erreur. Exceptionnellement, dans le cas où la correspondance vise une demande de brevet qui ne rencontre pas les exigences du paragraphe 27.1(1) de la Loi sur les brevets pour l'obtention d'une date de dépôt, les documents seront retournés à l'expéditeur.

Le formulaire de paiements des frais devrait toujours être

Notices

to CIPO that contains financial information, such as credit card numbers.

Download the [Fee Payment Form](#).

1.1 Designated Establishments

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 10(1) of the Trademarks Regulations, subsection 2(4) of the Copyright Regulations, section 4 of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the following are the designated establishments or designated offices to which correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be delivered **in person**. Please note that documents, payments and payment instructions delivered to the addresses listed below **must be enclosed in a sealed envelope** and that **no in person payment transactions** are processed on site. The ordinary business hours for each designated establishment are listed below.

- Innovation, Science and Economic Development
Canada
C.D. Howe Building
235 Queen Street, Room S-143
Ottawa ON K1A 0H5
Tel.: 343-291-3436

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,
except statutory holidays

- Innovation, Science and Economic Development
Canada
Sun Life Building
1155 Metcalfe Street, Room 950
Montreal QC H3B 2V6
Tel.: 514-496-1797
Toll-free: 1-888-237-3037

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,
except statutory holidays

- Innovation, Science and Economic Development
Canada
151 Yonge Street, 4th Floor
Toronto ON M5C 2W7
Tel.: 416-973-5000

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,

fourni comme page couverture et devrait être le seul document soumis à l'OPIIC contenant de l'information financière telle que les numéros de carte de crédit.

Téléchargez le [formulaire de paiement des frais](#).

1.1 Établissements désignés

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise **en personne** aux établissements ou bureaux désignés suivants. Veuillez prendre note que les documents, paiements et instructions de paiements remis aux adresses énumérées ci-dessous doivent être **inclus dans une enveloppe scellée** et qu'**aucune transaction de paiement en personne** n'est traitée sur place. Les heures normales d'ouverture pour chaque établissement désigné sont indiquées ci-dessous.

- Innovation, Sciences et Développement économique
Canada
Édifice C.D. Howe
235, rue Queen, pièce S-143
Ottawa (Ontario) K1A 0H5
Tél. : 343-291-3436

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à
l'exception des jours fériés

- Innovation, Sciences et Développement économique
Canada
Édifice Sun Life
1155, rue Metcalfe, bureau 950
Montréal (Québec) H3B 2V6
Tél. : 514-496-1797
Sans frais : 1-888-237-3037

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à
l'exception des jours fériés

- Innovation, Sciences et Développement économique
Canada
151, rue Yonge, 4e étage
Toronto (Ontario) M5C 2W7
Tél. : 416-973-5000

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à

Avis

except statutory holiday

l'exception des jours fériés

- Innovation, Science and Economic Development
Canada
Canada Place
9700 Jasper Avenue, Suite 725
Edmonton AB T5J 4C3
Tel.: 780-495-4782
Toll-free: 1-800-461-2646

- Innovation, Sciences et Développement économique
Canada
Canada Place
9700, avenue Jasper, pièce 725
Edmonton (Alberta) T5J 4C3
Tél. : 780-495-4782
Sans frais : 1-800-461-2646

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,
except statutory holidays

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à
l'exception des jours fériés

- Innovation, Science and Economic Development
Canada
Library Square
300 West Georgia Street, Suite 2000
Vancouver BC V6B 6E1
Tel.: 604-666-5000

- Innovation, Sciences et Développement économique
Canada
Library Square
300, rue Georgia Ouest, pièce 2000
Vancouver (C.-B.) V6B 6E1
Tél. : 604-666-5000

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,
except statutory holidays

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à
l'exception des jours fériés

In accordance with subsections 5(4), 5(5), 54(3) and 54(4) of the Patent Rules, subsection 10(3) of the Trademarks Regulations, subsections 2(4) and (5) of the Copyright Regulations, subsection 5(2) of the Industrial Design Regulations and subsections 3(4) and (5) of the Integrated Circuit Topography Regulations, correspondence delivered to a designated establishment on a day when CIPO is open to the public will be deemed or considered to be received on the day on which they are delivered to that designated establishment. If CIPO is closed to the public, correspondence will be deemed or considered to be received on the day on which CIPO is next open to the public. For example, if correspondence intended for CIPO is delivered to the designated establishment in Toronto on June 24, it will not be considered to be received on June 24 as CIPO is closed on that day (St-Jean-Baptiste Holiday in Quebec). It will be deemed received on the day on which CIPO is next open to the public.

Conformément aux paragraphes 5(4), 5(5), 54(3) et 54(4) des Règles sur les brevets, au paragraphe 10(3) du Règlement sur les marques de commerce, aux paragraphes 2(4) et (5) du Règlement sur le droit d'auteur, au paragraphe 5(2) du Règlement sur les dessins industriels et aux paragraphes 3(4) et (5) du Règlement sur les topographies de circuits intégrés, la correspondance remise à l'un des établissements désignés susmentionnés lorsque les bureaux de l'OPIC sont ouverts au public sera réputée ou considérée avoir été reçue le jour de leur remise à cet établissement désigné. Si les bureaux de l'OPIC sont fermés au public, la correspondance sera réputée ou considérée avoir été reçue à le jour de la réouverture de l'OPIC au public. Par exemple, la correspondance adressée à l'OPIC remise à l'établissement désigné de Toronto le 24 juin ne sera pas considérée avoir été reçue le 24 juin puisque les bureaux de l'OPIC sont fermés ce jour-là (la Saint-Jean Baptiste est un jour férié au Québec). La correspondance sera alors réputée avoir été reçue le jour de la réouverture des bureaux de l'OPIC au public.

1.2. Registered Mail™ and Xpresspost™ services of Canada Post

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 3(4) of the Trade-marks Regulations, subsection 2(4) of the Copyright Regulations, subsection 3(4) of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the Registered Mail™ and Xpresspost™ services of Canada Post are designated establishments or designated offices to which

1.2. Services Courrier recommandé^{MC} et Xpresspost^{MC} de Postes Canada

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, les services Courrier recommandé^{MC} et Xpresspost^{MC} de Postes Canada sont des établissements ou des

Notices

correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be delivered.

CIPO considers that correspondence delivered through the Registered Mail™ and Xpresspost™ services of Canada Post is received by CIPO on the day indicated on the mailing receipt provided by Canada Post, or if CIPO is closed for business on that day, on the day when CIPO is next open for business.

2. Electronic Correspondence

For the purposes of section 8.1 of the Patent Act, subsection 64(1) of the Trademarks Act, subsection 24.1(1) of the Industrial Design Act and in accordance with subsections 5(6), 54(5), and 68(3) of the Patent Rules, subsection 10(4) of the Trademarks Regulations, subsection 2(6) of the Copyright Regulations, subsection 10(3) of the Industrial Design Regulations, and subsection 3(6) of the Integrated Circuit Topography Regulations, correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent by facsimile, online or on an electronic medium only as provided in the current notice.

In accordance with subsection 54(5) of the Patent Rules, the request for national entry is the only correspondence addressed to the Commissioner in respect of an international application that can be submitted online or on an electronic medium with the exception of sequence listings, applications prepared using the PCT-SAFE software or prepared using WIPO's ePCT online service as specified in the current notice. Other correspondence submitted online or on an electronic medium in respect of international applications that have not entered the national phase will not be accepted.

Subsection 10(5) of the Trademarks Regulations specifies certain categories of correspondence to which the provisions of subsection 10(4) do not apply.

Correspondence sent by facsimile or online to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies constitutes the original, therefore a duplicate paper copy should not be forwarded.

Correspondence delivered to the Commissioner of Patents by electronic means of transmission, including facsimile, will be considered to be received on the day that it is transmitted if delivered and received before midnight local time at CIPO on a day when CIPO is open for business. When CIPO is closed for business, correspondence delivered on that day will be considered to be received on the next day on which CIPO is

bureaux désignés auxquels la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise.

L'OPIC considère que la correspondance remise par l'entremise des services Courrier recommandé^{MC} et Xpresspost^{MC} de Postes Canada sont reçus par l'OPIC le jour indiqué sur le reçu de confirmation de Postes Canada, en autant que l'OPIC soit ouvert au public ce jour-là. Si l'OPIC est fermé au public ce jour-là, la correspondance sera réputée ou considérée avoir été reçue le jour de réouverture de l'OPIC au public.

2. Correspondance électronique

Pour l'application de l'article 8.1 de la Loi sur les brevets, du paragraphe 64(1) de la Loi sur les marques de commerce, du paragraphe 24.1(1) de la Loi sur les dessins industriels, et conformément aux paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, au paragraphe 10(4) du Règlement sur les marques de commerce, au paragraphe 2(6) du Règlement sur le droit d'auteur, au paragraphe 10(3) du Règlement sur les dessins industriels et au paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise par télécopieur, en ligne ou à l'aide d'un support électronique et ce, seulement de la manière indiquée dans le présent énoncé.

Conformément au paragraphe 54(5) des Règles sur les brevets, la demande d'entrée en phase nationale d'une demande internationale est la seule correspondance adressée au commissaire qui peut être présentée en ligne ou sur support électronique, à l'exception des listages de séquences, des demandes préparées à l'aide du logiciel PCT-SAFE ou préparées à l'aide du service en ligne ePCT de l'OMPI, tel qu'indiqué dans le présent avis. Toute autre correspondance présentée en ligne ou sur support électronique relativement à des demandes internationales qui ne sont pas entrées dans la phase nationale ne sera pas acceptée.

Le paragraphe 10(5) du Règlement sur les marques de commerce prévoit certaines catégories de correspondance auxquelles les dispositions du paragraphe 10(4) ne s'appliquent pas.

La correspondance envoyée par télécopieur ou en ligne au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies constitue une version originale. Par conséquent, un duplicata sur support papier ne devrait pas être expédié.

La correspondance livrée au commissaire aux brevets et reçue par voie électronique, y compris par télécopieur, est considérée comme ayant été reçue à l'OPIC le jour même de sa transmission, si elle est livrée avant minuit, heure locale,

Avis

open for business.

Correspondence delivered to the Registrar of Trademarks or the Industrial Design Office by electronic means of transmission, including facsimile, is deemed to have been received on the day on which CIPO receives it (Eastern Time).

2.1 Facsimile

Black and white facsimile correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent to the following facsimile numbers:

(819) 953-CIPO (2476) or (819) 953-OPIC (6742)

Colour facsimile correspondence addressed to the Registrar of Trademarks or the Industrial Design Office **must** be sent to the following facsimile number:

(819) 934-3833

Note that the model of facsimile is a Xerox C505/X and that this information may be needed to ensure a successful colour transmission.

Facsimile correspondence that is sent to any facsimile number other than those indicated above, including those of a designated establishment, will be considered not to have been received.

Evidence submitted by facsimile in respect of an opposition or section 45 proceeding **will not be accepted** due to issues such as the often-poor quality of transmission, the risk of incomplete transmission and the voluminous nature of the documents.

The electronic transmittal report returned to you following your facsimile transmission will constitute your acknowledgment receipt. Confidentiality of the facsimile transmission process cannot be guaranteed. Please note that CIPO strongly discourages the use of a computer facsimile interface or internet-based facsimile services due to technical issues with reception.

When submitting by facsimile a document that also has a fee requirement, notification of the preferred mode of payment to be applied must be prominently displayed on the Fee Payment Form to ensure expedient processing.

lorsque les bureaux de l'OPIC sont ouverts au public. Si elle est transmise un jour où les bureaux de l'OPIC sont fermés au public, elle est considérée comme ayant été reçue à la date du jour d'ouverture suivant de l'OPIC.

La correspondance fournie au registraire des marques de commerce ou transmise au Bureau des dessins industriels par voie électronique, y compris par télécopieur, est réputée avoir été reçue le jour où l'OPIC l'a reçue (Heure de l'Est).

2.1 Correspondance par télécopieur

La correspondance en noir et blanc par télécopieur adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise aux numéros ci-dessous :

819-953-OPIC (6742) ou 819-953-CIPO (2476)

La correspondance en couleur par télécopieur (modèle : Xerox C505/X) adressée au registraire des marques de commerce ou au Bureau des dessins industriels doit être transmise au numéro ci-dessous :

(819) 934-3833

À noter que le modèle de télécopieur est un Xerox C505/X; information qui peut être nécessaire afin de compléter une transmission en couleur.

La correspondance qui est transmise par télécopieur à tout autre numéro de télécopieur que ceux qui sont indiqués ci-dessus, y compris ceux d'établissements désignés, sera considérée comme n'ayant pas été reçue.

Les éléments de preuve présentés par télécopieur dans le cadre d'une procédure d'opposition ou de radiation en vertu de l'article 45 de la Loi **ne seront pas acceptés** en raison des inconvénients reliés à la mauvaise qualité de la transmission, au risque que la transmission soit incomplète et à la nature volumineuse de ces documents.

Le rapport de transmission électronique que vous recevrez après votre transmission par télécopieur constituera votre accusé de réception. La confidentialité du processus de transmission électronique ne peut pas être garantie. Veuillez noter que l'OPIC décourage fortement l'utilisation d'une interface de télécopie par ordinateur ou de services de télécopie par le biais d'internet étant donné les problèmes techniques probables avec la réception.

Lors de la transmission par télécopieur d'un document comprenant une demande d'acquiescement de droit ou taxe, il faut clairement indiquer le mode de paiement préféré sur le formulaire de paiements des frais afin d'assurer un traitement rapide.

Notices

Patents

The document presentation requirements set out in sections 69 and 70 of the Patent Rules apply to facsimile correspondence.

2.2 Online

Correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be sent electronically using the relevant links below.

Patents

For the purpose of subsection 5(6) of the Patent Rules, correspondence addressed to the Commissioner may be sent electronically by accessing the following pages:

- [filing an application](#) (regular application);
- [filing a request for national entry](#);
- [filing an international application](#) (PCT Safe or ePCT);
- [general correspondence relating to applications and patents](#);
- [maintaining the name of a patent agent on the register of patent agents](#); and
- [ordering copies in paper, or electronic form of a document](#).

Canada as Receiving Office Under the PCT: PCT-SAFE

Pursuant to PCT Rule 89bis, CIPO, in its role as a receiving Office, accepts the electronic filing of an international application prepared using the latest version of the WIPO's PCT-Safe software and applications prepared using WIPO's ePCT online service. Filing in both cases must be done using CIPO's International Filing e-service, called [PCT E-Filing](#).

Note: Correspondence related to PCT international applications can not be sent electronically to CIPO. Correspondence may be sent by mail, by facsimile or delivered by hand to CIPO or to a [designated establishment](#).

Trademarks

For the purpose of subsection 10(4) of the Trademarks Regulations, the following correspondence addressed to the Registrar of Trademarks may be sent electronically by

Brevets

Les exigences relatives à la présentation des documents énoncées aux articles 69 et 70 des Règles sur les brevets s'appliquent à la correspondance par télécopieur.

2.2 En ligne

La correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur ou au registraire des topographies peut être transmise par voie électronique.

Brevets

Pour l'application du paragraphe 5(6) des Règles sur les brevets, la correspondance adressée au commissaire peut être envoyée par voie électronique, notamment en accédant aux pages suivantes :

- [déposer une demande](#) (demande régulière);
- [déposer une demande d'entrée dans la phase nationale](#);
- [déposer une demande internationale](#) (PCT Safe ou ePCT);
- [correspondance générale concernant des demandes et des brevets](#);
- [maintien du nom d'un agent de brevets dans le registre des agents de brevets](#);
- [commande de copies papier ou d'un document sous forme électronique](#).

Le Canada comme office récepteur au titre du PCT : PCT-SAFE et ePCT

Conformément à la Règle 89bis du PCT, l'OPIC, à titre d'office récepteur, accepte le dépôt d'une demande internationale préparée à l'aide de la plus récente version du logiciel PCT-SAFE de l'OMPI, et d'une demande préparée à l'aide du service en ligne ePCT de l'OMPI. Dans les deux cas, le dépôt doit se faire à l'aide du service électronique de dépôt de demandes internationales de l'OPIC, appelé [Dépôt en ligne de demandes PCT](#).

Note: La correspondance liée aux demandes internationales PCT ne peut être envoyée par voie électronique à l'OPIC. La correspondance peut être envoyée par courrier, par télécopieur ou remis en mains à l'OPIC ou à un [établissement désigné](#).

Marques de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce peut être envoyés par voie électronique, notamment en accédant aux pages suivantes

Avis

accessing the following pages:

- [filing a new or revised trademark application](#);
- [renewal of a trademark registration](#);
- [request to enter a name on the list of trademark agents](#);
- [annual renewal of a trademark agent](#);
- [requesting copies of trademark documents](#);
- [registration of a trademark application](#);

For the purpose of subsection 10(4) of the Trademarks Regulations, correspondence addressed to the Registrar of Trademarks in the context of opposition and section 45 proceedings may be sent electronically by accessing the [Trademarks Opposition Board's online web application](#):

Opposition proceedings before the Trademarks Opposition Board

- filing a statement of opposition;
- filing of a counter statement;
- submission of the opponent's evidence, or statement;
- submission of the applicant's evidence, or statement;
- submission of the opponent's reply evidence;
- submission of the opponent's written representations, or statement;
- submission of the applicant's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

Section 45 proceedings before the Trademarks Opposition Board

- filing a request for a section 45 notice;
- submission of the registered owner's evidence;
- submission of the requesting party's written representations, or statement;
- submission of the registered owner's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

Copyright

:

- [nouvelle demande ou demande modifiée d'enregistrement de marque de commerce](#);
- [renouvellement de l'enregistrement d'une marque de commerce](#);
- [demande d'inscription d'un nom à la liste des agents de marques de commerce](#);
- [renouvellement annuel d'un agent de marques de commerce](#);
- [commande de copies de documents de marques de commerce](#);
- [l'enregistrement d'une marque de commerce](#)

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce dans le cadre des procédures d'opposition ou de radiation en vertu de l'article 45 peut être envoyée par voie électronique en accédant à [l'application web en ligne de la Commission des oppositions des marques de commerce](#).

Procédures d'opposition devant la Commission des oppositions des marques de commerce

- production d'une déclaration d'opposition;
- Production d'une contre-déclaration d'opposition;
- Production de la preuve de l'opposant, ou d'une déclaration;
- Production de la preuve du requérant, ou d'une déclaration;
- Production de la contre-preuve de l'opposant;
- Production des arguments écrits de l'opposant, ou déclarations;
- Soumission des arguments écrits du requérant, ou déclarations;
- Produire une demande pour une audience; et
- demande de prolongation de délai.

Procédures en vertu de l'article 45 devant la Commission des oppositions des marques de commerce

- Production d'une demande pour un avis en vertu de l'article 45;
- Production de la preuve du propriétaire inscrit;
- Production des arguments écrits de la demanderesse, ou déclaration;
- Production des arguments écrits du propriétaire inscrit, ou déclaration;
- Produire une demande pour une audience; et
- Demande de prolongation de délai.

Droits d'auteur

Notices

For the purpose of subsection 2(6) of the Copyright Regulations, the following correspondence addressed to the Copyright Office may be sent electronically, by accessing the following pages:

- [application for registration of a copyright in a work](#),
- [application for registration of a copyright in a performer's performance, sound recording or a communication signal](#);
- [filing a grant of interest](#);
- [request for certificate of correction](#);
- [ordering copies in paper, or electronic form of a document](#); and
- [general correspondence relating to copyright](#).

Industrial Designs

For the purpose of subsection 24.1(1) of the Industrial Design Act, the following correspondence addressed to the Industrial Design Office may be sent electronically, by accessing the following pages:

- [application for registration of an industrial design](#);
- [ordering copies in paper, or electronic form of a document](#);
- [general correspondence relating to industrial designs](#); and
- [payment of industrial design maintenance fees](#).

Integrated Circuit Topographies

For the purpose of subsection 3(6) of the Integrated Circuit Topography Regulations, the following correspondence addressed to the Registrar of Topographies may be sent electronically, by accessing the following page:

- [general correspondence relating to integrated circuit topographies](#).

2.3 Electronic medium

Note: all electronic media must be free of worms, viruses or other malicious content. Files with malicious content will be deleted.

Pour l'application du paragraphe 2(6) du Règlement sur le droit d'auteur, la correspondance indiquée ci-dessous qui est adressée au Bureau du droit d'auteur peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- [demande d'enregistrement d'un droit d'auteur sur une œuvre](#),
- [demande d'enregistrement d'un droit d'auteur sur une prestation, un enregistrement sonore ou un signal de communication](#);
- [dépôt d'une concession d'intérêt](#);
- [demande de certificat de correction](#);
- [commande de copies des documents papier ou électroniques](#) et
- [correspondance générale relative aux droits d'auteur](#).

Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, la correspondance indiquée ci-dessous qui est adressée au Bureau des dessins industriels peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- [demande d'enregistrement d'un dessin industriel](#);
- [commande de copies de documents papier ou électroniques](#);
- [correspondance générale relative aux dessins industriels](#); et
- [paiement des droits de maintien des dessins industriels](#).

Topographies de circuits intégrés

Pour l'application du paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance indiquée ci-dessous qui est adressée au registraire des topographies peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- [correspondance générale relative aux topographies de circuits intégrés](#).

2.3 Supports électroniques

Note : Les supports électroniques doivent être exempts de ver informatique, de virus, ou de tout autre contenu malveillant. Les fichiers qui comprennent du contenu malveillant seront supprimés.

Brevets

Patents

The Patent Office will accept correspondence on various types of electronic medium as specified below. The electronic medium should contain a table of contents and be provided with a cover letter, which will be date stamped by CIPO and placed in the application file. Filing date requirements prescribed in the Patent Rules still remain.

When submitted on an electronic medium, the parts of the application must be logically broken down in files, which are no larger than 25 megabytes.

With regards to sequence listings under Rule 111 of the Patent Rules, the electronic medium must be separate from any electronic medium which may be filed containing parts of the application itself or amendment(s) thereof.

Canada as Receiving Office Under the PCT: Electronic Filing of Sequence Listings

Pursuant to PCT Rules 89bis and 89ter, and in accordance with Part 7 of the PCT Administrative Instructions, where an international application contains disclosure of one or more nucleotide and/or amino acid sequence listings, CIPO, in its role as a receiving Office, accepts that the sequence listing part of the description and/or any table related to the sequence listing(s) be filed, at the option of the applicant:

- i. only on an electronic medium in electronic form in accordance with section 702 of Part 7 of the PCT Administrative Instructions; or
- ii. both on an electronic medium in electronic form and on paper in accordance with section 702 of Part 7 of the PCT Administrative Instructions;

provided that the other elements of the international application are filed as otherwise provided for under the PCT.

The sequence listing part of an international application filed in electronic form and related tables filed in electronic form shall comply with the relevant provisions of Annex C and C-bis of the PCT Administrative Instructions respectively.

For this purpose the Canadian receiving Office will accept any electronic media specified in Annex F of the PCT Administrative Instructions. Where both the sequence listing and the tables are filed in electronic form, the listing and the tables shall be contained on separate electronic media, which shall contain no other programs or files.

For the purpose of processing the international application, the Canadian receiving Office requires two (2) additional copies of

Le Bureau des brevets acceptera la correspondance transmise à l'aide de divers supports électroniques, tel qu'indiqué ci-dessous. Le support électronique devrait contenir une table des matières et être accompagné d'une lettre explicative, laquelle sera datée par l'OPIC et placée dans le dossier de la demande. Les exigences relatives à la date de dépôt énoncées dans les Règles sur les brevets resteront applicables.

Les parties d'une demande qui sont présentées sur support électronique doivent être logiquement réparties en fichiers de 25 mégaoctets au maximum.

En ce qui concerne les listages des séquences prévus à l'article 111 des Règles sur les brevets, le support électronique doit être distinct de tout support électronique qui peut être déposé et qui contient des parties de la demande elle-même ou des modifications relatives à la demande.

Le Canada comme office récepteur au titre du PCT : Dépôt électronique des listages de séquences

Conformément aux Règles 89bis et 89ter du PCT et à la Partie 7 des Instructions administratives du PCT, lorsqu'une demande internationale contient la divulgation d'un ou de plusieurs listages des séquences de nucléotides et/ou d'acides aminés, à titre d'office récepteur l'OPIC accepte le dépôt de la partie de la description contenant les listages des séquences et/ou de tout tableau relatif aux listages des séquences et ce, à la discrétion du requérant :

- i. seulement sous forme électronique et sur support électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT, ou
- ii. sur support papier et sur support électronique sous forme électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT,

à condition que les autres éléments de la demande internationale soient déposés conformément aux dispositions du PCT.

Dans une demande internationale déposée sous forme électronique, la partie qui contient le listage des séquences et les tableaux connexes seront conformes aux dispositions pertinentes de l'Annexe C et de l'Annexe C-bis des Instructions administratives du PCT, respectivement.

À cette fin, l'office récepteur canadien acceptera tout support électronique prévu à l'Annexe F des Instructions administratives du PCT. Lorsque le listage des séquences et les tableaux sont déposés sous forme électronique, ils le seront sur des supports électroniques distincts ne contenant pas d'autres programmes ni fichiers.

Notices

the electronic media containing the sequence listing and/or tables in electronic form, accompanied by a statement that the sequence listings and/or tables contained in the copies are identical to those in electronic form as filed.

For further details concerning the filing of sequence listings and/or tables in electronic form, including the labeling of the electronic media and the calculation of the international filing fee, refer to section 7 of the PCT Administrative Instructions.

Electronic Media accepted by the Patent Office

The Patent Office will accept 3.5 inch diskette, CD-ROM, CD-R, DVD, DVD-R and any format as specified in Annex F of the PCT Administration Instructions.

Trademarks and Industrial Design

The Office of the Registrar of Trademarks and the Industrial Design Office will accept the following types of electronic media: CD-ROM, CD-R, DVD, DVD-R, and USB stick.

3. Details Concerning the Electronic Formats Accepted

Patents

In accordance with section 8.1 of the Patent Act, and for the purposes of subsections 5(6), 54(5), and 68(3) of the Patent Rules, the acceptable file formats for documents submitted electronically site using the relevant links set out in [section 2.2](#) of these correspondence procedures or on electronic media are TIFF and PDF. In order to get a correspondence date, the office will accept documents initially filed in other formats provided they are viewable with the software "Stellent Quick View Plus 8.0.0". In these cases, the office will request the documents to be replaced by documents in PDF or TIFF and the submission of a statement to the effect that the replacement documents are the same as the documents initially filed.

Sequence listings can be initially provided in TIFF, PDF or in ASCII file formats. However, as a completion requirement according to section 94 of the Patent Rules, a sequence listing in the ASCII format compliant with the "PCT sequence listing standard" has to be submitted. Therefore, CIPO encourages applicants to submit the sequence listings in the ASCII format in the first place.

When applicable, the Patent Office will accept files in the

Aux fins du traitement de la demande internationale, l'office récepteur canadien exige deux (2) copies supplémentaires du support électronique contenant le listage de séquences et/ou les tableaux sous forme électronique, accompagnées d'une déclaration indiquant que le listage des séquences et/ou les tableaux contenus dans les copies sont identiques à ceux qui ont été déposés sous forme électronique.

On trouvera à l'article 7 des Instructions administratives du PCT des détails supplémentaires sur le dépôt de listages des séquences et/ou de tableaux sous forme électronique, notamment sur l'étiquetage des supports électroniques et le calcul de la taxe de dépôt internationale.

Supports électroniques acceptés par le Bureau des brevets

Le Bureau de brevets acceptera des disquettes 3,5 pouces, CD-ROM, CD-R, DVD, DVD-R et tout format spécifié à l'Annexe F des Instructions administratives du PCT.

Marques de commerce et dessins industriels

Le Bureau du registraire des marques de commerce et le Bureau des dessins industriels acceptent les supports électroniques suivants : CD ROM, CD-R, DVD, DVD-R, et clé USB.

3. Précisions concernant les formats électroniques acceptés

Brevets

Conformément à l'article 8.1 de la Loi sur les brevets et aux fins des paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, les formats de fichiers acceptables pour les documents présentés par voie électronique en utilisant les liens spécifiés à [l'article 2.2](#) des présentes procédures de correspondance ou sur support électronique sont les formats TIFF et PDF. Pour qu'une date de correspondance soit attribuée, le Bureau acceptera des documents initialement déposés dans d'autres formats à condition qu'ils soient consultables à l'aide du logiciel « Stellent Quick View Plus 8.0.0 ». Dans de tels cas, le Bureau exigera le remplacement des documents par des fichiers en format PDF ou TIFF, ainsi qu'une déclaration indiquant que ces fichiers sont identiques aux documents initialement déposés.

Les listages des séquences peuvent être initialement déposés sous forme de fichiers TIFF, PDF ou ASCII. Toutefois, afin de compléter la demande, conformément à l'article 94 des Règles sur les brevets, un listage des séquences en format ASCII conforme à la Norme PCT de listage des séquences devra être présenté. L'OPIC encourage donc les demandeurs à déposer les listages de séquences en format ASCII dès le départ.

Avis

TIFF, PDF and ASCII format when they comply with the following specifications:

TIFF Format:

- TIFF CCITT Group 4, single or multi-page, black and white;
- Resolution of either 300 or 400 dpi;
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 1/2" by 11" or A4.

PDF Format:

- Adobe Portable Document Format Version 1.4 compatible;
- Non-compressed text to facilitate searching;
- Unencrypted text;
- No embedded OLE objects;
- All fonts must be embedded and licensed for distribution.

ASCII

- Shall be encoded using IBM Code Page 437, IBM Code Page 932 or a compatible code page.

Trademarks

For the purposes of subsection 64(1) of the Trademarks Act, the acceptable file formats for documents submitted electronically using the relevant links set out in [section 2.2](#) of these correspondence procedures are: PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP and Doc.

Industrial Design

For the purposes of subsection 24.1(1) of the Industrial Design Act, the acceptable file formats for documents, other than a representation of a design, submitted electronically are WPD, DOC, DOCX and PDF. The acceptable file formats for the representation of a design are PDF, JPEG, TIFF and GIF. The file size limit is of 60MB for PDF, 10MB for the other file formats. The scanned/stored images should be of a resolution of at least 300 dpi and the dimensions must be of 21.59 cm by 27.94 cm (8.5 in by 11 in).

Note that the conversion of files to an acceptable format may result in a change to the quality of the drawings.

Le cas échéant, le Bureau des brevets acceptera des fichiers en format TIFF, PDF et ASCII s'ils sont conformes aux spécifications suivantes :

Format TIFF

- TIFF CCITT Groupe 4, une ou plusieurs pages, noir et blanc
- Résolution : 300 ou 400 ppp
- Les dimensions des images balayées par scanner ou mémorisées doivent être compatibles avec celles qui sont requises pour les papiers, soit 8 1/2 po par 11 po ou A4.

Format PDF

- Compatible avec Adobe Portable Document Format Version 1.4
- Texte non comprimé, pour faciliter la recherche
- Texte non chiffré
- Pas d'objets OLE incorporés
- Toutes les polices de caractère doivent être incorporées et leur distribution doit être autorisée.

ASCII

- Le texte sera encodé à l'aide des pages de codes IBM 437 ou IBM 932 ou d'une page de codes compatible.

Marques de commerce

Pour l'application du paragraphe 64(1) de la Loi sur les marques de commerce, les formats de fichiers acceptables pour les documents fournis par un moyen électronique énoncé à la [section 2.2](#) des présentes procédures de correspondance sont : PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP et Doc.

Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, les formats de fichiers acceptables pour les documents autres que la représentation d'un dessin, transmis par voie électronique sont : WPD, DOC, DOCX, PDF. Les formats de fichiers acceptables pour la représentation d'un dessin sont PDF, JPEG, TIFF, et GIF. La taille maximale est de 60MB pour le format PDF et de 10MB pour tout autre format. L'image numérisée/stockée devrait être dans une résolution d'au moins 300 dpi et les dimensions doivent être de 21,59 cm par 27,94 cm (8,5 po par 11po)

Veillez noter que la conversion de fichiers vers un format acceptable pourrait résulter en un changement à la qualité des dessins.

Notices

4. General Information

General information may be obtained by communicating with CIPO's [Client Service Centre](#).

5. Time Period Extensions

- [Time period extensions under the Patent, Trademarks and Industrial Design Acts](#)
- [Time period extensions under the Copyright and Integrated Circuit Topography Acts](#)
- [Time period extensions under the Patent Cooperation Treaty](#)
- [Time period extensions under the Madrid Protocol and the Hague Agreement](#)

Time period extensions under the Patent, Trademarks and Industrial Design Acts

For the purposes of subsection 78(1) of the Patent Act, subsection 66(1) of the Trademarks Act, and subsection 21(1) of the Industrial Design Act, any time period fixed under those Acts and ending on 1) a **prescribed day** set out in the list below or 2) a **designated day** on account of unforeseen circumstances, will be extended to the next day that is not a prescribed day or a designated day and where CIPO is open to the public.

Designated days are those days that are designated by the Commissioner, the Registrar, or the Minister, on account of unforeseen circumstances and if they are satisfied that it is in the public interest to do so. If a day is designated, the public will be informed of that fact on CIPO's website.

Prescribed days under the Patent Act, Trademarks Act and Industrial Design Act are as follows:

- Every Saturday and Sunday;
- New Year's Day (January 1)*;
- Good Friday;
- Easter Monday;
- Victoria Day: First Monday immediately preceding May 25;
- St. Jean Baptiste Day (June 24)*;
- Canada Day (July 1)*;
- The first Monday in August;***
- Labour Day: First Monday in September;
- Thanksgiving Day: Second Monday in October;

4. Renseignements généraux

Des renseignements généraux peuvent être obtenus en communiquant avec [le Centre de services à la clientèle de l'OPIC](#).

5. Prorogation des délais

- [Prorogation des délais en vertu des les Lois sur les brevets, les marques de commerce, et les dessins industriels](#)
- [Prorogation des délais en vertu des les Lois sur le droit d'auteur et les topographies de circuits intégrés](#)
- [Prorogation des délais en vertu du le Traité de coopération en matière de brevets](#)
- [Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye](#)

Prorogation des délais prévus par les Lois sur les brevets, les marques de commerce, et les dessins industriels

Pour l'application du paragraphe 78(1) de la Loi sur les brevets, du paragraphe 66(1) de la Loi sur les marques de commerce, et du paragraphe 21(1) de la Loi sur les dessins industriels, tout délai fixé sous le régime de ces lois et qui expire 1) un **jour prescrit ou réglementaire** tel qu'indiqué dans la liste ci-dessous, ou 2) un **jour désigné** en raison de circonstances imprévues, sera prorogé jusqu'au jour suivant qui n'est ni un jour prescrit ni un jour désigné et où l'OPIC est ouvert au public.

Les **jours désignés** sont les jours désignés par le commissaire, le registraire, ou le ministre, où, en raison de circonstances imprévues, s'il est dans l'intérêt public de le faire. Si un jour est désigné, le public en sera informé sur le site web de l'OPIC.

Les **jours prescrits ou réglementaires** en vertu de la Loi sur les brevets, de la Loi sur les marques de commerce et de la Loi sur les dessins industriels sont les suivants :

- Tous les samedis et dimanches;
- Nouvel An (1^{er} janvier)*;
- Vendredi Saint;
- Lundi de Pâques;
- Fête de la Reine ou Journée nationale des patriotes : Premier lundi immédiatement avant le 25 mai;
- Saint-Jean-Baptiste (24 juin)*;
- Fête du Canada (1^{er} juillet)*;
- Le premier lundi du mois d'août***;
- Fête du travail : Premier lundi du mois de septembre;

Avis

- Remembrance Day (November 11)*;
- Christmas Day (December 25)**;
- Boxing Day (December 26)** ;
- Any day on which CIPO is closed to the public for all or part of that day during ordinary business hours.

*In the case of New Year's Day, St. Jean Baptiste Day, Canada Day and Remembrance Day, if the day falls on a Saturday or Sunday, deadlines will be extended to the following Tuesday.

**If December 25 falls on a Friday, deadlines will be extended to the following Tuesday. If December 25 falls on a Saturday or Sunday, any time periods ending on December 25 or December 26 will be extended to the following Wednesday.

***Please note that the Office is open to the public on the first Monday in August. Any time period which expires on that day will be extended to the next day the Office is open to the public (first Tuesday in August). However, any correspondence or fees submitted to the Office on that day will be deemed or considered received on that day.

Extensions for prescribed days occur regardless of place of residence or of the establishment to which documents are delivered.

Please be aware that not all provincial and territorial holidays are days where deadlines are extended. It is recommended that clients be mindful and ensure that all deadlines are respected.

Time period extensions under the Copyright and Integrated Circuit Topography Acts

In accordance with section 26 of the Interpretation Act, any person choosing to deliver a document to CIPO or a designated establishment (including the Registered Mail™ and Xpresspost™ services of Canada Post) where a federal, provincial or territorial holiday exists, is entitled to an extension of any time limit for the filing of the document that expires on the holiday, until the next day that is not a holiday. It is to be noted, in respect of provincial and territorial holidays, that the entitlement to the extension is dependent on the establishment to which the document is delivered and not on the place of residence of the person for whom the document is filed or of their agent. For this purpose, documents transmitted to CIPO by electronic means, including by facsimile, would be considered to be delivered to CIPO's offices in Gatineau, Quebec.

CIPO has no practical way of keeping track of the establishment to which documents are delivered. Accordingly,

- Action de Grâce : Deuxième lundi du mois d'octobre;
- Jour du Souvenir (11 novembre)*;
- Jour de Noël (25 décembre)**;
- Lendemain de Noël** ;
- Tout jour où l'OPIC est fermé au public pendant tout ou une partie des heures normales d'ouverture de l'OPIC au public.

*Si le Nouvel An, la Saint-Jean-Baptiste, la Fête du Canada, ou le Jour du Souvenir est un samedi ou un dimanche, les délais seront prorogés au mardi suivant.

**Si le 25 décembre est un vendredi, les délais seront prorogés au mardi suivant. Si le 25 décembre est un samedi ou un dimanche, les délais seront prorogés au mercredi suivant.

***Veuillez noter que les Bureaux sont ouverts au public le premier lundi du mois d'août. Tout délai qui expire ce jour-là sera prorogé au prochain jour ouvrable (premier mardi du mois d'août). Cependant, toute correspondance, droits ou taxes fournis au Bureau ce jour-là seront réputés ou considéré avoir été reçus à cette date.

La prorogation de délai concernant les jours prescrits ou réglementaires s'appliquent nonobstant du lieu de résidence ou du lieu de l'établissement auquel les documents ont été remis.

Veuillez noter que ce ne sont pas tous les jours fériés provinciaux ou territoriaux qui sont des jours prescrits ou réglementaires pour lesquels un délai peut être prorogé. Il est recommandé que les clients soient attentifs et s'assurent que tout délai soit respecté.

Prorogation des délais prévus par les Lois sur le droit d'auteur et sur les topographies de circuits

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé^{MC}, ou par Xpresspost^{MC} de Postes Canada) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris par télécopieur, sont réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi relativement aux établissements auxquels des documents sont

Notices

where a person has a time limit for the filing of a document that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. In such circumstances, it will be the responsibility of the person filing the document to ensure that he or she is properly entitled to any needed extension of the time limit.

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:

- i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;
- ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;
- iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or
- iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

the period shall expire on the next subsequent day on which none of the said four circumstances exists.

Time period extensions under the Madrid Protocol and the Hague Agreement

If a period within which a communication must be received by the International Bureau of the World Intellectual Property Office would expire on a day on which the International

livrés. Par conséquent, si le délai pour le dépôt d'un document tombe un jour férié provincial ou territorial et qu'une personne le livre seulement le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement qui justifierait une prorogation du délai. Dans de telles circonstances, il incombe au déposant de s'assurer qu'il a droit à une telle prorogation.

Prolongations de délais prévus au Traité de coopération en matière de brevets

La règle 80.5 du Règlement d'exécution du PCT prévoit ce qui suit :

Si un délai quelconque pendant lequel un document ou une taxe doit parvenir à un office national ou à une organisation intergouvernementale expire un jour :

- i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;
- ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;
- iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou
- iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

Le délai prend fin le premier jour suivant auquel aucune de ces quatre circonstances n'existe plus.

Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye

Si un délai à l'intérieur duquel une communication doit être reçue par le Bureau international de l'Organisation mondiale de propriété intellectuelle expire un jour où le Bureau international n'est pas ouvert au public, le délai expirera lors du

Avis

Bureau is not open to the public, it will expire on the next subsequent day on which the International Bureau is open. Likewise, if the period within which a communication (such as a notification of refusal of protection) must be sent by CIPO to the International Bureau would expire on a day on which CIPO is not open to the public, it will expire on the next subsequent day on which CIPO is open.

A list of the days on which the International Bureau is closed to the public during the current and the following calendar year is available on the [WIPO website](#).

6. Procedures in Case of an Unexpected Office Closure at CIPO

In case of unforeseen circumstances, CIPO will attempt to remain open to the public and ensure that essential service to our clients continues with the least possible disruption or delay.

In accordance with paragraph 27.01(n) of the Patent Rules, paragraph 15(n) of the Trademarks Regulations and paragraph 36(n) of the Industrial Design Regulations, whenever CIPO is closed to the public, for all or part of a day during ordinary business hours, including closures due to extraordinary circumstances, time periods will be extended to the next day that is not a prescribed or a designated day and where CIPO is open to the public.

For Copyright and Integrated Circuit Topography, if CIPO is closed to the public due to extraordinary circumstances, CIPO considers all time limits to be extended until the next day that it is open to the public. In such situations, mail delivered to CIPO or to designated establishments will be considered to be received on the date that CIPO re-opens to the public, with the exception of correspondence addressed to the Registrar of Topographies.

In view of the date-sensitive nature of intellectual property (IP), clients are advised to address important deadlines ahead of time to minimize the risk of affecting their IP rights. For the purposes of such deadlines, unless otherwise notified, clients should assume that all due dates remain in effect.

When possible during an emergency, information and search systems will continue to be available on our website; however, services provided through the Client Service Centre and other support areas within CIPO may be temporarily unavailable. Should an emergency occur, CIPO will post information with respect to [service interruptions](#) on our website as it becomes available and as circumstances permit.

Clients are **strongly encouraged** to send date-sensitive material through Canada Post by Registered Mail™ or Xpresspost™ or to use electronic means using the relevant links set out in [section 2.2](#) of these correspondence procedures. Documents may continue to be faxed to CIPO at 819-953-CIPO (953-2476). Date-sensitive material requiring fee

premier jour suivant où le Bureau international est ouvert au public. Similairement, si un délai à l'intérieur duquel une communication (tel qu'une notification de refus de la protection) doit être envoyée par l'OPIC au Bureau international expire un jour où les bureaux de l'OPIC sont fermés au public, ce délai expirera lors du premier jour suivant la réouverture de l'OPIC.

Une liste des jours pendant lesquels le Bureau international est fermé au public pendant l'année civile en cours et à venir est disponible [sur le site web de l'OMPI](#).

6. Procédures en cas de fermeture des bureaux

Lors de circonstances imprévues, l'OPIC s'efforcera de demeurer ouvert au public et d'assurer un service essentiel à ses clients, et ce, avec le moins d'interruption ou de retard possible.

Conformément à l'alinéa 27.01n) des Règles sur les Brevets, l'alinéa 15n) du Règlement sur les marques de commerce et de l'alinéa 36n) du Règlement sur les dessins industriels, lorsque les bureaux de l'OPIC sont fermés au public pendant toute ou une partie des heures normales d'ouverture, y compris une fermeture en raison de circonstances extraordinaires, les délais seront prorogés au jour suivant qui ne sera pas un jour prescrit ou un jour désigné et où l'OPIC est ouvert au public.

Pour les droits d'auteur et les topographies de circuits intégrés, si les bureaux de l'OPIC sont fermés au public en raison de circonstances extraordinaires, l'OPIC considère que tous les délais sont prorogés au prochain jour d'ouverture au public. Dans de telles circonstances, le courrier livré à l'OPIC ou à des établissements désignés sera considéré avoir été reçu à la date du jour de la réouverture de l'OPIC au public, à l'exception de la correspondance adressée au registraire des topographies.

Étant donné **l'importance que revêtent les délais** en matière de propriété intellectuelle (PI), il est recommandé aux clients de minimiser les risques pouvant nuire à leurs droits en matière de PI en tenant compte à l'avance des dates limites importantes. En ce qui a trait aux délais prescrits, les clients doivent respecter toutes les dates d'échéance, à moins d'avis contraire.

En situation d'urgence, les systèmes d'information et de recherche resteront, dans la mesure du possible, accessibles à partir de notre site Web. Toutefois, les services fournis par le Centre de services à la clientèle et les autres services de soutien de l'OPIC pourraient temporairement ne pas être offerts. En situation d'urgence, l'OPIC va publier les renseignements nécessaires sur notre [page d'interruptions des services](#), lorsque ceux-ci seront disponibles et les circonstances le permettront.

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé^{MC}, par Xpresspost^{MC} ou par voie électronique en utilisant les liens spécifiés à [l'article 2.2](#) des présentes procédures de correspondance. Il est toujours

Notices

payment that is sent by fax must be accompanied by a [VISA™](#), [MasterCard™](#), or [American Express™](#) credit card number, or [CIPO deposit account number](#).

Please note that there may also be instances in which the designated offices may be temporarily closed, yet CIPO remains open to the public. In such situations, it remains **the responsibility of CIPO's clients** to ensure that all deadlines are respected.

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office

Patents, Industrial Design, Copyright and Integrated Circuit Topography

The legislative framework in relation with the abovementioned types of intellectual property does not provide CIPO with the flexibility to extend deadlines when it is open to the public but clients are unable to communicate with the Office.

In these situations it remains the responsibility of clients to ensure that all deadlines are respected.

Trademarks

The Trademarks Act and Regulations allow clients to request a retroactive extension of time when a due date has been missed due to a force majeure type situation. In order for a retroactive extension of time to be granted, the Registrar of Trademarks must be satisfied that the failure to do the act or apply for an extension of time before the original due date was not reasonably avoidable. A prescribed fee is required in certain cases.

8. Intellectual property acts, rules and regulations

- [Copyright Act](#)
- [Copyright Regulations](#)
- [Industrial Design Act](#)
- [Industrial Design Regulations](#)
- [Integrated Circuit Topography Act](#)
- [Integrated Circuit Topography Regulations](#)
- [Interpretation Act](#)
- [Patent Act](#)

possible de transmettre par télécopieur des documents à l'OPIC en composant le 819-953-OPIC (953-6742). Cependant, les documents assujettis à des délais pour lesquels des droits ou taxes sont exigés, qui sont envoyés par télécopieur, doivent être accompagnés [d'un numéro de carte VISA^{MC}](#), [Mastercard^{MC}](#) ou [American Express^{MC}](#) ou [d'un numéro de compte de dépôt à l'OPIC](#).

Veillez noter qu'il pourrait y avoir des cas où les bureaux régionaux seraient fermés temporairement, mais où l'OPIC resterait ouvert au public. Le cas échéant, **les clients de l'OPIC demeurent responsables** du respect de tous les échéanciers.

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office

Brevets, dessins industriels, droit d'auteur et topographies de circuits intégrés

Le cadre législatif en rapport aux types de propriété intellectuelle mentionnés ci-haut ne donne pas à l'OPIC la flexibilité de proroger les délais lorsque l'Office est ouvert au public, mais les clients sont dans l'impossibilité de communiquer avec le l'Office.

Dans une telle situation, les clients demeurent tenus de veiller à ce que les échéances soient respectées.

Marques de commerce

La Loi sur les marques de commerce et le Règlement sur les marques de commerce permettent aux clients de demander une prolongation rétroactive lorsqu'un délai n'a pas été respecté en raison d'un cas de force majeure. Pour qu'une prolongation de délai rétroactive soit accordée, le registraire des marques de commerce doit être convaincu que l'omission d'accomplir l'acte ou de demander la prorogation avant la date initiale d'échéance n'était pas raisonnablement évitable. Un droit prescrit est exigé dans certains cas.

8. Lois, règles et règlements sur la propriété intellectuelle

- [Loi sur le droit d'auteur](#)
- [Règlement sur le droit d'auteur](#)
- [Loi sur les dessins industriels](#)
- [Règlement sur les dessins industriels](#)
- [Loi sur les topographies de circuits intégrés](#)
- [Règlement sur les topographies de circuits intégrés](#)
- [Loi d'interprétation](#)
- [Loi sur les brevets](#)
- [Règles sur les brevets](#)

Avis

- [Patent Rules](#)
- [Regulations under the PCT](#)
- [Trademarks Act](#)
- [Trademarks Regulations](#)

- [Règlement d'exécution du PCT](#)
- [Loi sur les marques de commerce](#)
- [Règlement sur les marques de commerce](#)

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of May 14, 2024 contains applications open to public inspection from April 28, 2024 to May 4, 2024.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 14 mai 2024 contient les demandes disponibles au public pour consultation pour la période du 28 avril 2024 au 4 mai 2024.

Canadian Patents Issued

May 14, 2024

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[11] **2,744,442**
[13] C

[51] **Int.Cl. G06Q 40/04 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CALCULATING A SPORTS-BASED FINANCIAL INDEX AND DERIVING DERIVATIVE CONTRACTS THEREFROM**
[54] **SYSTEMES ET METHODES POUR CALCULER UN INDICE FINANCIER SPORTIF ET AINSI DERIVER DES CONTRATS**
[72] RABALAIS, CHRISTOPHER PAUL, US
[72] BROWN-HRUSKA, SHARON JOY, US
[72] OZGIT, EMIN ALPER, US
[72] GUTH, LOUIS, US
[72] DURAN, JR., CARLOS MIGUEL, CR
[73] CRYSTAL WORLD HOLDINGS, INC., US
[85] 2011-05-20
[86] 2009-12-22 (PCT/US2009/069276)
[87] (WO2010/075435)
[30] US (61/139,809) 2008-12-22

[11] **2,794,103**
[13] C

[51] **Int.Cl. G06F 7/00 (2006.01) G06F 16/906 (2019.01)**
[25] EN
[54] **AUTO-CLASSIFICATION SYSTEM AND METHOD WITH DYNAMIC USER FEEDBACK**
[54] **SYSTEME D'AUTO-CLASSIFICATION ET PROCEDE POUR UNE RETROACTION D'UTILISATEUR DYNAMIQUE**
[72] SIMARD, CHARLES-OLIVIER, CA
[72] BOWYER, ALEX, CA
[72] LECLERC, DANIEL, CA
[72] MOLLOY, STEVE, CA
[73] OPEN TEXT CORPORATION, CA
[86] (2794103)
[87] (2794103)
[22] 2012-10-31

[11] **2,876,282**
[13] C

[51] **Int.Cl. G06F 17/00 (2019.01) H04L 67/306 (2022.01) H04L 67/52 (2022.01) G06F 3/01 (2006.01) H04L 12/12 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING BALANCE NOTIFICATIONS TO CONNECTED DEVICES**
[54] **SYSTEMES ET PROCEDES POUR FOURNIR DES NOTIFICATIONS SUR SOLDE DE COMPTE A DES DISPOSITIFS CONNECTES**
[72] DEL VECCHIO, ORIN, CA
[72] LALL, NIGEL, CA
[72] CHAN, PAUL MON-WAH, CA
[72] BARNETT, JONATHAN K., CA
[72] AGGARWAL, GARIMA, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2876282)
[87] (2876282)
[22] 2015-01-05
[30] US (61/923,355) 2014-01-03
[30] US (14/585,069) 2014-12-29

[11] **2,881,394**
[13] C

[51] **Int.Cl. A61K 35/34 (2015.01) C12N 5/071 (2010.01) C12N 5/077 (2010.01) C12N 15/113 (2010.01) A61K 9/00 (2006.01) A61K 31/7105 (2006.01) A61P 9/00 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **EXOSOMES AND MICRO-RIBONUCLEIC ACIDS FOR TISSUE REGENERATION**
[54] **EXOSOMES ET ACIDES MICRO-RIBONUCLEIQUES POUR LA REGENERATION DE TISSUS**
[72] MARBAN, EDUARDO, US
[72] CHENG, KE, US
[72] IBRAHIM, AHMED, US
[73] CEDARS-SINAI MEDICAL CENTER, US
[85] 2015-02-06
[86] 2013-08-13 (PCT/US2013/054732)
[87] (WO2014/028493)
[30] US (61/682,666) 2012-08-13

[11] **2,883,784**
[13] C

[51] **Int.Cl. A61K 9/51 (2006.01) A61K 9/133 (2006.01) A61K 38/18 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **BOLAAMPHIPHILIC COMPOUNDS, COMPOSITIONS AND USES THEREOF**
[54] **COMPOSES BOLAAMPHIPHILES, COMPOSITIONS ET LEURS UTILISATIONS**
[72] LINDER, CHARLES, US
[72] HELDMAN, ELIAHU, US
[72] GRINBERG, SARINA, US
[73] LAUREN SCIENCES LLC, US
[85] 2015-03-03
[86] 2013-09-04 (PCT/US2013/057956)
[87] (WO2014/039501)
[30] US (61/696,789) 2012-09-04

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[11] **2,884,895**
[13] C

[51] **Int.Cl. C12N 9/02 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **HPPD VARIANTS AND METHODS OF USE**
[54] **VARIANTS HPPD ET LEURS PROCEDES D'UTILISATION**
[72] POREE, FABIEN, DE
[72] HEINRICHS, VOLKER, DE
[72] LANGE, GUDRUN, DE
[72] LABER, BERND, DE
[72] PETERS, CHERYL, US
[72] SCHOUTEN, LAURA, US
[73] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US
[85] 2015-03-12
[86] 2013-09-13 (PCT/US2013/059598)
[87] (WO2014/043435)
[30] US (61/701,037) 2012-09-14
[30] US (61/766,057) 2013-02-18
[30] US (61/790,404) 2013-03-15

[11] **2,900,022**
[13] C

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6886 (2018.01)**
[25] EN
[54] **NON-INVASIVE DIAGNOSTIC METHOD FOR DIAGNOSING BLADDER CANCER**
[54] **PROCEDE DE DIAGNOSTIC NON INVASIF POUR DIAGNOSTIQUER LE CANCER DE LA VESSIE**
[72] ALCARAZ ASENSIO, ANTONIO, ES
[72] MENGUAL BRICHS, LOURDES, ES
[72] RIBAL CAPARROS, MARIA JOSE, ES
[72] LOZANO SALVATELLA, JUAN JOSE, ES
[73] FINA BIOTECH, S.L., ES
[85] 2015-07-31
[86] 2014-01-31 (PCT/EP2014/051939)
[87] (WO2014/118334)
[30] EP (13382030.8) 2013-01-31

[11] **2,906,231**
[13] C

[51] **Int.Cl. C12Q 1/02 (2006.01) C12Q 1/6844 (2018.01) C12M 1/34 (2006.01) G01N 33/567 (2006.01)**
[25] EN
[54] **MICROFLUIDIC DEVICES AND METHODS FOR USE THEREOF IN MULTICELLULAR ASSAYS OF SECRETION**
[54] **DISPOSITIFS MICROFLUIDIQUES ET PROCEDES D'UTILISATION CORRESPONDANTS DANS DES DOSAGES MULTICELLULAIRES DE SECRETION**
[72] RICICOVA, MARKET, CA
[72] HEYRIES, KEVIN ALBERT, CA
[72] ZAHN, HANS, DE
[72] PETRIV, OLEH, CA
[72] LECAULT, VERONIQUE, CA
[72] SINGHAL, ANUPAM, CA
[72] HANSEN, CARL L. G., CA
[72] NELSON, BRAD, CA
[72] NIELSEN, JULIE, CA
[72] LISAINGO, KATHLEEN, CA
[72] DA COSTA, DANIEL J., CA
[73] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2015-09-14
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[87] (WO2014/153651)
[30] US (61/806,329) 2013-03-28

[11] **2,906,682**
[13] C

[51] **Int.Cl. A61K 31/722 (2006.01) A61P 17/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING POLY(ACETYL,ARGINYL) GLUCOSAMINE (PAAG) AND USE THEREOF FOR WOUND HEALING**
[54] **COMPOSITIONS COMPRENANT DE LA POLY(ACETYL, ARGINYL)GLUCOSAMINE (PAAG) ET LEUR UTILISATION POUR LA CICATRISATION DE PLAIES**
[72] BAKER, SHENDA M., US
[72] WIESMANN, WILLIAM P., US
[72] TOWNSEND, STACY M., US
[73] SYNEDGEN INC., US
[85] 2015-09-14
[86] 2014-03-14 (PCT/US2014/028120)
[87] (WO2014/172040)
[30] US (61/799,751) 2013-03-15

[11] **2,912,935**
[13] C

[51] **Int.Cl. G06K 19/073 (2006.01) G06Q 20/34 (2012.01)**
[25] FR
[54] **GENERATION AND DISPLAY PROCESS FOR A CRYPTOGRAM FOR A PAYMENT CARD, PAYMENT CARD**
[54] **PROCEDE DE GENERATION ET D'AFFICHAGE D'UN CRYPTOGRAMME POUR UNE CARTE DE PAIEMENT, CARTE DE PAIEMENT**
[72] GAUTIER, SERGE, FR
[73] CB INVESTISSEMENTS, FR
[86] (2912935)
[87] (2912935)
[22] 2015-11-19
[30] FR (FR 14 61296) 2014-11-21

[11] **2,918,765**
[13] C

[51] **Int.Cl. H04W 4/029 (2018.01) H04W 64/00 (2009.01) H04W 4/90 (2018.01) G08G 1/127 (2006.01) H04N 5/76 (2006.01)**
[25] EN
[54] **MOBILE ASSET CELLULAR DEVICE TRANSMISSION DETECTION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DETECTION DE TRANSMISSION DE DISPOSITIF CELLULAIRE D'EQUIPEMENT MOBILE**
[72] JORDAN, LAWRENCE B., US
[72] HEILMANN, MICHAEL, US
[72] MATTA, LISA A., US
[72] SCHMIDT, MICHAEL, US
[73] WI-TRONIX, LLC, US
[85] 2016-01-19
[86] 2014-09-09 (PCT/US2014/054768)
[87] (WO2015/038534)
[30] US (61/875,737) 2013-09-10
[30] US (14/481,290) 2014-09-09

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[11] **2,919,226**
[13] C

[51] **Int.Cl. C07C 229/12 (2006.01) A61K 9/50 (2006.01) A61K 47/18 (2017.01) A61K 47/24 (2006.01) A61K 47/28 (2006.01) A61K 48/00 (2006.01) C07H 21/02 (2006.01) C12N 15/11 (2006.01) C12N 15/88 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR DELIVERING MESSENGER RNA**

[54] **COMPOSITIONS ET PROCEDES POUR L'ADMINISTRATION D'ARN MESSENGER**

[72] HEYES, JAMES, CA

[72] PALMER, LORNE R., CA

[72] REID, STEPHEN P., CA

[72] YAWORSKI, EDWARD D., CA

[72] MACLACHLAN, IAN, CA

[72] WOOD, MARK, CA

[72] MARTIN, ALAN D., CA

[73] ARBUTUS BIOPHARMA CORPORATION, CA

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[30] US (61/857,573) 2013-07-23

[30] US (61/943,856) 2014-02-24

[11] **2,919,702**
[13] C

[51] **Int.Cl. A61G 13/02 (2006.01) A61G 13/10 (2006.01)**

[25] EN

[54] **PATIENT PLATFORM CONNECTION DEVICE**

[54] **DISPOSITIF DE RACCORDEMENT DE PLATEFORME DE SUPPORT DE PATIENT**

[72] HOEL, STEPHEN, US

[72] HIRTH, GREGORY, US

[73] MIZUHO ORTHOPEDIC SYSTEMS, INC, US

[86] (2919702)

[87] (2919702)

[22] 2016-02-02

[30] US (14/616,530) 2015-02-06

[11] **2,920,785**
[13] C

[51] **Int.Cl. H05K 5/02 (2006.01)**

[25] EN

[54] **REMOTE CONTROL DEVICE**

[54] **DISPOSITIF DE CONTROLE A DISTANCE**

[72] KASS, RONALD R., US

[72] BARR, DOUGLAS J., US

[72] KOVACH, JOSEPH E., US

[72] DANN, KEVIN M., US

[72] PARRETT, DAVID J., US

[72] BRACE, CLARK, US

[72] BOULD, FRED, US

[72] CASO, JAIME, US

[73] HUNTER DOUGLAS INC., US

[86] (2920785)

[87] (2920785)

[22] 2016-02-12

[30] US (62/115,947) 2015-02-13

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[51] **Int.Cl. B60R 9/00 (2006.01) B60F 5/00 (2006.01)**

[25] EN

[54] **ADJUSTABLE RACK APPARATUS**

[54] **APPAREIL DE SUPPORT REGLABLE**

[72] BOGUSLAWSKI, JOHN, US

[73] BOSSKI, INC., US

[86] (2921062)

[87] (2921062)

[22] 2016-02-16

[11] **2,923,705**
[13] C

[51] **Int.Cl. A61K 31/16 (2006.01) A61K 31/17 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING CITRULLINE AND LEUCINE AND THEIR USE IN THE TREATMENT OF DIABETES AND METABOLIC SYNDROME**

[54] **COMPOSITIONS COMPRENANT DE LA CITRULLINE ET DE LA LEUCINE ET LEUR UTILISATION POUR TRAITER LE DIABETE ET LE SYNDROME METABOLIQUE**

[72] MOINARD, CHRISTOPHE, FR

[72] VENTURA, GABRIELLE, FR

[72] BREUILLE, DENIS, CH

[72] DARIMONT-NICOLAU, CHRISTIAN, CH

[72] CYNOBER, LUC, FR

[73] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2016-03-08

[86] 2014-10-03 (PCT/EP2014/071230)

[87] (WO2015/052086)

[30] US (61/888,636) 2013-10-09

[11] **2,926,835**
[13] C

[51] **Int.Cl. E05B 47/00 (2006.01)**

[25] EN

[54] **REDUCED POWER CONSUMPTION ELECTROMAGNETIC LOCK**

[54] **VERROU ELECTROMAGNETIQUE A CONSOMMATION REDUITE**

[72] DAVIS, BRETT L., US

[72] SHAFFER, RANDALL, US

[73] HANCHETT ENTRY SYSTEMS, INC., US

[86] (2926835)

[87] (2926835)

[22] 2016-04-13

[30] US (62/293,185) 2016-02-09

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[11] **2,928,614**
[13] C

[51] **Int.Cl. G07F 17/32 (2006.01) G07C 11/00 (2006.01)**
[25] EN
[54] **BIOMETRIC ACCESS SENSITIVITY**
[54] **SYSTEME D'ACCES BIOMETRIQUE SENSIBLE**
[72] ALDERUCCI, DEAN P., US
[72] PAPAGEORGIOU, ANTONIO, US
[72] ASHER, JOSEPH M., US
[73] CFPH, LLC, US
[86] (2928614)
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[22] 2007-11-14
[62] 2,669,836
[30] US (11/559,829) 2006-11-14
[30] US (11/559,484) 2006-11-14
[30] US (11/559,933) 2006-11-15

[11] **2,930,695**
[13] C

[51] **Int.Cl. A61K 39/21 (2006.01) A61P 31/18 (2006.01) A61P 37/04 (2006.01) C07K 14/16 (2006.01) C12N 15/49 (2006.01)**
[25] EN
[54] **HIV-1 ENV DNA VACCINE PLUS PROTEIN BOOST**
[54] **VACCIN ADN ENV PLUS RAPPEL AVEC PROTEINE CONTRE LE VIH-1**
[72] WEINER, DAVID B., US
[72] MUTHUMANI, KARUPPIAH, US
[72] WISE, MEGAN, US
[72] YAN, JIAN, US
[72] BRODERICK, KATE, US
[73] INOVIO PHARMACEUTICALS, INC., US
[73] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2016-05-13
[86] 2014-11-06 (PCT/US2014/064278)
[87] (WO2015/073291)
[30] US (61/904,416) 2013-11-14

[11] **2,936,727**
[13] C

[51] **Int.Cl. B25F 5/00 (2006.01) B25F 5/02 (2006.01)**
[25] EN
[54] **LATCHING MECHANISM FOR A BATTERY PACK**
[54] **MECANISME DE VERROU DESTINE A UN BLOC PILE**
[72] ALTENBURGER, RYAN, US
[72] GREGORICH, BRENT, US
[72] BUCKNER, MICHAEL, US
[73] AC (MACAO COMMERCIAL OFFSHORE) LIMITED, CN
[86] (2936727)
[87] (2936727)
[22] 2016-07-21
[30] US (62/195,667) 2015-07-22

[11] **2,940,145**
[13] C

[51] **Int.Cl. C10G 1/04 (2006.01) C10C 3/08 (2006.01)**
[25] EN
[54] **PROCESS AND APPARATUS FOR SPLITTING VAPOUR STREAMS**
[54] **PROCEDE ET APPAREIL DE DIVISION DE FLUX DE VAPEUR**
[72] WU, JIANGYING, CA
[72] PAINE, RANDY, CA
[72] GARNER, WILLIAM NICHOLAS, CA
[73] CANADIAN NATURAL RESOURCES LIMITED, CA
[86] (2940145)
[87] (2940145)
[22] 2016-08-25
[30] CA (2,901,863) 2015-08-28

[11] **2,942,324**
[13] C

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 15/113 (2010.01) A61K 38/17 (2006.01) A61P 27/02 (2006.01) C12N 15/67 (2006.01) C12N 15/864 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **A MODIFIED MGLUR6 PROMOTER AND METHODS OF USE**
[54] **PROMOTEUR MGLUR6 MODIFIE ET PROCEDES D'UTILISATION**
[72] PAN, ZHUO-HUA, US
[72] LU, QI, US
[72] GANJAWALA, TUSHAR H., US
[72] CHENG, JRGANG, US
[73] WAYNE STATE UNIVERSITY, US
[85] 2016-09-09
[86] 2015-03-11 (PCT/US2015/019985)
[87] (WO2015/138616)
[30] US (61/951,360) 2014-03-11

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[13] C

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[25] EN
[54] **ADVANCED FIRST ENTRY MODEL FOR SURGICAL SIMULATION**
[54] **MODELE AVANCE DE PREMIERE ENTREE POUR LA SIMULATION CHIRURGICALE**
[72] WACHLI, SERENE, US
[72] HOFSTETTER, GREGORY K., US
[72] BLACK, KATIE, US
[72] POULSEN, NIKOLAI, US
[72] HOLMES, HEIDI, US
[72] FELSINGER, NATASHA, US
[72] BRESLIN, TRACY, US
[72] PRAVONGVIENGKHAM, KENNII, US
[72] PRAVONG, BOUN, US
[72] BOLANOS, EDUARDO, US
[72] FALKENSTEIN, ZORAN, US
[72] HART, CHARLES, C., US
[72] TALWAR, TINA, US
[73] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2016-09-12
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[87] (WO2015/138982)
[30] US (61/952,289) 2014-03-13

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[13] C

[51] **Int.Cl. G01W 1/14 (2006.01)**
[25] EN
[54] **A DEPTH GAUGE**
[54] **UNE JAUGE DE PROFONDEUR**
[72] BLACKLOCK, OLIVER S., GB
[73] GILL CORPORATE LIMITED, GB
[86] (2946768)
[87] (2946768)
[22] 2016-10-28

[11] **2,948,122**
[13] C

[51] **Int.Cl. C12N 15/09 (2006.01) C12N 1/15 (2006.01) C12N 1/16 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 9/04 (2006.01) C12P 5/02 (2006.01)**
[25] EN
[54] **MUTANT ENZYME AND PRODUCTION METHOD FOR TERPENOID USING SAID MUTANT ENZYME**
[54] **ENZYME MUTANTE ET PROCEDE DE FABRICATION D'UN TERPENOIDE METTANT EN OEUVRE CETTE ENZYME MUTANTE**
[72] TAKEHANA, TOSHIHIKO, JP
[72] KOIKE, SEIJI, JP
[72] KUZUYAMA, TOMOHISA, JP
[73] ADEKA CORPORATION, JP
[85] 2016-11-04
[86] 2015-04-09 (PCT/JP2015/061168)
[87] (WO2015/156369)
[30] JP (2014-080242) 2014-04-09

[11] **2,948,241**
[13] C

[51] **Int.Cl. G06F 21/62 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRACKING AND TRANSFERRING OWNERSHIP OF CONNECTED DEVICES USING BLOCKCHAIN LEDGERS**
[54] **SYSTEMES ET METHODE DE SUIVI ET DE TRANSFERT DE LA PROPRIETE DE DISPOSITIFS CONNECTES AU MOYEN DE REGISTRES A CHAINE DE BLOCS**
[72] HALDENBY, PERRY AARON JONES, CA
[72] MAHADEVAN, RAJAN, CA
[72] LEE, JOHN JONG SUK, CA
[72] DEL VECCHIO, ORIN, CA
[72] CHAN, PAUL MON-WAH, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2948241)
[87] (2948241)
[22] 2016-11-10
[30] US (14/936,833) 2015-11-10

[11] **2,949,903**
[13] C

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/072 (2006.01)**
[25] EN
[54] **MULTI-FIRE STAPLER WITH ELECTRONIC COUNTER, LOCKOUT, AND VISUAL INDICATOR**
[54] **AGRAFEUSE MULTICOUP DOTE E D'UN COMPTEUR ELECTRONIQUE, D'UN VERROU ET D'UN INDICATEUR VISUEL**
[72] MARCZYK, STANISLAW, US
[72] RACENET, DAVID, US
[72] KOSTRZEWSKI, STANISLAW, US
[72] IRKA, PHILIP, US
[73] COVIDIEN LP, US
[86] (2949903)
[87] (2949903)
[22] 2016-11-29
[30] US (14/973,018) 2015-12-17

[11] **2,952,482**
[13] C

[51] **Int.Cl. G06Q 10/087 (2023.01) G06Q 10/08 (2023.01) G06Q 30/02 (2023.01) G06Q 30/0251 (2023.01) G06K 7/10 (2006.01) G06K 7/14 (2006.01) G06K 17/00 (2006.01) G08B 13/24 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MONITORING FEATURED PRODUCT INVENTORY**
[54] **SYSTEMES ET PROCEDES POUR SURVEILLER LES STOCKS DE PRODUITS PRESENTES**
[72] JONES, MATTHEW A., US
[72] JONES, NICOLAUS A., US
[72] TAYLOR, ROBERT J., US
[72] VASGAARD, AARON J., US
[73] WALMART APOLLO, LLC, US
[86] (2952482)
[87] (2952482)
[22] 2016-12-21
[30] US (62/275,567) 2016-01-06

[11] **2,957,359**
[13] C

[51] **Int.Cl. C12Q 1/70 (2006.01) C12Q 1/6844 (2018.01) C12Q 1/6858 (2018.01) C12Q 1/6888 (2018.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **METHODS OF DETECTING INFLUENZA**
[54] **METHODES DE DETECTION DE LA GRIPPE**
[72] MOKKAPATI, ANUPAMA, US
[72] BROWN, BRADLEY, US
[72] JONES, ROBERT, US
[73] CEPHEID, US
[85] 2017-02-06
[86] 2014-08-22 (PCT/US2014/052288)
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[11] **2,957,858**
[13] C

[51] **Int.Cl. E03B 9/02 (2006.01)**
[25] EN
[54] **HYDRANT ASSEMBLY**
[54] **ENSEMBLE DE BORNE INCENDIE**
[72] LEGGETT, JOHN ALBERT, CA
[72] JENKINS, KYLE WILLIAM, CA
[73] LEGGETT, JOHN ALBERT, CA
[73] JENKINS, KYLE WILLIAM, CA
[86] (2957858)
[87] (2957858)
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[11] **2,958,011**
[13] C

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[25] EN
[54] **LUBRICANT COMPRISING HYPOCHLORITE**
[54] **LUBRIFIANT COMPRENANT DE L'HYPOCHLORITE**
[72] RICHARDS, KURT, US
[72] HOOVER, ANDREW, US
[73] REOXCYN, LLC, US
[86] (2958011)
[87] (2958011)
[22] 2017-02-14
[30] US (15/158,442) 2016-05-18
[30] US (15/266,147) 2016-09-15
[30] US (PCT/US2016/056760) 2016-10-13

[11] **2,958,153**
[13] C

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[25] EN
[54] **LIFT AND PALLET**
[54] **APPAREIL DE LEVAGE ET PALETTE**
[72] KING, PHILIP A., US
[72] HASSELL, JON P., US
[72] APPS, WILLIAM P., US
[72] KALINOWSKI, DANE GIN MUN, US
[73] REHRIG PACIFIC COMPANY, US
[86] (2958153)
[87] (2958153)
[22] 2017-02-16
[30] US (62/296,041) 2016-02-16
[30] US (62/362,576) 2016-07-14

[11] **2,958,964**
[13] C

- [51] **Int.Cl. H01T 4/16 (2006.01) H01T 2/00 (2006.01)**
[25] EN
[54] **GAS DISCHARGE TUBES AND METHODS AND ELECTRICAL SYSTEMS INCLUDING SAME**
[54] **TUBES DE DECHARGE DE GAZ ET METHODES, ET SYSTEMES ELECTRIQUES EN COMPORANT**
[72] ROZMAN, ROBERT, SI
[73] RIPD IP DEVELOPMENT LTD, CY
[86] (2958964)
[87] (2958964)
[22] 2017-02-23
[30] US (15/089294) 2016-04-01

[11] **2,960,305**
[13] C

- [51] **Int.Cl. B03B 9/06 (2006.01) C10L 5/46 (2006.01) C10L 5/48 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING ENGINEERED FUEL**
[54] **PROCEDE DE PRODUCTION DE CARBURANT ELABORE**
[72] TOBERMAN, RICHARD A., US
[73] WM INTELLECTUAL PROPERTY HOLDINGS, L.L.C., US
[85] 2017-03-03
[86] 2016-06-24 (PCT/US2016/039357)
[87] (WO2016/210326)
[30] US (62/184,163) 2015-06-24

[11] **2,962,212**
[13] C

- [51] **Int.Cl. H02K 15/00 (2006.01) F16C 32/04 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A LAMINATION STACK FOR USE IN AN ELECTRICAL MACHINE**
[54] **METHODE DE FABRICATION D'UN EMPILEMENT STRATIFIE DESTINE A UNE MACHINE ELECTRIQUE**
[72] DA SILVA, JOAQUIM, FR
[72] SALAHUN, ERWAN, FR
[72] TELLIER, BRUNO, FR
[73] SKF MAGNETIC MECHATRONICS, FR
[86] (2962212)
[87] (2962212)
[22] 2017-03-27
[30] DE (102016208744.4) 2016-05-20

[11] **2,963,720**
[13] C

- [51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **DOSAGE AND ADMINISTRATION OF NON-FUCOSYLATED ANTI-CD40 ANTIBODIES**
[54] **DOSAGE ET ADMINISTRATION DES ANTICORPS ANTI-CD40 NON FUCOSYLES**
[72] GARDAI, SHYRA, US
[72] LAW, CHE-LEUNG, US
[72] PENG, STANFORD, US
[72] YANG, JING, US
[72] NEFF-LAFORD, HALEY, US
[73] SEAGEN INC., US
[85] 2017-03-31
[86] 2015-10-29 (PCT/US2015/058108)
[87] (WO2016/069919)
[30] US (62/072,031) 2014-10-29
[30] US (62/134,955) 2015-03-18

[11] **2,964,316**
[13] C

- [51] **Int.Cl. A61K 35/62 (2006.01) A23L 33/10 (2016.01) A61P 25/28 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **TAU PROTEIN PRODUCTION ACCELERATOR, AND THERAPEUTIC OR PREVENTIVE AGENT AND THERAPEUTIC OR PREVENTIVE FOOD COMPOSITION FOR DISEASES CAUSED BY TAU PROTEIN DEFICIENCY**
[54] **AGENT POUR FAVORISER LA PRODUCTION DE PROTEINE TAU, ET MEDICAMENT THERAPEUTIQUE OU PROPHYLACTIQUE ET COMPOSITION DE PRODUIT ALIMENTAIRE THERAPEUTIQUE OU PROPHYLACTIQUE POUR UNE MA LADIE CAUSEE PAR UNE CARENCE EN PROTEINE TAU**
[72] ISHII, YOICHI, JP
[72] NEMOTO, TAKAYUKI, JP
[72] OKAMOTO, TAKESHI, JP
[73] WELL STONE CO., JP
[85] 2017-04-11
[86] 2015-11-02 (PCT/JP2015/080934)
[87] (WO2016/072392)
[30] JP (2014-223977) 2014-11-04

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[11] **2,964,555**
[13] C

[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **METHOD FOR DETECTION OF INTESTINAL, AND BLOOD-BRAIN BARRIER PERMEABILITY AND TESTING MATERIALS THERETO**

[54] **METHODE POUR LA DETECTION DE LA PERMEABILITE INTESTINALE ET DE LA BARRIERE HEMATOENCEPHALIQUE ET MATERIAUX D'ESSAI POUR CELLE-CI**

[72] VOJDANI, ARISTO, US

[73] CYREX LABORATORIES, LLC, US

[86] (2964555)

[87] (2964555)

[22] 2012-01-26

[62] 2,828,194

[30] US (61/437,244) 2011-01-28

[11] **2,967,755**
[13] C

[51] **Int.Cl. C09D 7/80 (2018.01) C09D 7/48 (2018.01) C09D 5/00 (2006.01) C09K 3/18 (2006.01)**

[25] EN

[54] **WEATHER-RESISTANT, FUNGAL-RESISTANT, AND STAIN-RESISTANT COATINGS AND METHODS OF APPLYING ON WOOD, MASONRY, OR OTHER POROUS MATERIALS**

[54] **RETELEMENTS RESISTANT AUX INTEMPERIES, AUX CHAMPIGNONS ET AUX TACHES ET PROCEDES D'APPLICATION SUR BOIS, MACONNERIE OU AUTRES MATERIAUX POREUX**

[72] CURRAN, SEAMUS, US

[72] LIAO, KANG-SHYANG, US

[72] ALLEY, NIGEL, US

[72] HALDAR, AMRITA, US

[72] WANG, ALEXANDER, US

[73] UNIVERSITY OF HOUSTON SYSTEM, US

[85] 2017-05-11

[86] 2015-11-12 (PCT/US2015/060361)

[87] (WO2016/077573)

[30] US (62/078,655) 2014-11-12

[30] US (62/078,582) 2014-11-12

[11] **2,967,968**
[13] C

[51] **Int.Cl. H02H 1/00 (2006.01) H01H 83/04 (2006.01)**

[25] EN

[54] **APPARATUSES AND METHODS FOR PASSIVE FAULT MONITORING OF CURRENT SENSING DEVICES IN PROTECTIVE CIRCUIT INTERRUPTERS**

[54] **APPAREILS ET PROCEDES DE SURVEILLANCE DE DEFAUT PASSIVE DE DISPOSITIFS DE DETECTION DE COURANT DANS DES DISJONCTEURS DE PROTECTION**

[72] MILLER, WILLIAM VERNON, III, US

[72] CHEN, EDWARD SHI, US

[72] MILLER, GARY MICHAEL, US

[73] HUBBELL INCORPORATED, US

[85] 2017-05-15

[86] 2015-11-19 (PCT/US2015/061472)

[87] (WO2016/085738)

[30] US (62/084,924) 2014-11-26

[11] **2,970,023**
[13] C

[51] **Int.Cl. C07H 21/04 (2006.01) C07K 16/00 (2006.01) C12N 5/16 (2006.01) C12N 15/13 (2006.01) C12N 15/85 (2006.01) C12P 19/34 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **A METHOD FOR PRODUCING A RECOMBINANT ALLOTYPESPECIFIC RABBIT MONOCLONAL ANTIBODY**

[54] **PROCEDE DE PRODUCTION D'ANTICORPS MONOCLONAL DE LAPIN RECOMBINE SPECIFIQUE D'UN ALLOTYP**

[72] COUTO, FERNANDO JOSE REBELO DO, GB

[73] ABCAM LIMITED, GB

[85] 2017-06-06

[86] 2015-12-10 (PCT/GB2015/053787)

[87] (WO2016/092315)

[30] GB (1422075.0) 2014-12-11

[11] **2,975,712**
[13] C

[51] **Int.Cl. B60N 3/02 (2006.01) B62D 33/00 (2006.01) B62D 63/04 (2006.01)**

[25] EN

[54] **STANCHION PADDING**

[54] **COUSSINAGE DE MONTANT**

[72] KLINCK, MICHAEL, CA

[72] STRONG, SCOTT, CA

[73] AMATRIMARA INC. C.O.B. RIVER DRIVE MANUFACTURING, CA

[73] BENTECH INC., US

[86] (2975712)

[87] (2975712)

[22] 2017-08-09

[30] US (62/378,771) 2016-08-24

[11] **2,971,725**
[13] C

[51] **Int.Cl. C08F 212/14 (2006.01) A61K 9/00 (2006.01) A61K 31/74 (2006.01) A61K 31/795 (2006.01) A61P 3/12 (2006.01) C08F 212/36 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING HYPERKALEMIA**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE L'HYPERKALIEMIE**

[72] CHARMOT, DOMINIQUE, US

[72] DAVIDSON, JAMES P., US

[72] LIN, FANGLING, US

[72] JACOBS, JEFFREY W., US

[72] BLINOVA, NATALIA, US

[72] LABONTE, ERIC, US

[72] LANGSETMO, INGRID, US

[72] BLANKS, ROBERT C., US

[73] ARDELYX, INC., US

[85] 2017-06-20

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[87] (WO2016/111855)

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[11] **2,974,262**
[13] C

[51] **Int.Cl. B65D 75/58 (2006.01) B65D 77/20 (2006.01)**

[25] EN

[54] **RECLOSABLE PACKAGING**

[54] **EMBALLAGE REFERMABLE**

[72] ROTHENBUHLER, MARTIN, CH

[73] AMCOR FLEXIBLES BURGENDORF GMBH, CH

[85] 2017-07-19

[86] 2016-12-20 (PCT/EP2016/081971)

[87] (WO2017/068203)

[30] EP (16151346.0) 2016-01-14

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[13] C

[51] **Int.Cl. B32B 3/06 (2006.01) B32B 17/00 (2006.01) E04B 2/72 (2006.01) E04C 2/26 (2006.01) E04C 2/32 (2006.01) E04C 2/38 (2006.01)**

[25] EN

[54] **GLASS PANEL RECONFIGURABLE WALL PANELS**

[54] **PANNEAUX DE PAROI RECONFIGURABLES DE PANNEAU DE VERRE**

[72] GOSLING, GEOFF, CA
[72] SMED, MOGENS, CA
[72] TISDALL, MARK, CA
[72] CASSIE, BRIAN, CA
[72] HOVDEBO, KENTON, CA
[73] DIRTT ENVIRONMENTAL SOLUTIONS, LTD., CA

[85] 2017-08-29
[86] 2016-03-16 (PCT/US2016/022634)
[87] (WO2016/149362)
[30] US (62/133,569) 2015-03-16
[30] US (62/175,072) 2015-06-12

[11] **2,978,976**
[13] C

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61P 1/02 (2006.01) A61P 19/02 (2006.01) A61P 19/08 (2006.01) A61P 19/10 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **ANTI-SCLEROSTIN ANTIBODY, ANTIGEN BINDING FRAGMENT AND MEDICAL USE THEREOF**

[54] **ANTICORPS ANTI-SCLEROSTINE, FRAGMENT DE LIAISON A L'ANTIGENE ET UTILISATION MEDICALE ASSOCIEE**

[72] LIU, JIAJIAN, CN
[72] FU, YAYUAN, CN
[72] ZHANG, HAORYING, CN
[72] WANG, YIFANG, CN
[72] ZHANG, ZHEN, CN
[72] ZHANG, LING, CN
[72] CUI, DONGBING, CN
[72] ZHANG, LIANSHAN, CN
[72] TAO, WEIKANG, CN
[73] JIANGSU HENGRUI MEDICINE CO., LTD., CN

[73] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN

[85] 2017-09-07
[86] 2016-02-16 (PCT/CN2016/073857)
[87] (WO2016/145961)
[30] CN (201510112924.5) 2015-03-13

[11] **2,979,876**
[13] C

[51] **Int.Cl. F21K 9/60 (2016.01) F21K 9/00 (2016.01) F21S 8/08 (2006.01) F21V 11/00 (2015.01)**

[25] EN

[54] **LED LUMINAIRE**

[54] **LUMINAIRE DEL**

[72] POPPENHEIMER, TORI, US
[72] ZIOLKOWSKI, DAVID P., US
[73] AMERLUX, LLC, US

[86] (2979876)
[87] (2979876)
[22] 2017-09-22
[30] US (62/398369) 2016-09-22

[11] **2,980,289**
[13] C

[51] **Int.Cl. A61B 3/117 (2006.01)**

[25] EN

[54] **GONIOSCOPIC DEVICES**

[54] **DISPOSITIFS GONIOSCOPIQUES**

[72] KALINA, CHARLES RAYMOND, US
[72] BURNS, THOMAS W., US
[72] CALCATERRA, CHRIS, US
[72] COLLINS, EDWARD, US
[72] MCCAULEY, TIMOTHY, US
[72] HAFFNER, DAVID S., US
[72] HENDERSON, STEVEN M., US
[73] GLAUKOS CORPORATION, US

[85] 2017-09-19
[86] 2016-03-18 (PCT/US2016/023296)
[87] (WO2016/154066)
[30] US (62/136,376) 2015-03-20
[30] US (62/202,017) 2015-08-06

[11] **2,980,566**
[13] C

[51] **Int.Cl. G05B 19/042 (2006.01) F16K 31/00 (2006.01) F16K 37/00 (2006.01) G05B 11/42 (2006.01)**

[25] EN

[54] **INTEGRATED PROCESS CONTROLLER WITH LOOP AND VALVE CONTROL CAPABILITY**

[54] **ORGANE DE COMMANDE DE PROCESSUS INTEGRE AVEC CAPACITE DE COMMANDE DE BOUCLE ET VALVE**

[72] CARTWRIGHT, CARTER B., US
[72] BRANDAU, THOMAS A., US
[72] ANCTIL, JAMES, US
[72] MANDERNACH, JORDAN E., US
[73] FISHER CONTROLS INTERNATIONAL LLC, US

[85] 2017-09-21
[86] 2016-03-23 (PCT/US2016/023667)
[87] (WO2016/154242)
[30] US (62/137,197) 2015-03-23

[11] **2,980,991**
[13] C

[51] **Int.Cl. B21D 26/047 (2011.01) B21D 26/033 (2011.01) B21D 37/16 (2006.01)**

[25] EN

[54] **MOLDING DEVICE**

[54] **DISPOSITIF DE MOULAGE**

[72] SAIKA, MASAYUKI, JP
[72] ISHIZUKA, MASAYUKI, JP
[72] UENO, NORIEDA, JP
[73] SUMITOMO HEAVY INDUSTRIES, LTD., JP

[85] 2017-09-26
[86] 2016-03-25 (PCT/JP2016/059683)
[87] (WO2016/158778)
[30] JP (2015-070845) 2015-03-31

[11] **2,981,402**
[13] C

[51] **Int.Cl. A61B 5/349 (2021.01) G16H 50/20 (2018.01) A61B 5/35 (2021.01) A61B 5/366 (2021.01)**

[25] FR

[54] **METHOD AND SYSTEM FOR IDENTIFYING AN ISTHMUS IN A THREE-DIMENSIONAL MAP**

[54] **PROCEDE ET SYSTEME D'IDENTIFICATION D'UN ISTHME DANS UNE CARTOGRAPHIE TRIDIMENSIONNELLE**

[72] DE CHILLOU, CHRISTIAN, FR
[73] UNIVERSITE DE LORRAINE, FR
[73] CENTRE HOSPITALIER REGIONAL DE NANCY, FR

[85] 2017-09-29
[86] 2016-04-01 (PCT/EP2016/057237)
[87] (WO2016/156578)
[30] FR (1552901) 2015-04-03

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[11] **2,982,465**
[13] C
[51] **Int.Cl. C09K 15/04 (2006.01) C08F 2/40 (2006.01)**
[25] EN
[54] **STERICALLY HINDERED HYDROQUINONES AS ANTIFOULANTS FOR UNSATURATED MONOMERS**
[54] **HYDROQUINONES A ENCOMBREMENT STERIQUE EN TANT QU'AGENTS CONTRE L'ENCRASSEMENT POUR MONOMERES INSATURES**
[72] MASERE, JONATHAN, US
[72] COLORADO, RAMON, JR., US
[73] ECOLAB USA INC., US
[85] 2017-10-11
[86] 2016-04-19 (PCT/US2016/028239)
[87] (WO2016/172076)
[30] US (62/150,022) 2015-04-20

[11] **2,982,985**
[13] C
[51] **Int.Cl. H05B 47/105 (2020.01) B66D 1/28 (2006.01) B66D 3/26 (2006.01) F21V 33/00 (2006.01)**
[25] EN
[54] **LIGHTING AND SENSORY SYSTEM FOR A PULLING TOOL**
[54] **ECLAIRAGE ET SYSTEME CAPTEUR DESTINES A UN OUTIL DE REPECHAGE**
[72] FRETZ, DARREN G., US
[72] AVERILL, BRYAN, US
[72] CHRISTENSEN, KEVIN, US
[72] WENDLER, IAN, US
[72] HERAVI, OLIVER, US
[73] WARN INDUSTRIES, INC., US
[86] (2982985)
[87] (2982985)
[22] 2017-10-18
[30] US (62/417,813) 2016-11-04

[11] **2,983,413**
[13] C
[51] **Int.Cl. A61N 5/10 (2006.01) G21G 1/10 (2006.01) G21G 4/02 (2006.01) H05H 6/00 (2006.01)**
[25] EN
[54] **NEUTRON TARGET FOR BORON NEUTRON CAPTURE THERAPY**
[54] **CIBLE NEUTRON POUR THERAPIE DE CAPTURE DE NEUTRONS PAR LE BORE**
[72] PARK, WILLIAM H., US
[72] KONISHI, STEVEN P., US
[72] SMICK, THEODORE H., US
[72] SAKASE, TAKAO, US
[73] NEUTRON THERAPEUTICS LLC, US
[85] 2017-10-19
[86] 2016-05-05 (PCT/US2016/030963)
[87] (WO2016/179381)
[30] US (62/157,652) 2015-05-06

[11] **2,983,833**
[13] C
[51] **Int.Cl. G16B 30/00 (2019.01) C12Q 1/6809 (2018.01) G16B 20/00 (2019.01) C12Q 1/68 (2018.01) G01N 33/48 (2006.01)**
[25] EN
[54] **DIAGNOSTIC METHODS**
[54] **METHODES DE DIAGNOSTIC**
[72] ELTOUKHY, HELMY, US
[72] TALASAZ, AMIRALI, US
[73] GUARDANT HEALTH, INC., US
[85] 2017-10-24
[86] 2016-04-29 (PCT/US2016/030301)
[87] (WO2016/179049)
[30] US (62/155,755) 2015-05-01

[11] **2,983,938**
[13] C
[51] **Int.Cl. H01P 5/18 (2006.01)**
[25] EN
[54] **THRU-LINE DIRECTIONAL POWER SENSOR HAVING MICROSTRIP COUPLER**
[54] **CAPTEUR DE PUISSANCE DIRECTIONNEL A LIGNE TRAVERSANTE COMPORTANT UN COUPLEUR A MICRORUBAN**
[72] DUMMERMUTH, MARTIN, US
[73] BIRD TECHNOLOGIES GROUP, INC., US
[85] 2017-10-25
[86] 2016-04-28 (PCT/US2016/029897)
[87] (WO2016/176516)
[30] US (62/154,105) 2015-04-28

[11] **2,984,047**
[13] C
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **CONTROLLING AN AEROSOL-GENERATING SYSTEM**
[54] **COMMANDE D'UN SYSTEME DE GENERATION D'AEROSOL**
[72] HEDARCHET, STEPHANE
ANTONY, CH
[73] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2017-10-26
[86] 2016-05-23 (PCT/EP2016/061610)
[87] (WO2016/188967)
[30] EP (15169250.6) 2015-05-26

[11] **2,985,922**
[13] C
[51] **Int.Cl. H04W 72/40 (2023.01) H04W 72/543 (2023.01)**
[25] EN
[54] **ALLOCATING RESOURCES FOR A DEVICE-TO-DEVICE TRANSMISSION**
[54] **ATTRIBUTION DE RESSOURCES POUR TRANSMISSION DE DISPOSITIF A DISPOSITIF**
[72] VUTUKURI, ESWAR, GB
[72] FAURIE, RENE, FR
[72] SUZUKI, TAKASHI, JP
[73] BLACKBERRY LIMITED, CA
[85] 2017-11-14
[86] 2015-08-14 (PCT/GB2015/052357)
[87] (WO2016/181095)
[30] US (14/712,779) 2015-05-14

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[25] EN

[54] **HONEYCOMB SANDWICH SHEET OR PANEL, BASED ON POLYPROPYLENE, WITH A CENTRAL THERMOFORMED FILM**

[54] **FEUILLE OU PANNEAU SANDWICH EN NID D'ABEILLE A BASE DE POLYPROPYLENE COMPRENANT UN FILM CENTRAL THERMOFORME**

[72] PECCETTI, ERALDO, IT

[73] COLINES S.P.A., IT

[85] 2017-11-24

[86] 2016-06-06 (PCT/EP2016/062786)

[87] (WO2016/198354)

[30] IT (UB2015A001160) 2015-06-11

[11] **2,987,773**
[13] C

[51] **Int.Cl. C09K 8/02 (2006.01) C04B 16/04 (2006.01) C04B 16/06 (2006.01) C09K 8/512 (2006.01)**

[25] EN

[54] **DRILLING FLUIDS AND METHODS OF USE**

[54] **FLUIDES DE FORAGE ET LEURS PROCEDES D'UTILISATION**

[72] ROJAS, MARIO ROBERTO, US

[72] BALSAMO DE HERNANDEZ, VITTORIA, US

[73] ECOLAB USA INC., US

[85] 2017-11-29

[86] 2016-06-09 (PCT/US2016/036624)

[87] (WO2016/201061)

[30] US (62/174,300) 2015-06-11

[11] **2,988,338**
[13] C

[51] **Int.Cl. C07D 417/10 (2006.01) C07C 15/16 (2006.01) C07D 249/04 (2006.01) C07D 249/18 (2006.01) C07D 403/10 (2006.01)**

[25] EN

[54] **NRF2 REGULATORS**

[54] **REGULATEURS DE NRF2**

[72] KERNS, JEFFREY K, US

[72] CALLAHAN, JAMES FRANCIS, US

[72] YAN, HONGXING, US

[72] HEIGHTMAN, THOMAS DANIEL, GB

[72] GRIFFITHS-JONES, CHARLOTTE MARY, GB

[72] WOOLFORD, ALISON JO-ANNE, GB

[72] LI, TINDY, US

[72] LAKDAWALA SHAH, AMI, US

[72] DAVIS, RODERICK S., US

[72] NORTON, DAVID, GB

[72] GOODWIN, NICOLE CATHLEEN, US

[72] JIN, YUN, CN

[72] HAMILTON, PARIS L., US

[72] BOEHM, JEFFREY CHARLES, US

[73] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB

[73] **ASTEX THERAPEUTICS LIMITED, GB**

[85] 2017-12-05

[86] 2016-06-15 (PCT/CN2016/085806)

[87] (WO2016/202253)

[30] US (62/175,510) 2015-06-15

[11] **2,989,212**
[13] C

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[25] EN

[54] **MULTISTAGE PROCESS FOR THE SOLUTION POLYMERIZATION OF ETHYLENE**

[54] **PROCEDE MULTIETAGE POUR LA POLYMERISATION EN SOLUTION D'ETHYLENE**

[72] LACOMBE, YVES, CA

[72] CHISHOLM, P. SCOTT, CA

[72] BROWN, STEPHEN, CA

[73] NOVA CHEMICALS CORPORATION, CA

[86] (2989212)

[87] (2989212)

[22] 2017-12-18

[11] **2,989,956**
[13] C

[51] **Int.Cl. G01N 21/27 (2006.01) C09B 11/24 (2006.01) C09K 11/06 (2006.01) G01N 21/64 (2006.01) G01N 33/18 (2006.01)**

[25] EN

[54] **CALIBRATION METHOD FOR WATER HARDNESS MEASUREMENT**

[54] **PROCEDE D'ETALONNAGE DE MESURE DE LA DURETE DE L'EAU**

[72] LI, HUI, US

[72] KNOTH, ALEXANDRA, US

[72] SCHWARTZ, JOE, US

[72] WILSON, CHRISTOPHER BRANT, US

[72] KAHAIAN, ARTHUR, US

[73] ECOLAB USA INC., US

[85] 2017-12-15

[86] 2016-07-01 (PCT/US2016/040751)

[87] (WO2017/004553)

[30] US (62/187,559) 2015-07-01

[11] **2,990,947**
[13] C

[51] **Int.Cl. G01N 21/3504 (2014.01) G02B 6/136 (2006.01)**

[25] EN

[54] **A SENSOR DEVICE AND A METHOD OF DETECTING A COMPONENT IN GAS**

[54] **DISPOSITIF CAPTEUR ET PROCEDE DE DETECTION D'UN CONSTITUANT DANS UN GAZ**

[72] GYLFASON, KRISTINN B., SE

[72] SOHLSTROM, HANS, SE

[72] BRIANO, FLORIA OTTONELLO, SE

[72] STEMME, GORAN, SE

[73] SENSEAIR AB, SE

[85] 2017-12-27

[86] 2016-06-27 (PCT/SE2016/050631)

[87] (WO2017/003353)

[30] SE (1550898-9) 2015-06-29

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[11] **2,991,041**
[13] C

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 31/4985 (2006.01)**
[25] EN
[54] **CHEWABLE COMPOSITION COMPRISING A PHARMACEUTICALLY ACTIVE INGREDIENT**
[54] **COMPOSITION A MACHER COMPRENANT UN INGREDIENT PHARMACEUTIQUEMENT ACTIF**
[72] COLEMAN, DAN, US
[72] STANDLEY, STEVE, US
[73] VIRBAC CORPORATION, US
[85] 2017-12-28
[86] 2016-06-29 (PCT/US2016/040028)
[87] (WO2017/007654)
[30] US (14/791,996) 2015-07-06

[11] **2,991,920**
[13] C

[51] **Int.Cl. G02B 21/26 (2006.01) G02B 21/36 (2006.01) G02B 27/32 (2006.01) H02N 2/02 (2006.01)**
[25] EN
[54] **MULTIFOCAL METHOD AND APPARATUS FOR STABILIZATION OF OPTICAL SYSTEMS**
[54] **PROCEDE ET APPAREIL MULTIFOCAUX PERMETTANT UNE STABILISATION DES SYSTEMES OPTIQUES**
[72] CHOU, KENG, CA
[72] TAFTEH, REZA, CA
[73] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2018-01-10
[86] 2016-04-22 (PCT/CA2016/050474)
[87] (WO2016/168941)
[30] US (62/151,569) 2015-04-23

[11] **2,994,204**
[13] C

[51] **Int.Cl. H01F 27/40 (2006.01) H01F 27/24 (2006.01) H01F 27/28 (2006.01) H01G 4/005 (2006.01) H01G 4/008 (2006.01) H01G 4/228 (2006.01) H01G 4/30 (2006.01)**
[25] EN
[54] **INTEGRATED CAPACITOR AND INDUCTOR WITH LOW PARASITIC INDUCTANCE**
[54] **CONDENSATEUR ET BOBINE D'INDUCTANCE INTEGRES A FAIBLE INDUCTANCE PARASITE**
[72] LUDOIS, DANIEL COLIN, US
[72] SCHROEDERMEIER, ANDY LEE, US
[73] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2018-01-29
[86] 2016-08-04 (PCT/US2016/045496)
[87] (WO2017/030798)
[30] US (14/826,572) 2015-08-14

[11] **2,994,782**
[13] C

[51] **Int.Cl. B01D 1/00 (2006.01)**
[25] EN
[54] **EVAPORATOR**
[54] **EVAPORATEUR**
[72] TIEMANN, DAVID, DE
[72] SCHELHAAS, KARL-PETER, DE
[73] DIEHL AEROSPACE GMBH, DE
[86] (2994782)
[87] (2994782)
[22] 2018-02-12
[30] DE (102017001565.1) 2017-02-20

[11] **2,995,124**
[13] C

[51] **Int.Cl. A47K 10/36 (2006.01) A47K 10/38 (2006.01)**
[25] EN
[54] **AUTOMATED PRODUCT DISPENSERS AND RELATED METHODS FOR ISOLATING A DRIVE ASSEMBLY TO INHIBIT VIBRATION TRANSMISSION**
[54] **DISTRIBUTEURS DE PRODUIT AUTOMATISE ET PROCEDES ASSOCIES POUR L'ISOLEMENT D'UN ENSEMBLE D'ENTRAINEMENT POUR INHIBER LA TRANSMISSION DE VIBRATIONS**
[72] CITTADINO, ANTONIO MICHAEL, US
[72] PETERS, MARK EDWIN, US
[73] GPCP IP HOLDINGS LLC, US
[85] 2018-02-07
[86] 2016-09-14 (PCT/US2016/051591)
[87] (WO2017/048755)
[30] US (62/218,004) 2015-09-14

[11] **2,995,948**
[13] C

[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **BEVERAGE DISPENSER SYSTEM WITH INTEGRATED CARBONATOR**
[54] **SYSTEME DISTRIBUTEUR DE BOISSON AVEC CARBONATEUR INTEGRE**
[72] RUDICK, ARTHUR G., US
[73] THE COCA-COLA COMPANY, US
[85] 2018-02-16
[86] 2016-08-15 (PCT/US2016/047012)
[87] (WO2017/031047)
[30] US (62/207,094) 2015-08-19

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[11] **2,996,037**
[13] C

[51] **Int.Cl. C07C 17/10 (2006.01) C07C 17/25 (2006.01) C07C 17/38 (2006.01) C07C 19/01 (2006.01) C07C 21/04 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING C3 CHLORINATED ALKANE AND ALKENE COMPOUNDS**

[54] **PROCEDE DE PRODUCTION DE COMPOSES ALCENES ET ALCANES EN C3 CHLORES**

[72] ONDRUS, ZDENEK, CZ
[72] KUBICEK, PAVEL, CZ
[72] SLADEK, PETR, CZ
[73] SPOLCHEMIE ZEBRA, A.S., CS
[85] 2018-02-15
[86] 2016-08-16 (PCT/CZ2016/000091)
[87] (WO2017/028826)
[30] CZ (PV 2015-558) 2015-08-19
[30] CZ (PV 2015-858) 2015-12-03

[11] **2,997,018**
[13] C

[51] **Int.Cl. C01B 39/02 (2006.01) B01J 29/00 (2006.01) C01B 39/48 (2006.01)**

[25] EN

[54] **MOLECULAR SIEVE SSZ-91, METHODS FOR PREPARING SSZ-91, AND USES FOR SSZ-91**

[54] **TAMIS MOLECULAIRE SSZ-91, PROCEDES DE PREPARATION DE SSZ-91, ET UTILISATIONS DE SSZ-91**

[72] OJO, ADEOLA FLORENCE, US
[72] XIE, DAN, US
[72] ZHANG, YIHUA, US
[72] LEI, GUAN-DAO, US
[73] CHEVRON U.S.A. INC., US
[85] 2018-02-22
[86] 2016-08-11 (PCT/US2016/046614)
[87] (WO2017/034823)
[30] US (14/837,071) 2015-08-27
[30] US (14/837,087) 2015-08-27
[30] US (14/837,094) 2015-08-27
[30] US (14/837,108) 2015-08-27

[11] **2,997,376**
[13] C

[51] **Int.Cl. A61K 31/185 (2006.01) A61K 31/205 (2006.01) C07C 309/02 (2006.01)**

[25] EN

[54] **METHODS OF TREATING NEURODEGENERATIVE DISORDERS IN A PARTICULAR PATIENT POPULATION**

[54] **METHODES DE TRAITEMENT DE TROUBLES NEURODEGENERATIFS DANS UNE POPULATION SPECIFIQUE DE PATIENTS**

[72] ABUSHAKRA, SUSAN, US
[72] POWER, AIDAN, US
[72] TOLAR, MARTIN, US
[72] HEY, JOHN, US
[72] YU, JEREMY, US
[72] KOCIS, PETR, US
[73] ALZHEON, INC., US
[85] 2018-03-01
[86] 2016-09-09 (PCT/US2016/051091)
[87] (WO2017/044840)
[30] US (62/216,404) 2015-09-10
[30] US (62/290,287) 2016-02-02
[30] US (62/302,027) 2016-03-01
[30] US (62/365,809) 2016-07-22

[11] **2,997,914**
[13] C

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/46 (2020.01)**

[25] EN

[54] **ELECTRONIC SMOKING ARTICLE**

[54] **ARTICLE ELECTRONIQUE POUR FUMEUR**

[72] BLESS, ALFRED, CHARLES, US
[72] LIBERTI, MICHAEL, ANDREW, US
[72] SEARS, STEPHEN, BENSON, US
[73] RAI STRATEGIC HOLDINGS, INC., US
[85] 2018-03-07
[86] 2016-06-07 (PCT/US2016/036222)
[87] (WO2016/200815)
[30] US (14/734,421) 2015-06-09

[11] **2,997,918**
[13] C

[51] **Int.Cl. H01F 38/12 (2006.01) F02P 1/08 (2006.01) F02P 3/01 (2006.01) H01F 5/00 (2006.01)**

[25] EN

[54] **IGNITION COIL FOR PASSING ALTERNATING CURRENT TO A SPARK PLUG**

[54] **BOBINE D'ALLUMAGE DESTINEE A APPLIQUER UN COURANT ALTERNATIF A UNE BOUGIE D'ALLUMAGE**

[72] MARRS, THOMAS C., US
[73] MARSHALL ELECTRIC CORP., US
[85] 2018-03-07
[86] 2016-09-08 (PCT/US2016/050646)
[87] (WO2017/044544)
[30] US (14/851,267) 2015-09-11

[11] **2,998,467**
[13] C

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[25] EN

[54] **MODIFIED WOOD PRODUCT AND A PROCESS FOR PRODUCING SAID PRODUCT**

[54] **PRODUIT EN BOIS COMPOSITE ET PROCEDE DE PRODUCTION DE CE PRODUIT**

[72] MAYES, DUNCAN, FI
[72] PYNNONEN, JANNE, FI
[72] STOD, REETA-MARIA, FI
[73] STORA ENSO OYJ, FI
[85] 2018-03-12
[86] 2016-09-28 (PCT/IB2016/055796)
[87] (WO2017/056013)
[30] SE (1551246-0) 2015-09-29

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[11] **2,998,481**
[13] C

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/56 (2006.01)**
[25] EN
[54] **JOINT SPACER SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'ESPACEMENT D'ARTICULATION**
[72] BAYS, F. BARRY, US
[72] DAYTON, PAUL, US
[72] FERGUSON, JOE WILLIAM, US
[72] GIL, CARLOS EDUARDO, US
[72] SANTROCK, ROBERT D., US
[72] SCANLAN, SEAN F., US
[72] SMITH, W. BRET, US
[72] TREACE, JOHN T., US
[73] TREACE MEDICAL CONCEPTS, INC., US
[85] 2018-03-12
[86] 2016-09-16 (PCT/US2016/052087)
[87] (WO2017/049056)
[30] US (62/220,530) 2015-09-18
[30] US (62/366,219) 2016-07-25

[11] **2,999,730**
[13] C

[51] **Int.Cl. A62B 17/00 (2006.01) A41D 13/00 (2006.01) A41D 27/00 (2006.01) A41F 1/00 (2006.01)**
[25] EN
[54] **HOOK AND DEE FOR FIREFIGHTER PROTECTIVE COATS**
[54] **CROCHET ET MANILLE DESTINES A DES MANTEAUX DE PROTECTION DE POMPIER**
[72] BARBEAU, CLAUDE, CA
[72] ST-ARNEAULT, ERIC, CA
[73] INNOTEX INC., CA
[86] (2999730)
[87] (2999730)
[22] 2018-03-29
[30] US (62/479,677) 2017-03-31

[11] **3,000,105**
[13] C

[51] **Int.Cl. H05B 6/02 (2006.01) F27D 11/06 (2006.01) H02M 7/5387 (2007.01) H05B 6/04 (2006.01) H05B 6/06 (2006.01) H05B 6/42 (2006.01)**
[25] EN
[54] **HIGH POWER SWITCHING DEVICES FOR INDUCTIVE HEATING APPLICATIONS**
[54] **DISPOSITIFS DE COMMUTATION HAUTE PUISSANCE POUR APPLICATIONS DE CHAUFFAGE PAR INDUCTION**
[72] JONES, FRANKLIN B., US
[72] DONAHUE, ERIC D., US
[72] NEHRING, ANDREW I., US
[72] JONES, DANIEL T., US
[72] HUMMEL, ROBERT A., US
[73] ATSE, LLC, US
[86] (3000105)
[87] (3000105)
[22] 2018-04-03
[30] US (62/481,443) 2017-04-04

[11] **3,000,438**
[13] C

[51] **Int.Cl. G01N 15/00 (2024.01) G01N 15/01 (2024.01) H01F 1/01 (2006.01)**
[25] EN
[54] **DEVICE FOR MAGNETIC PROFILING OF PARTICLES IN A FLOW**
[54] **DISPOSITIF DE PROFILAGE MAGNETIQUE DE PARTICULES DANS UN ECOULEMENT**
[72] KELLEY, SHANA, CA
[72] SARGENT, EDWARD, CA
[72] POUADINEH, MAHLA, CA
[72] MOHAMADI, REZA, CA
[72] ALDRIDGE, PETER, CA
[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2018-03-28
[86] 2016-09-27 (PCT/CA2016/051128)
[87] (WO2017/054075)
[30] US (62/233,648) 2015-09-28

[11] **3,001,341**
[13] C

[51] **Int.Cl. C12N 5/074 (2010.01) C12N 5/00 (2006.01) C12Q 1/00 (2006.01)**
[25] EN
[54] **METHODS OF PRODUCING IN VITRO LIVER CONSTRUCTS AND USES THEREOF**
[54] **PROCEDES DE PRODUCTION DE CONSTRUCTIONS DE FOIE IN VITRO ET UTILISATIONS ASSOCIEES**
[72] ATALA, ANTHONY, US
[72] BISHOP, COLIN, US
[72] MEAD, IVY, US
[73] WAKE FOREST UNIVERSITY HEALTH SCIENCES, US
[85] 2018-04-06
[86] 2016-10-14 (PCT/US2016/056942)
[87] (WO2017/070007)
[30] US (62/241,966) 2015-10-15

[11] **3,002,196**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01)**
[25] EN
[54] **MULTIPLEX AMPLIFICATION DETECTION ASSAY AND ISOLATION AND DETECTION OF DNA FROM PLASMA**
[54] **DETECTION PAR AMPLIFICATION MULTIPLEXEE ET ISOLEMENT ET DETECTION D'ADN ISSU DE PLASMA**
[72] ALLAWI, HATIM, US
[72] LIDGARD, GRAHAM P., US
[72] AIZENSTEIN, BRIAN, US
[72] SANDER, TAMARA J., US
[72] GIAKOUMOPOULOS, MARIA, US
[72] KAISER, MICHAEL W., US
[72] GRAY, MELISSA M., US
[72] VACCARO, ABRAM MICHAEL, US
[73] EXACT SCIENCES CORPORATION, US
[85] 2018-04-16
[86] 2016-10-26 (PCT/US2016/058875)
[87] (WO2017/075061)
[30] US (62/249,097) 2015-10-30

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[11] **3,002,713**
[13] C

[51] **Int.Cl. C09J 4/00 (2006.01) C09J 4/06 (2006.01) C09K 3/10 (2006.01)**

[25] EN

[54] **ANAEROBICALLY CURABLE COMPOSITIONS**

[54] **COMPOSITIONS ANAEROBIQUEMENT DURCISSABLES**

[72] LEDWITH, DEIRDRE, IE

[72] HYNES, AIMEE, IE

[72] O'KANE, RUAIRI, IE

[72] MULLEN, DAVID, IE

[72] BERGIN, NIAMH, IE

[72] DWORAK, DAVID, US

[72] FITZPATRICK, MARTIN, IE

[72] WROBEL, PETER, IE

[72] KNEAFSEY, BRENDAN, IE

[72] HOULIHAN, JIM, IE

[72] DOHERTY, MICHAEL, IE

[72] LOANE, MARK, IE

[73] HENKEL AG & CO. KGAA, DE

[85] 2018-04-20

[86] 2016-10-24 (PCT/EP2016/075584)

[87] (WO2017/068196)

[30] GB (1518760.2) 2015-10-22

[11] **3,003,192**
[13] C

[51] **Int.Cl. A61B 18/02 (2006.01) A61B 18/18 (2006.01) A61N 5/02 (2006.01)**

[25] EN

[54] **A DEVICE FOR DELIVERING MICROWAVE ENERGY AND USES THEREOF**

[54] **DISPOSITIF DE DISTRIBUTION D'ENERGIE MICRO-ONDE ET UTILISATIONS CONNEXES**

[72] THIEL, MATTHEW, US

[72] THOM, MARK, US

[72] SCHEFFELKER, RICHARD W., US

[72] BISSING, JEFF, US

[72] LAZIMY, YANIV, US

[72] SCHANING, MATT, US

[72] ANDERSON, DAVE, US

[73] NEUWAVE MEDICAL, INC., US

[85] 2018-04-24

[86] 2016-10-26 (PCT/US2016/058888)

[87] (WO2017/075067)

[30] US (62/246,431) 2015-10-26

[11] **3,003,222**
[13] C

[51] **Int.Cl. F15B 11/042 (2006.01) F15B 11/044 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR CONTROLLING A HYDRAULICALLY ACTUATED DRIVE UNIT OF A VALVE**

[54] **PROCEDE ET DISPOSITIF DE COMMANDE D'UNE UNITE D'ENTRAINEMENT A ACTIONNEMENT HYDRAULIQUE D'UN ELEMENT DE ROBINETTERIE**

[72] LITSCHKO, BJORN, DE

[73] PLEIGER MASCHINENBAU GMBH & CO. KG, DE

[85] 2018-04-25

[86] 2016-11-03 (PCT/EP2016/076543)

[87] (WO2017/076965)

[30] DE (10 2015 119 108.3) 2015-11-06

[11] **3,003,300**
[13] C

[51] **Int.Cl. A23L 7/117 (2016.01) A23L 33/17 (2016.01) A23P 30/20 (2016.01)**

[25] EN

[54] **HIGH PROTEIN FLAKES DERIVED FROM PROTEIN PELLETS**

[54] **FLOCONS RICHES EN PROTEINE OBTENUS A PARTIR DE GRANULES DE PROTEINE**

[72] HOSSEN, MONJUR, US

[72] CHERIAN, GEORGE, US

[72] ASIF, MUHAMMAD, US

[73] KELLOGG COMPANY, US

[85] 2018-04-25

[86] 2016-11-15 (PCT/US2016/062001)

[87] (WO2017/087369)

[30] US (62/255,710) 2015-11-16

[11] **3,003,742**
[13] C

[51] **Int.Cl. G16C 20/70 (2019.01) G01N 33/48 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **AUTOMATED SAMPLE QUALITY ASSESSMENT**

[54] **EVALUATION AUTOMATISEE DE LA QUALITE D'UN ECHANTILLON**

[72] KENNEDY, ADAM D., US

[72] MITCHELL, MATTHEW W., US

[72] BROWN, MEREDITH V., US

[72] LAWTON, KAY A., US

[72] LONERGAN, SHAUN, US

[72] WULFF, JACOB, US

[73] METABOLON, INC., US

[85] 2018-04-30

[86] 2016-11-03 (PCT/US2016/060245)

[87] (WO2017/079384)

[30] US (62/250,627) 2015-11-04

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[11] **3,004,623**
[13] C

[51] **Int.Cl. C07D 405/06 (2006.01) A61K 31/4427 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **A SOLID STATE FORM OF PLADIENOLIDE PYRIDINE COMPOUNDS AND METHODS OF USE**

[54] **FORME D'ETAT SOLIDE DE COMPOSES DE PLADIENOLIDE-PYRIDINE ET PROCEDES POUR LEUR UTILISATION**

[72] KEANEY, GREGG F., US

[72] WANG, JOHN, US

[72] GERARD, BAUDOUIN, US

[72] ARAI, KENZO, JP

[72] LIU, XIANG, US

[72] KIRA, KAZUNOBU, JP

[72] TIVITMAHAISOON, PARCHAREE, US

[72] PRAJAPATI, SUDEEP, US

[72] KOTAKE, YOSHIHIKO, JP

[72] MIYANO, MASAYUKI, JP

[72] MURAI, NORIO, JP

[72] BUONAMICI, SILVIA, US

[72] YU, LIHUA, US

[72] PAZOLLI, ERMIRA, US

[72] ZHENG, GUO ZHU, US

[72] GEARHART, NICHOLAS C., US

[72] NAGAO, SATOSHI, JP

[72] KANADA SONABE, REGINA MIKIE, JP

[72] PARK, EUNICE SUN, US

[72] CHAN, BETTY, US

[72] SMITH, PETER G., US

[72] THOMAS, MICHAEL P., US

[72] LIM, KIAN HUAT, US

[72] CHANDA, ARANI, US

[72] ENDO, ATSUSHI, US

[73] EISAI R&D MANAGEMENT CO., LTD., JP

[85] 2018-05-07

[86] 2016-11-17 (PCT/US2016/062525)

[87] (WO2017/087667)

[30] US (62/257,088) 2015-11-18

[11] **3,004,799**
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/11 (2006.01)**

[25] EN

[54] **OLIGONUCLEOTIDES FOR INDUCING PATERNAL UBE3A EXPRESSION**

[54] **OLIGONUCLEOTIDES POUR INDUIRE L'EXPRESSION PATERNELLE D'UBE3A**

[72] COSTA, VERONICA, CH

[72] HEDTJARN, MAJ, DK

[72] HOENER, MARIUS, CH

[72] JAGASIA, RAVI, CH

[72] JENSEN, MADS AABOE, DK

[72] PATSCH, CHRISTOPH, CH

[72] PEDERSEN, LYKKE, DK

[72] RASMUSSEN, SOREN VESTERGAARD, DK

[73] F. HOFFMANN-LA ROCHE AG, CH

[85] 2018-05-09

[86] 2016-11-11 (PCT/EP2016/077383)

[87] (WO2017/081223)

[30] EP (15194367.7) 2015-11-12

[30] EP (16189502.4) 2016-09-19

[11] **3,004,834**
[13] C

[51] **Int.Cl. C10M 169/04 (2006.01)**

[25] EN

[54] **ZINC-FREE LUBRICATING COMPOSITION**

[54] **COMPOSITION LUBRIFIANTE DEPOURVUE DE ZINC**

[72] SUTTON, MICHAEL R., GB

[72] VINCENT, PAUL R., GB

[73] THE LUBRIZOL CORPORATION, US

[85] 2018-05-08

[86] 2016-11-10 (PCT/US2016/061369)

[87] (WO2017/083546)

[30] US (62/253,871) 2015-11-11

[11] **3,005,062**
[13] C

[51] **Int.Cl. C09K 8/32 (2006.01) E21B 21/00 (2006.01) E21B 21/06 (2006.01)**

[25] EN

[54] **BASE OIL COMPOSITION FOR USE IN OIL-BASE DRILLING MUD COMPOSITIONS, AND METHODS OF PRODUCING SAME**

[54] **COMPOSITION D'HUILE DE BASE A UTILISER DANS LES COMPOSITIONS DE BOUE DE FORAGE A BASE D'HUILE, ET METHODES DE PRODUCTION DE CES COMPOSITIONS**

[72] SCALLEY, MATTHEW, CA

[73] RECOVER ENERGY SERVICES INC., CA

[86] (3005062)

[87] (3005062)

[22] 2018-05-16

[30] US (62/506,851) 2017-05-16

[11] **3,005,946**
[13] C

[51] **Int.Cl. H04L 67/12 (2022.01) B64D 11/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR REPRESENTING A LOCATION OF A FAULT IN AN AIRCRAFT CABIN**

[54] **SYSTEME ET PROCEDE POUR REPRESENTER UN EMPLACEMENT D'UNE ANOMALIE DANS UNE CABINE D'AERONEF**

[72] FAGAN, TIM, CA

[72] MURPHY, ERIN, US

[72] NANCARROW, LINSEY, US

[72] BARTENBACH, JEFF, US

[73] BOMBARDIER INC., CA

[85] 2018-05-22

[86] 2015-11-23 (PCT/IB2015/059053)

[87] (WO2017/089862)

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[11] **3,006,147**
[13] C

[51] **Int.Cl. G01N 37/00 (2006.01) F27D 21/02 (2006.01) G01J 5/48 (2006.01) G01N 21/84 (2006.01) G01N 23/00 (2006.01) G03B 17/55 (2021.01) G03B 35/08 (2021.01) G03B 37/04 (2021.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR THE INSPECTION OR OPERATIONAL OBSERVATION OF DANGEROUS, HARSH SPACES OR SPACES WITH HOSTILE ENVIRONMENTAL CONDITIONS**

[54] **PROCEDE ET APPAREIL D'INSPECTION OU D'OBSERVATION FONCTIONNELLE D'ESPACES DANGEREUX OU RUDES OU D'ESPACES A CONDITIONS ENVIRONNEMENTALES HOSTILES**

[72] MORI, CRISTIAN, US
[72] MEMOLI, FRANCESCO, US
[73] TENOVA S.P.A., IT
[85] 2018-05-24
[86] 2016-12-15 (PCT/EP2016/081149)
[87] (WO2017/102926)
[30] IT (102015000084673) 2015-12-17

[11] **3,006,951**
[13] C

[51] **Int.Cl. A61J 1/20 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND COMPONENTS FOR TRANSFERRING MEDICAL FLUIDS**

[54] **SYSTEMES, PROCEDES ET COMPOSANTS POUR LE TRANSFERT DE FLUIDES MEDICAUX**

[72] FANGROW, THOMAS F., US
[73] ICU MEDICAL, INC., US
[85] 2018-05-30
[86] 2016-12-01 (PCT/US2016/064467)
[87] (WO2017/096072)
[30] US (62/263,541) 2015-12-04
[30] US (62/360,900) 2016-07-11

[11] **3,007,505**
[13] C

[51] **Int.Cl. E01B 27/13 (2006.01)**

[25] EN

[54] **METHOD FOR COMPACTING THE BALLAST BED OF A TRACK, AND TAMPING UNIT**

[54] **PROCEDE DE COMPACTAGE DU LIT DE BALLAST D'UNE VOIE FERREE ET ENSEMBLE DE BOURRAGE**

[72] HOFSTATTER, JOSEF, AT
[72] PHILIPP, THOMAS, AT
[73] PLASSER & THEURER EXPORT VON BAHNBAUMASCHINEN GESELLSCHAFT M.B.H., AT
[85] 2018-06-06
[86] 2016-12-29 (PCT/EP2016/002185)
[87] (WO2017/129215)
[30] AT (A 34/2016) 2016-01-26

[11] **3,008,555**
[13] C

[51] **Int.Cl. A61N 5/06 (2006.01)**

[25] EN

[54] **DEVICE FOR PHOTODYNAMIC TREATMENT**

[54] **DISPOSITIF DE TRAITEMENT PHOTODYNAMIQUE**

[72] GJORSVIK, TORE, NO
[72] GODAL, ASLAK, NO
[72] WARREN, ROGER WILLIAM ROLFE, NZ
[73] PHOTOCURE ASA, NO
[85] 2018-06-14
[86] 2016-12-16 (PCT/EP2016/081425)
[87] (WO2017/103105)
[30] GB (1522398.5) 2015-12-18

[11] **3,008,748**
[13] C

[51] **Int.Cl. C09D 183/02 (2006.01) C04B 24/42 (2006.01) C04B 28/24 (2006.01) C09D 183/04 (2006.01)**

[25] EN

[54] **POTASSIUM SILICATE COATING COMPOSITION SYSTEM FOR CELLULOSIC ARTICLES**

[54] **SYSTEME DE COMPOSITION DE REVETEMENT DE SILICATE DE POTASSIUM POUR DES ARTICLES CELLULOSIQUES**

[72] BOSTROM, HERJE, SE
[72] GEVERT, BORJE, SE
[73] SIOO FARGKULTUR AB, SE
[85] 2018-06-15
[86] 2016-12-23 (PCT/EP2016/082562)
[87] (WO2017/109174)
[30] SE (1551715-4) 2015-12-23
[30] US (62/387,233) 2015-12-23

[11] **3,010,116**
[13] C

[51] **Int.Cl. G06Q 20/38 (2012.01) H04L 9/08 (2006.01) H04L 9/30 (2006.01) H04L 9/32 (2006.01)**

[25] EN

[54] **DETERMINING A COMMON SECRET FOR THE SECURE EXCHANGE OF INFORMATION AND HIERARCHICAL, DETERMINISTIC CRYPTOGRAPHIC KEYS**

[54] **DETERMINATION D'UN SECRET COMMUN POUR L'ECHANGE SECURISE D'INFORMATIONS ET DE CLES CRYPTOGRAPHIQUES DETERMINISTES ET HIERARCHIQUES**

[72] WRIGHT, CRAIG STEVEN, GB
[72] SAVANAH, STEPHANE, GB
[73] NCHAIN HOLDINGS LIMITED, AG
[85] 2018-06-28
[86] 2017-02-16 (PCT/IB2017/050856)
[87] (WO2017/145016)
[30] GB (1603117.1) 2016-02-23
[30] GB (1619301.3) 2016-11-15

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[11] **3,010,263**
[13] C

[51] **Int.Cl. G06F 3/033 (2013.01)**
[25] EN
[54] **MANAGING DISPLAYED INFORMATION ACCORDING TO USER GAZE DIRECTIONS**
[54] **GESTION DES INFORMATIONS AFFICHEES SELON LES DIRECTIONS DU REGARD DE L'UTILISATEUR**
[72] NOCHAM, ITAMAR, IL
[72] SHAHAL, AVNER, IL
[73] ELBIT SYSTEMS LTD., IL
[85] 2018-06-29
[86] 2016-12-28 (PCT/IL2016/051390)
[87] (WO2017/115365)
[30] IL (243422) 2015-12-30

[11] **3,010,565**
[13] C

[51] **Int.Cl. A61K 9/19 (2006.01) A61K 38/16 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01)**
[25] EN
[54] **FREEZE-DRIED FORMULATIONS OF ANTIBACTERIAL PROTEIN**
[54] **FORMULATIONS LYOPHILISEES DE PROTEINE ANTIBACTERIENNE**
[72] YOON, SEONG JUN, KR
[72] JUN, SOO YOUN, KR
[72] JUNG, GI MO, KR
[72] KANG, SANG HYEON, KR
[73] INTRON BIOTECHNOLOGY, INC., KR
[85] 2018-07-04
[86] 2017-01-09 (PCT/IB2017/050091)
[87] (WO2017/122114)
[30] US (62/277,588) 2016-01-12

[11] **3,010,835**
[13] C

[51] **Int.Cl. A61B 7/04 (2006.01) H03F 99/00 (2009.01) H03H 7/01 (2006.01)**
[25] EN
[54] **STETHOGRAPHIC DEVICE**
[54] **APPAREIL STETHOGRAPHIQUE**
[72] ATASHBAR, MASSOOD ZANDI, US
[72] NARAKATHU, BINU BABY, US
[72] ZHANG, XINGZHE, US
[72] MADDIPATLA, DINESH, US
[73] THE BOARD OF TRUSTEES OF WESTERN MICHIGAN UNIVERSITY, US
[86] (3010835)
[87] (3010835)
[22] 2018-07-09
[30] US (62/650,781) 2018-03-30

[11] **3,011,268**
[13] C

[51] **Int.Cl. A61B 5/107 (2006.01)**
[25] EN
[54] **A DEVICE AND METHOD FOR PROVIDING A MEASURE OF A CIRCUMFERENCE OF A BODY PART**
[54] **DISPOSITIF ET PROCEDE POUR FOURNIR UNE MESURE DE LA CIRCONFERENCE D'UNE PARTIE DU CORPS**
[72] ETTRUP, JENS, DK
[72] HARBOE, HENRIK, DK
[73] SPECIALBANDAGER.DK A/S, DK
[85] 2018-07-12
[86] 2017-01-13 (PCT/DK2017/050004)
[87] (WO2017/121434)
[30] DK (PA201670014) 2016-01-13

[11] **3,011,377**
[13] C

[51] **Int.Cl. G06F 3/01 (2006.01) A63F 13/52 (2014.01) G02B 27/00 (2006.01) G06F 3/00 (2006.01) G06F 3/03 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUGMENTED REALITY**
[54] **SYSTEMES ET PROCEDES POUR REALITE AUGMENTEE**
[72] MILLER, SAMUEL A., US
[72] WOODS, MICHAEL J., US
[72] LUNDMARK, DAVID C., US
[73] MAGIC LEAP, INC., US
[85] 2018-07-12
[86] 2017-02-06 (PCT/US2017/016722)
[87] (WO2017/136833)
[30] US (62/292,185) 2016-02-05
[30] US (62/298,993) 2016-02-23
[30] US (15/062,104) 2016-03-05

[11] **3,011,993**
[13] C

[51] **Int.Cl. A61N 1/02 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS AND DEVICES FOR PERIPHERAL NEUROMODULATION FOR TREATING DISEASES RELATED TO OVERACTIVE BLADDER**
[54] **SYSTEMES, PROCEDES ET DISPOSITIFS DE NEUROMODULATION PERIPHERIQUE POUR LE TRAITEMENT DE MALADIES ASSOCIEES A UNE HYPERACTIVITEVESICALE**
[72] WONG, SERENA HANYING, US
[72] ROSENBLUTH, KATHRYN H., US
[72] HAMNER, SAMUEL RICHARD, US
[72] LIN, PETER, US
[72] PLESS, BENJAMIN, US
[73] CALA HEALTH, INC., US
[85] 2018-07-18
[86] 2017-01-20 (PCT/US2017/014431)
[87] (WO2017/132067)
[30] US (62/281,606) 2016-01-21
[30] US (62/352,462) 2016-06-20
[30] US (62/365,326) 2016-07-21

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14 mai 2024**

[11] **3,012,278**
[13] C

- [51] **Int.Cl. A61B 3/113 (2006.01) A61B 3/10 (2006.01) G02C 7/02 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING AN OPTHALMIC LENS ADAPTED TO A LOCOMOTION PARAMETER**
[54] **PROCEDE DE DETERMINATION D'UNE LENTILLE OPHTALMIQUE ADAPTEE A UN PARAMETRE DE LOCOMOTION**
[72] TRANVOUEZ-BERNARDIN, DELPHINE, FR
[72] BARANTON, KONOAN, FR
[72] POULAIN, ISABELLE, FR
[72] CALIXTE, LAURENT, FR
[73] ESSILOR INTERNATIONAL, FR
[85] 2018-07-23
[86] 2017-03-09 (PCT/EP2017/055578)
[87] (WO2017/157760)
[30] EP (16305279.8) 2016-03-15

[11] **3,012,573**
[13] C

- [51] **Int.Cl. H02G 3/22 (2006.01) B23B 45/00 (2006.01) B23B 47/02 (2006.01) B25J 1/02 (2006.01) B25J 17/02 (2006.01) B25J 18/00 (2006.01)**
[25] EN
[54] **SNAKE-LIKE ROBOT**
[54] **ROBOT DU TYPE SERPENT**
[72] BILSKY, MATTHEW, US
[73] FLX SOLUTIONS, INC., US
[85] 2018-07-23
[86] 2016-10-06 (PCT/US2016/055791)
[87] (WO2017/062648)
[30] US (62/237,987) 2015-10-06
[30] US (62/278,487) 2016-01-14

[11] **3,016,503**
[13] C

- [51] **Int.Cl. B23K 37/04 (2006.01) B23P 11/00 (2006.01)**
[25] EN
[54] **TOOL FOR FACILITATING REMOVAL OF A BROKEN EXHAUST MANIFOLD STUD FROM A CYLINDER HEAD AND METHOD OF USING SAME**
[54] **OUTIL SERVANT A FACILITER LE RETRAIT D'UN MONTANT DE COLLECTEUR D'ECHAPPEMENT BRISE D'UNE TETE DE CYLINDRE ET METHODE D'UTILISATION ASSOCIEE**
[72] ROBERTO, MARCO, CA
[72] ROBERTO, CARLO, CA
[73] GESTIONS ROBERTO INC., CA
[86] (3016503)
[87] (3016503)
[22] 2018-09-05
[30] GB (1715542.5) 2017-09-22

[11] **3,016,529**
[13] C

- [51] **Int.Cl. B63H 20/02 (2006.01) B63H 21/20 (2006.01) B63H 25/42 (2006.01)**
[25] EN
[54] **STERN-MOUNTED LATERAL MARINE THRUSTER**
[54] **PROPULSEUR MARIN LATERAL MONTE A LA POUPE**
[72] GRIFFIN, ROB, CA
[72] HOULE, MARK, CA
[73] SIDESHIFT INC., CA
[86] (3016529)
[87] (3016529)
[22] 2018-09-05
[30] CA (3,012,297) 2018-07-25

[11] **3,017,022**
[13] C

- [51] **Int.Cl. H01M 12/08 (2006.01) H01M 10/39 (2006.01)**
[25] EN
[54] **APPARATUS FOR STORING ELECTRIC ENERGY AND METHOD OF OPERATING THE APPARATUS**
[54] **PROCEDE D'ACCUMULATION D'ENERGIE ELECTRIQUE ET PROCEDE DE FONCTIONNEMENT DU DISPOSITIF**
[72] HEIDEBRECHT, PETER, DE
[72] BAYER, DOMNIK, DE
[72] JABCZYNSKI, WOLFGANG, DE
[72] ZERPA UNDA, JESUS ENRIQUE, DE
[72] DUERR, ANNA KATHARINA, DE
[73] BASF SE, DE
[85] 2018-09-06
[86] 2017-03-03 (PCT/EP2017/055067)
[87] (WO2017/153292)
[30] EP (16159091.4) 2016-03-08

[11] **3,018,050**
[13] C

- [51] **Int.Cl. G21C 5/18 (2006.01) G21C 19/20 (2006.01) G21D 1/00 (2006.01)**
[25] EN
[54] **INTER-MODULE FUEL SHUFFLING**
[54] **REARRANGEMENT DE COMBUSTIBLE INTER-MODULE**
[72] KITTO, ALLYSON, US
[72] INGERSOLL, DANIEL, US
[72] REYES, JOSE N., JR., US
[73] NUSCALE POWER, LLC, US
[85] 2018-09-17
[86] 2017-03-01 (PCT/US2017/020169)
[87] (WO2017/184259)
[30] US (62/314,523) 2016-03-29
[30] US (15/445,186) 2017-02-28

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[11] **3,018,131**
[13] C

[51] **Int.Cl. A61K 8/34 (2006.01) A01N 31/04 (2006.01) A01N 31/08 (2006.01) A01N 33/12 (2006.01) A01N 57/12 (2006.01) A61K 8/55 (2006.01) A61K 31/045 (2006.01) A61K 31/05 (2006.01) A61K 31/685 (2006.01) A61P 31/02 (2006.01) A61Q 17/00 (2006.01) A61Q 19/10 (2006.01) C11D 3/48 (2006.01)**

[25] EN

[54] **AN ANTIMICROBIAL COMPOSITION COMPRISING THYMOL, TERPINEOL AND A CATIONIC PHOSPHOLIPID**

[54] **COMPOSITION ANTIMICROBIENNE COMPRENANT DU THYMOL, DU TERPINEOL ET UN PHOSPHOLIPIDE CATIONIQUE**

[72] DASGUPTA, ANINDYA, IN

[72] GU, QIONG, CN

[72] HERMANSON, KEVIN DAVID, US

[72] MOADDEL, TEANOOSH, US

[72] SALGAONKAR, NEHA, IN

[72] SHEN, BO, CN

[72] QIU, QIANG, US

[73] UNILEVER GLOBAL IP LIMITED, GB

[85] 2018-09-18

[86] 2017-03-30 (PCT/EP2017/057610)

[87] (WO2017/178240)

[30] CN (PCT/CN2016/079293) 2016-04-14

[30] EP (16176486.5) 2016-06-27

[11] **3,020,933**
[13] C

[51] **Int.Cl. A61K 31/122 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **THERAPEUTIC COMPOSITIONS FOR TREATING PANCREATIC CANCER**

[54] **COMPOSITIONS THERAPEUTIQUES DESTINEES AU TRAITEMENT DU CANCER DU PANCREAS**

[72] LIU, SHENG-YUNG, TW

[72] CHEN, CHIH-MING, TW

[73] GOLDEN BIOTECHNOLOGY CORPORATION, US

[86] (3020933)

[87] (3020933)

[22] 2018-10-15

[30] US (62/608,549) 2017-12-20

[11] **3,021,367**
[13] C

[51] **Int.Cl. H04W 40/22 (2009.01) H04W 8/26 (2009.01) H04W 24/00 (2009.01) H04L 43/0811 (2022.01) H04L 43/0888 (2022.01) H04L 43/16 (2022.01) H04L 61/4511 (2022.01) H04L 61/5007 (2022.01) H04L 61/5014 (2022.01) H04L 69/14 (2022.01) H04L 61/103 (2022.01) H04L 61/2514 (2022.01) H04L 61/2517 (2022.01) H04L 61/256 (2022.01) H04L 61/2592 (2022.01)**

[25] EN

[54] **USING WLAN CONNECTIVITY OF A WIRELESS DEVICE**

[54] **UTILISATION DE LA CONNECTIVITE WLAN D'UN DISPOSITIF SANS FIL**

[72] BARRETT, STEPHEN JOHN, GB

[72] MCCANN, STEPHEN, GB

[72] RUSSELL, NICHOLAS JAMES, GB

[72] CHRONQVIST, ANDERS FREDRIK, SE

[73] BLACKBERRY LIMITED, CA

[85] 2018-09-14

[86] 2017-05-16 (PCT/CA2017/050593)

[87] (WO2017/197516)

[30] US (15/160,126) 2016-05-20

[11] **3,022,771**
[13] C

[51] **Int.Cl. H02J 7/00 (2006.01)**

[25] EN

[54] **SMART POWER SUPPLY**

[54] **ALIMENTATION ELECTRIQUE INTELLIGENTE**

[72] HACKL, DANIEL PATRICK, CA

[73] SAVOX COMMUNICATIONS OY AB (LTD), FI

[85] 2018-10-31

[86] 2017-05-04 (PCT/FI2017/050342)

[87] (WO2017/191368)

[30] FI (20165385) 2016-05-04

[11] **3,023,389**
[13] C

[51] **Int.Cl. A01G 23/083 (2006.01) A01G 23/091 (2006.01)**

[25] EN

[54] **A TREE HARVESTING MACHINE, A TREE HARVESTING MONITORING SYSTEM, A TREE HARVESTING HEAD, A METHOD FOR CONTROLLING OPERATION OF A TREE HARVESTING HEAD AND A METHOD FOR MONITORING OPERATION OF A TREE HARVESTING MACHINE**

[54] **ABATTEUSE-EBRANCHEUSE, SYSTEME DE SURVEILLANCE D'ABATTAGE-EBRANCHEMENT, TETE D'ABATTAGE-EBRANCHEMENT, PROCEDE DE COMMANDE DE FONCTIONNEMENT D'UNE TETE D'ABATTAGE-EBRANCHEMENT, ET PROCEDE DE SURVEILLANCE DE FONCTIONNEMENT D'ABATTEUSE-EBRANCHEUSE**

[72] ELIASSON, MIKAEL, SE

[73] LOG MAX AB, SE

[85] 2018-11-06

[86] 2017-05-10 (PCT/EP2017/061112)

[87] (WO2017/198504)

[30] SE (1650663-6) 2016-05-17

[11] **3,023,759**
[13] C

[51] **Int.Cl. A61J 9/06 (2006.01)**

[25] EN

[54] **A CONTAINER GRIPPING AID**

[54] **AIDE DE PREHENSION DE RECIPIENT**

[72] MORAN, OLLWYN AGNES, IE

[73] MORAN, OLLWYN AGNES, IE

[85] 2018-11-09

[86] 2016-05-11 (PCT/EP2016/060576)

[87] (WO2016/180887)

[30] IE (S2015/0144) 2015-05-11

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[11] **3,024,001**
[13] C

[51] **Int.Cl. A61K 8/34 (2006.01) A61Q 7/00 (2006.01)**

[25] EN

[54] **COMPOUNDS FOR PROMOTING HAIR GROWTH AND/OR INHIBITING OR DELAYING HAIR LOSS IN HUMANS, AND COMPOSITIONS FOR SUCH USES**

[54] **COMPOSES POUR STIMULER LA CROISSANCE DES CHEVEUX ET/OU INHIBER OU RETARDER LA CHUTE DES CHEVEUX CHEZ L'HOMME, ET COMPOSITIONS POUR DE TELLES UTILISATIONS**

[72] PAUS, RALF, DE
[72] CHERET, JEREMY, DE
[72] HATT, HANNS, DE
[72] BARONI, SERGIO, IT
[73] GIULIANI S.P.A., IT
[85] 2018-11-13
[86] 2017-05-19 (PCT/EP2017/062110)
[87] (WO2017/198818)
[30] IT (102016000051626) 2016-05-19

[11] **3,024,582**
[13] C

[51] **Int.Cl. F23L 17/00 (2006.01) F04D 25/08 (2006.01) F16L 25/04 (2006.01) F23L 17/16 (2006.01) F23N 3/08 (2006.01)**

[25] EN

[54] **DIRECT VENT DILUTION AIR CONNECTION SYSTEM**

[54] **SYSTEME DE CONNEXION D'AIR DE DILUTION D'EVENT DIRECT**

[72] SMITH, MICHAEL D., US
[73] REGAL BELOIT AMERICA, INC., US
[86] (3024582)
[87] (3024582)
[22] 2018-11-19
[30] US (15/830,567) 2017-12-04

[11] **3,024,863**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 34/02 (2006.01)**

[25] EN

[54] **HYDRAULIC FRACTURING SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE FRACTURATION HYDRAULIQUE**

[72] CIEZOBKA, JORDAN, US
[72] MAITY, DEBOTYAM, US
[72] SALEHI, IRAJ, US
[73] GAS TECHNOLOGY INSTITUTE, US
[85] 2018-11-19
[86] 2017-05-22 (PCT/US2017/033813)
[87] (WO2017/201526)
[30] US (62/339,233) 2016-05-20
[30] US (15/445,044) 2017-02-28
[30] US (15/464,939) 2017-03-21
[30] US (15/600,155) 2017-05-19

[11] **3,025,290**
[13] C

[51] **Int.Cl. C07C 51/09 (2006.01) C07C 51/43 (2006.01) C07C 51/44 (2006.01) C07C 55/02 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF PURIFIED DICARBOXYLIC ACIDS**

[54] **PROCEDE DE PREPARATION D'ACIDES DICARBOXYLIQUES PURIFIES**

[72] CAPUZZI, LUIGI, IT
[72] DIGIOIA, FRANCESCA, IT
[73] NOVAMONT S.P.A., IT
[85] 2018-11-22
[86] 2017-06-05 (PCT/EP2017/063617)
[87] (WO2017/211766)
[30] IT (102016000057753) 2016-06-06

[11] **3,025,850**
[13] C

[51] **Int.Cl. A61K 31/352 (2006.01) A23L 5/00 (2016.01) A61K 8/00 (2006.01) A61P 31/04 (2006.01) D21H 25/00 (2006.01)**

[25] EN

[54] **CANNABIDIOL COMPOSITIONS AND USES THEREOF**

[54] **COMPOSITIONS DE CANNABIDIOL ET LEURS UTILISATIONS**

[72] AESCHBACH, RODIN, CH
[73] PHARMOTECH SA, CH
[85] 2018-11-28
[86] 2017-06-01 (PCT/EP2017/063385)
[87] (WO2017/207730)
[30] EP (16172574.2) 2016-06-02

[11] **3,026,092**
[13] C

[51] **Int.Cl. B61B 10/02 (2006.01)**

[25] EN

[54] **ADJUSTABLE TRANSFER MECHANISM FOR CONVEYORS**

[54] **MECANISME DE TRANSFERT AJUSTABLE DESTINE A DES CONVOYEURS**

[72] ANDREAE, BRADLEY S., US
[72] SCOVILLE, ANTHONY C., US
[73] SST SYSTEMS, INC., US
[86] (3026092)
[87] (3026092)
[22] 2018-11-30
[30] US (62/594,205) 2017-12-04

[11] **3,026,380**
[13] C

[51] **Int.Cl. C09K 8/54 (2006.01) C23F 11/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR CORROSION INHIBITOR MONITORING**

[54] **COMPOSITIONS ET PROCEDES DE SUIVI D'INHIBITEURS DE CORROSION**

[72] MOLONEY, JEREMY, US
[72] KUNDU, KOUSIK, US
[73] ECOLAB USA INC., US
[85] 2018-12-03
[86] 2017-06-08 (PCT/US2017/036540)
[87] (WO2017/214385)
[30] US (62/348,375) 2016-06-10

[11] **3,027,580**
[13] C

[51] **Int.Cl. G01F 11/08 (2006.01) B05B 11/04 (2006.01)**

[25] EN

[54] **PUMP HEAD AND METERING DEVICE**

[54] **TETE DE POMPAGE ET DISPOSITIF DE DOSAGE**

[72] LEE, HYECK-HEE, DE
[72] STEINFELD, UTE, DE
[72] MAHLER, MARKUS, DE
[72] HOLZER, FRANK, DE
[73] F. HOLZER GMBH, DE
[85] 2018-12-13
[86] 2017-06-01 (PCT/EP2017/063346)
[87] (WO2018/010890)
[30] DE (10 2016 212 892.2) 2016-07-14

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[11] **3,029,050**
[13] C

[51] **Int.Cl. G01N 15/1404 (2024.01) B05B 1/00 (2006.01) G01N 15/149 (2024.01)**

[25] EN

[54] **NOZZLE ASSEMBLY FOR A FLOW CYTOMETER SYSTEM AND METHODS OF MANUFACTURE**

[54] **ENSEMBLE BUSE D'UN SYSTEME DE CYTOMETRE DE FLUX ET PROCEDES DE FABRICATION**

[72] BUCHANAN, KRIS, US

[72] SHARPE, JOHNATHAN CHARLES, NZ

[72] EVANS, KENNETH MICHAEL, US

[73] INGURAN, LLC, US

[86] (3029050)

[87] (3029050)

[22] 2013-03-14

[62] 2,885,170

[30] US (61/703102) 2012-09-19

[11] **3,030,182**
[13] C

[51] **Int.Cl. G06F 1/3206 (2019.01) G06F 1/3296 (2019.01)**

[25] EN

[54] **TRIGGERING TRANSITION OF A DEVICE BETWEEN STATES**

[54] **DECLenchement D'UNE TRANSITION D'UN DISPOSITIF ENTRE DES ETATS**

[72] CHENNAKESHU, SANDEEP, US

[72] BENNETT, JESSE WILLIAM, US

[72] DILL, SCOTT LEONARD, CA

[73] BLACKBERRY LIMITED, CA

[85] 2019-01-07

[86] 2017-07-31 (PCT/US2017/044674)

[87] (WO2018/031279)

[30] US (15/231,456) 2016-08-08

[11] **3,030,228**
[13] C

[51] **Int.Cl. C08L 101/02 (2006.01) H01M 8/0271 (2016.01) C08L 23/22 (2006.01) C08L 83/05 (2006.01) F16J 15/14 (2006.01) H01M 8/02 (2016.01) H01M 8/10 (2016.01)**

[25] EN

[54] **CURABLE RESIN COMPOSITION, CURED PRODUCT, FUEL CELL, AND SEALING METHOD**

[54] **COMPOSITION DE RESINE DURCISSABLE, ARTICLE DURCI, PILE A COMBUSTIBLE, ET PROCEDE D'ETANCHEITE**

[72] SOGA, TETSUNORI, JP

[73] THREEBOND CO., LTD., JP

[85] 2019-01-08

[86] 2017-07-14 (PCT/JP2017/025803)

[87] (WO2018/012631)

[30] JP (2016-139077) 2016-07-14

[11] **3,031,140**
[13] C

[51] **Int.Cl. C08F 10/10 (2006.01) C08F 4/12 (2006.01) C08F 4/14 (2006.01) C08F 4/18 (2006.01) C08F 4/26 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING HIGH-REACTIVITY ISOBUTENE HOMO- OR COPOLYMERS**

[54] **PROCEDE DE PREPARATION D'HOMOPOLYMERES OU DE COPOLYMERES D'ISOBUTENE HAUTEMENT REACTIFS**

[72] CORBERAN ROC, ROSA, DE

[72] MUEHLBACH, KLAUS, DE

[72] WETTLING, THOMAS, DE

[72] KOSTJUK, SERGEI V., BY

[72] VASILENKO, IRINA, BY

[72] SHIMAN, DMITRYI, BY

[72] BERAZIANKA, IVAN, BY

[73] BASF SE, DE

[85] 2019-01-17

[86] 2017-07-14 (PCT/EP2017/067892)

[87] (WO2018/015306)

[30] EP (16180673.2) 2016-07-22

[11] **3,031,940**
[13] C

[51] **Int.Cl. B01J 23/68 (2006.01) B01J 23/652 (2006.01) B01J 29/03 (2006.01) B01J 37/03 (2006.01) C07D 301/03 (2006.01)**

[25] EN

[54] **CATALYSTS UTILIZING CARBON DIOXIDE FOR THE EPOXIDATION OF OLEFINS**

[54] **CATALYSEURS UTILISANT DU DIOXYDE DE CARBONE POUR L'EPOXYDATION D'OLEFINES**

[72] LAIL, MARTY, US

[72] MOBLEY, PAUL, US

[72] PETERS, JONATHAN, US

[72] AKUNURI, SREE NANDITA, US

[72] HLEBAK, JOSHUA J., US

[73] RESEARCH TRIANGLE INSTITUTE, US

[85] 2019-01-24

[86] 2017-07-26 (PCT/US2017/043921)

[87] (WO2018/022740)

[30] US (62/366,795) 2016-07-26

[11] **3,032,039**
[13] C

[51] **Int.Cl. C10G 3/00 (2006.01) C07C 51/47 (2006.01) C10G 25/00 (2006.01) C10G 25/02 (2006.01)**

[25] EN

[54] **METHODS FOR PRODUCING HYDROCARBON COMPOSITIONS WITH REDUCED ACID NUMBER AND FOR ISOLATING SHORT CHAIN FATTY ACIDS**

[54] **PROCEDES DE PRODUCTION DE COMPOSITIONS D'HYDROCARBURES A INDICE D'ACIDITE REDUIT ET D'ISOLEMENT D'ACIDES GRAS A CHAINE COURTE**

[72] BRESSLER, DAVID, CA

[73] FORGE HYDROCARBONS CORPORATION, CA

[85] 2019-01-25

[86] 2017-07-21 (PCT/IB2017/001072)

[87] (WO2018/020321)

[30] US (62/366,278) 2016-07-25

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[11] **3,033,389**
[13] C

[51] **Int.Cl. F21V 1/14 (2006.01) F21K 9/00 (2016.01) F21V 17/00 (2006.01)**
[25] EN
[54] **DIFFUSE LIGHTING DEVICES**
[54] **DISPOSITIFS D'ECLAIRAGE DIFFUS**
[72] MACALLEN, TODD P., CA
[72] FORSYTHE, STEPHANIE J., CA
[73] MOLO DESIGN, LTD., CA
[86] (3033389)
[87] (3033389)
[22] 2019-02-11
[30] US (62/799,389) 2019-01-31

[11] **3,034,422**
[13] C

[51] **Int.Cl. H02M 7/04 (2006.01) H02M 1/08 (2006.01) H02M 3/00 (2006.01) H02M 7/06 (2006.01)**
[25] EN
[54] **LINE POWER EXTENSION FOR CAPACITOR SIZE REPRODUCTION IN AC-DC CONVERTERS**
[54] **EXTENSION DE PUISSANCE DE LIGNE DESTINEE A LA REPRODUCTION DE LA TAILLE D'UN CONDENSATEUR DANS LES CONVERTISSEURS CA-CC**
[72] CHEN, YANG, CA
[72] LIU, YAN-FEI, CA
[73] QUEEN'S UNIVERSITY AT KINGSTON, CA
[86] (3034422)
[87] (3034422)
[22] 2019-02-20
[30] US (62/632,464) 2018-02-20

[11] **3,035,049**
[13] C

[51] **Int.Cl. G06Q 50/20 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MULTI-INSTITUTIONAL OPTIMIZATION FOR A CANDIDATE APPLICATION SYSTEM**
[54] **SYSTEME ET PROCEDE D'OPTIMISATION PLURI-INSTITUTIONNELLE POUR SYSTEME DEDEMANDES DES CANDIDATS**
[72] ALDWORTH, MICHAEL, CA
[72] GLASSFORD, JEFFREY, CA
[72] HESCH, WAYNE EDWARD JASON, CA
[72] O'SHEA, DARREN MACKENZIE, CA
[72] PROVENCHER, MARC ANDREW, CA
[72] ROBINSON, SHAWN MAURICE, CA
[72] SANGHERA, ALISHA, CA
[72] SCHNEIDER, KEVIN MICHAEL, CA
[72] WHITELEY, TUDOR ALEXANDER, CA
[72] WILLIAMSON, MICHAEL ARMAN, CA
[73] OCAS., CA
[86] (3035049)
[87] (3035049)
[22] 2019-02-27
[30] US (16/286676) 2019-02-27

[11] **3,035,277**
[13] C

[51] **Int.Cl. G06F 16/26 (2019.01) G06F 16/16 (2019.01) G06F 16/28 (2019.01)**
[25] EN
[54] **REAL-TIME DOCUMENT FILTERING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE FILTRAGE DE DOCUMENTS EN TEMPS REEL**
[72] PATERSON, GORDON SCOTT, CA
[72] BRADLEY, MICHAEL, CA
[72] ROSENBERG, BRAD, CA
[72] KO, KA FU, CA
[73] FUTUREVAULT INC., CA
[85] 2019-02-27
[86] 2017-02-28 (PCT/CA2017/050259)
[87] (WO2018/039772)
[30] US (62/383,293) 2016-09-02

[11] **3,035,873**
[13] C

[51] **Int.Cl. C10L 3/10 (2006.01)**
[25] EN
[54] **PRETREATMENT OF NATURAL GAS PRIOR TO LIQUEFACTION**
[54] **PRETRAITEMENT DE GAZ NATUREL AVANT LIQUEFACTION**
[72] GASKIN, THOMAS K., US
[72] YAMIN, FEREIDOUN, US
[72] GUVELIOGLU, GALIP, US
[72] PALACIOS, VANESSA, US
[73] LUMMUS TECHNOLOGY INC., US
[85] 2019-03-05
[86] 2017-04-06 (PCT/US2017/026464)
[87] (WO2018/048478)
[30] US (15/257,100) 2016-09-06

[11] **3,036,306**
[13] C

[51] **Int.Cl. A61K 38/13 (2006.01) A61K 9/00 (2006.01) A61K 47/06 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **OPHTHALMIC COMPOSITIONS COMPRISING CICLOSPORIN**
[54] **COMPOSITIONS OPHTALMIQUES CONTENANT DE LA CYCLOSPORINE**
[72] LOSCHER, FRANK, DE
[72] GRILLENBERGER, RALF, DE
[72] ENGBLOM, JOHAN, SE
[73] NOVALIQ GMBH, DE
[85] 2019-03-08
[86] 2017-09-22 (PCT/EP2017/074079)
[87] (WO2018/055101)
[30] EP (16190431.3) 2016-09-23

[11] **3,036,973**
[13] C

[51] **Int.Cl. G06K 19/07 (2006.01) G06K 19/077 (2006.01) H01Q 1/04 (2006.01)**
[25] EN
[54] **IDENTIFICATION SENSOR FOR STRUCTURES BURIED AT GREAT DEPTH**
[54] **CAPTEUR D'IDENTIFICATION POUR OUVRAGES ENFOUIS A GRANDE PROFONDEUR**
[72] LE BASTARD, LUDOVIC, FR
[72] NIVON, THIERRY, FR
[72] PALOMARES, MARC, FR
[73] ELIOT INNOVATIVE SOLUTIONS S.A.S., FR
[85] 2019-03-14
[86] 2017-09-22 (PCT/EP2017/074142)
[87] (WO2018/055141)
[30] FR (16/01392) 2016-09-23

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[11] **3,038,687**
[13] C

[51] **Int.Cl. C08K 3/22 (2006.01) B29C 35/02 (2006.01) B60C 1/00 (2006.01) C08F 210/02 (2006.01) C08J 3/24 (2006.01) C08J 5/00 (2006.01) C08K 3/06 (2006.01) C08K 5/00 (2006.01) C08K 9/04 (2006.01) C08L 7/00 (2006.01) C08L 9/06 (2006.01) C08L 23/22 (2006.01) C08L 25/06 (2006.01) C09C 1/28 (2006.01) C09J 123/08 (2006.01) D21D 1/34 (2006.01)**

[25] EN

[54] **PROCESS FOR TREATING DREGS, TREATED DREGS, USE THEREOF, PROCESS FOR VULCANIZING RUBBER, AND VULCANIZED RUBBER**

[54] **PROCEDE DE TRAITEMENT DE RESIDU, RESIDU TRAITÉ, SON UTILISATION, PROCEDE DE VULCANISATION DE CAOUTCHOUC, ET CAOUTCHOUC VULCANISÉ**

[72] SCODRO, SANDRO ANTONIO, BR

[73] OXITEC PARTICIPACAO E GESTAO DE ATIVOS NAO FINANCEIROS LTDA., BR

[85] 2019-03-28

[86] 2017-09-27 (PCT/BR2017/050283)

[87] (WO2018/058219)

[30] BR (BR102016022898-0) 2016-09-30

[11] **3,040,389**
[13] C

[51] **Int.Cl. F17C 13/00 (2006.01) F16L 41/16 (2006.01) F17D 5/00 (2006.01)**

[25] EN

[54] **VESSEL AND PIPELINE INSERTION TOOL**

[54] **RECIPIENT ET OUTIL D'INSERTION DE PIPELINE**

[72] NOWAK, DAVID, US

[72] PLISKA, NATHAN, US

[73] SENTRY EQUIPMENT CORP., US

[86] (3040389)

[87] (3040389)

[22] 2019-04-16

[30] US (16/361,872) 2019-03-22

[11] **3,042,791**
[13] C

[51] **Int.Cl. F16M 13/02 (2006.01) B25B 5/04 (2006.01) B25B 5/10 (2006.01) F16B 2/10 (2006.01)**

[25] EN

[54] **POLE CLAMP**

[54] **PINCE DE POTEAU**

[72] HERMANN, CARL, US

[72] CAYWOOD, RONALD JESSE, US

[73] GCX CORPORATION, US

[86] (3042791)

[87] (3042791)

[22] 2019-05-09

[30] US (16/001,583) 2018-06-06

[11] **3,043,258**
[13] C

[51] **Int.Cl. B66F 3/35 (2006.01) B66F 5/04 (2006.01) E04F 21/00 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR POSITIONING AN OBJECT RELATIVELY TO A SUPPORT BY INFLATABLE AIR CUSHION MEMBERS**

[54] **METHODE ET DISPOSITIF POUR POSITIONNER UN OBJET RELATIVEMENT A UN SUPPORT AU MOYEN D'ELEMENTS DE COUSSINS GONFLABLES**

[72] DISSING, CLAUS HORNSTRUP, DK

[73] DISSING A/S, DK

[85] 2019-05-08

[86] 2017-11-10 (PCT/DK2017/050368)

[87] (WO2018/086668)

[30] DK (PA 2016 70897) 2016-11-11

[30] US (62/420,638) 2016-11-11

[11] **3,043,683**
[13] C

[51] **Int.Cl. E03D 9/00 (2006.01)**

[25] EN

[54] **TOILET ANTI-SPLASH DEVICE**

[54] **DISPOSITIF ANTI-ECLABOUSSURES POUR TOILETTES**

[72] MOSCOVITS, SHAHAR, IL

[72] MOSKOVICH, DORON, IL

[73] MOSKOVITS INVENTIONS LTD., IL

[85] 2019-05-13

[86] 2017-12-14 (PCT/IL2017/051349)

[87] (WO2018/109768)

[30] IL (249611) 2016-12-16

[11] **3,043,998**
[13] C

[51] **Int.Cl. C01B 35/00 (2006.01) C01B 35/10 (2006.01)**

[25] EN

[54] **COMPOSITION AND METHOD FOR MAKING PICOCRYSTALLINE ARTIFICIAL BORANE ATOMS**

[54] **COMPOSITION ET PROCEDE DE PREPARATION D'ATOMES BORANES ARTIFICIELS PICOCRISTALLINS**

[72] CURRAN, PATRICK, US

[73] SEMINUCLEAR, INC., US

[85] 2019-05-15

[86] 2016-11-29 (PCT/US2016/063933)

[87] (WO2018/101905)

[11] **3,044,076**
[13] C

[51] **Int.Cl. B03C 1/12 (2006.01) B03C 1/06 (2006.01)**

[25] EN

[54] **PLANAR MAGNETIC SEPARATOR**

[54] **SEPARATEUR MAGNETIQUE PLAT**

[72] KELSEY, CHRISTOPHER GEORGE, AU

[73] CYCLOMAG PTY LIMITED, AU

[85] 2019-05-16

[86] 2017-11-28 (PCT/AU2017/051306)

[87] (WO2018/112509)

[30] AU (2016905260) 2016-12-20

[30] AU (2017900466) 2017-02-14

**Brevets canadiens délivrés
14 mai 2024**

[11] **3,044,217**
[13] C

- [51] **Int.Cl. H01F 41/06 (2016.01) G05B 19/042 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR MANUFACTURING CONTINUOUSLY TRANPOSED CABLE USING MULTIPLE LINEAR ACTUATORS**
[54] **APPAREIL ET PROCÉDE DE FABRICATION DE CÂBLE A CONDUCTEURS TRANSPOSES EN CONTINU AU MOYEN DE PLUSIEURS ACTIONNEURS LINEAIRES**
[72] PARK, SUN GI, KR
[73] SAM DONG CO., LTD., KR
[73] PARK, SUN GI, KR
[85] 2019-05-16
[86] 2016-11-08 (PCT/KR2016/012777)
[87] (WO2017/086641)
[30] KR (10-2015-0161188) 2015-11-17

[11] **3,044,457**
[13] C

- [51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **ANTI-CD300F ANTIBODY AND USES THEREOF**
[54] **ANTICORPS ANTI-CD300F ET SES UTILISATIONS**
[72] HART, DEREK NIGEL JOHN, AU
[72] CLARK, GEORGINA JANE, AU
[72] GASIOROWSKI, ROBIN, AU
[73] DENDROCYTE BIOTECH PTY LTD, AU
[85] 2019-05-21
[86] 2017-11-22 (PCT/AU2017/051288)
[87] (WO2018/094460)
[30] AU (2016904779) 2016-11-22

[11] **3,045,371**
[13] C

- [51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/506 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61K 31/52 (2006.01) A61K 31/5377 (2006.01) A61K 45/06 (2006.01) A61P 31/16 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **INHIBITORS OF INFLUENZA VIRUS REPLICATION AND USES THEREOF**
[54] **INHIBITEURS DE REPLICATION DU VIRUS DE LA GRIPPE ET UTILISATIONS ASSOCIEES**
[72] TANG, CHANGHUA, CN
[72] REN, QINGYUN, CN
[72] YIN, JUNJUN, CN
[72] YI, KAI, CN
[72] LEI, YIBO, CN
[72] WANG, YEJUN, CN
[72] ZHANG, YINGJUN, CN
[73] SUNSHINE LAKE PHARMA CO., LTD., CN
[85] 2019-05-29
[86] 2017-12-14 (PCT/CN2017/116154)
[87] (WO2018/108125)
[30] CN (201611158754.5) 2016-12-15

[11] **3,045,616**
[13] C

- [51] **Int.Cl. B22C 9/10 (2006.01) B29C 64/124 (2017.01) B22C 1/00 (2006.01) B22D 29/04 (2006.01) F01D 5/16 (2006.01) F01D 5/18 (2006.01) F01D 5/28 (2006.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE FOR MAKING CAST COMPONENT WITH NON-LINEAR HOLES**
[54] **STRUCTURE DE MOULAGE A NOYAU-COQUE INTEGRES PERMETTANT DE FABRIQUER UN COMPOSANT COULE LINEAIRES**
[72] GARAY, GREGORY TERRENCE, US
[72] YANG, XI, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-10-24 (PCT/US2017/057944)
[87] (WO2018/111407)
[30] US (15/377,787) 2016-12-13

[11] **3,045,618**
[13] C

- [51] **Int.Cl. B22C 9/24 (2006.01) B22C 9/04 (2006.01) B22C 9/08 (2006.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE AND FILTER FOR MAKING CAST COMPONENT**
[54] **STRUCTURE COEUR-ECORCE DE COULEE INTEGREE ET FILTRE POUR LA FABRICATION D'UN COMPOSANT COULE**
[72] YANG, XI, US
[72] DEINES, JAMES HERBERT, US
[72] MCCARREN, MICHAEL JOHN, US
[72] PRZESLAWSKI, BRIAN DAVID, US
[72] PETERSON, BRIAN PATRICK, US
[72] GARAY, GREGORY TERRENCE, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-11-06 (PCT/US2017/060165)
[87] (WO2018/111438)
[30] US (15/377,759) 2016-12-13

[11] **3,045,933**
[13] C

- [51] **Int.Cl. H03M 13/00 (2006.01)**
[25] EN
[54] **DYNAMIC FROZEN POLAR CODES**
[54] **CODES POLAIRES A BITS GELES DYNAMIQUES**
[72] LI, JIAN, US
[72] XU, CHANGLONG, US
[72] WEI, CHAO, US
[72] HOU, JILEI, US
[72] JIANG, JING, US
[73] QUALCOMM INCORPORATED, US
[85] 2019-06-03
[86] 2018-01-16 (PCT/CN2018/072761)
[87] (WO2018/130221)
[30] CN (PCT/CN2017/071255) 2017-01-16

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[11] **3,046,412**
[13] C

[51] **Int.Cl. H04B 7/185 (2006.01) H04W 12/02 (2009.01) H04L 9/16 (2006.01)**

[25] EN

[54] **RELAY PLATFORM FOR COMMUNICATING TELEMETRY DATA FROM ONE OR MORE MOVING OBSERVATION SATELLITE(S) TO THE GROUND**

[54] **PLATEFORME-RELAIS DE COMMUNICATION DE DONNEES DE TELEMESURES DEPUIS UN OU PLUSIEURS SATELLITE(S) D'OBSERVATION DEFILANT(S) VERS LE SOL**

[72] MARTINERIE, FRANCIS, FR
[72] SAINCT, HERVE, FR
[72] TARIDE, SERGE, FR
[72] GAYRARD, JEAN DIDIER, FR
[73] THALES, FR
[85] 2019-06-07
[86] 2017-10-12 (PCT/EP2017/076065)
[87] (WO2018/103926)
[30] FR (1601749) 2016-12-08

[11] **3,047,284**
[13] C

[51] **Int.Cl. C10M 141/06 (2006.01) C10M 133/12 (2006.01)**

[25] EN

[54] **LUBRICATING COMPOSITION WITH ALKYLATED NAPHTHYLAMINE**

[54] **COMPOSITION LUBRIFIANTE COMPORTANT UNE NAPHTHYLAMINE ALKYLEE**

[72] HANTHORN, JASON J., US
[72] ZHANG, YANSHI, US
[73] THE LUBRIZOL CORPORATION, US
[85] 2019-06-14
[86] 2017-12-13 (PCT/US2017/066088)
[87] (WO2018/125567)
[30] US (62/439,231) 2016-12-27

[11] **3,048,080**
[13] C

[51] **Int.Cl. B61D 37/00 (2006.01) B61C 17/00 (2006.01)**

[25] EN

[54] **AN ARRANGEMENT AND METHOD FOR LOCKING A CABINET OF A VEHICLE**

[54] **CONFIGURATION ET METHODE POUR VERROUILLER UNE ARMOIRE D'UN VEHICULE**

[72] VEDHOLM, JONAS, SE
[73] BOMBARDIER TRANSPORTATION GMBH, DE
[85] 2019-06-21
[86] 2017-12-19 (PCT/EP2017/083667)
[87] (WO2018/115030)
[30] EP (16206383.8) 2016-12-22

[11] **3,049,008**
[13] C

[51] **Int.Cl. A61M 25/01 (2006.01) A61F 2/95 (2013.01)**

[25] EN

[54] **DEVICE FOR SAFE POSITIONING A CORONARY STENT WITHIN CORONARY ARTERIES AND METHOD THEREFOR**

[54] **DISPOSITIF ET PROCEDE DE POSITIONNEMENT SECURISE D'UN STENT CORONAIRE DANS DES ARTERES CORONAIRES**

[72] TRAPEZNIKOV, VLADIMIR BORISOVICH, RU
[73] SEVEN SONS LTD. R.N. 515985570 (THE "COMPANY"), IL
[85] 2019-06-28
[86] 2017-07-27 (PCT/RU2017/000555)
[87] (WO2018/190745)
[30] RU (2017112500) 2017-04-12

[11] **3,049,185**
[13] C

[51] **Int.Cl. C08J 5/04 (2006.01) B82Y 30/00 (2011.01) C08K 3/01 (2018.01) B32B 7/025 (2019.01) B32B 27/04 (2006.01) B64C 1/12 (2006.01) B64C 3/26 (2006.01) B64D 45/02 (2006.01) C08L 63/00 (2006.01) H02G 13/00 (2006.01)**

[25] EN

[54] **INTEGRATED SURFACE PROTECTION SYSTEM, COMPOSITE STRUCTURE, AND METHOD FOR PROTECTING THE SAME**

[54] **SYSTEME INTEGRE DE PROTECTION DE SURFACE, STRUCTURE COMPOSITE ET PROCEDE POUR LA PROTECTION DE CELLE-CI**

[72] AYYADURAI, MARY S., US
[72] KOLTENBAH, BENJAMIN E. C., US
[72] LE, QUYNHGIOAO N., US
[73] THE BOEING COMPANY, US
[86] (3049185)
[87] (3049185)
[22] 2019-07-11
[30] US (16/116009) 2018-08-29

[11] **3,049,493**
[13] C

[51] **Int.Cl. H04L 27/26 (2006.01) H04L 5/00 (2006.01)**

[25] EN

[54] **PHASE TRACKING REFERENCE SIGNAL PROCESSING METHOD AND APPARATUS**

[54] **PROCEDE ET APPAREIL DE TRAITEMENT DE SIGNAL DE REFERENCE DE SUIVI DE PHASE**

[72] ZHANG, XI, CN
[72] LIU, FENGWEI, CN
[72] CHEN, LEI, CN
[72] XU, MINGHUI, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-07-05
[86] 2018-06-14 (PCT/CN2018/091203)
[87] (WO2018/228460)
[30] CN (201710457990.5) 2017-06-16
[30] CN (201710920338.2) 2017-09-30

Brevets canadiens délivrés
14 mai 2024

[11] **3,050,057**

[13] C

- [51] **Int.Cl. A61K 8/19 (2006.01) A61K 8/24 (2006.01) A61K 8/27 (2006.01) A61K 8/29 (2006.01) A61Q 17/04 (2006.01)**
- [25] EN
- [54] **FUNCTIONALIZED CALCIUM CARBONATE FOR SUN PROTECTION BOOSTING**
- [54] **CARBONATE DE CALCIUM FONCTIONNALISE POUR AMPLIFICATION DE PROTECTION SOLAIRE**
- [72] BUDDE, TANJA, CH
- [72] HECKER, ANAIS, CH
- [73] OMYA INTERNATIONAL AG, CH
- [85] 2019-07-12
- [86] 2018-02-02 (PCT/EP2018/052616)
- [87] (WO2018/146006)
- [30] EP (17155425.6) 2017-02-09
- [30] US (62/459,667) 2017-02-16

[11] **3,053,420**

[13] C

- [51] **Int.Cl. A47G 23/16 (2006.01) B65D 43/02 (2006.01) G01B 7/30 (2006.01) G01D 21/02 (2006.01)**
- [25] EN
- [54] **APPARATUS AND METHOD FOR MEASURING FLUID CONSUMPTION**
- [54] **APPAREIL ET PROCEDE DE MESURE DE CONSOMMATION DE FLUIDE**
- [72] MEBBERSON, NICHOLAS, AU
- [73] PURATAP PTY LTD, AU
- [85] 2019-08-13
- [86] 2018-03-29 (PCT/AU2018/050293)
- [87] (WO2018/176097)
- [30] AU (2017901134) 2017-03-29

[11] **3,053,895**

[13] C

- [51] **Int.Cl. A23G 1/00 (2006.01)**
- [25] EN
- [54] **HIGHLY POLYUNSATURATED FATTY ACID-CONTAINING CHOCOLATE-LIKE FOOD PRODUCT WHEREIN GENERATION OF OFF-FLAVOR IS SUPPRESSED**
- [54] **PRODUIT ALIMENTAIRE DE TYPE CHOCOLAT CONTENANT UN ACIDE GRAS HAUTEMENT POLYINSATURE, DANS LEQUEL LA PRODUCTION D'UN MAUVAIS GOUT EST SUPPRIMEE**
- [72] ISHIWATA, AKIYUKI, JP
- [72] MORIKAWA, MIWAKO, JP
- [72] KATO, MASAHARU, JP
- [72] YOSHINO, YURIKO, JP
- [73] FUJI OIL HOLDINGS INC., JP
- [85] 2019-08-16
- [86] 2018-01-09 (PCT/JP2018/000143)
- [87] (WO2018/173419)
- [30] JP (2017-053863) 2017-03-21

[11] **3,055,978**

[13] C

- [51] **Int.Cl. H04L 9/00 (2022.01) H04L 12/22 (2006.01)**
- [25] EN
- [54] **PRIORITIZED REMEDIATION OF INFORMATION SECURITY VULNERABILITIES BASED ON SERVICE MODEL AWARE MULTI-DIMENSIONAL SECURITY RISK SCORING**
- [54] **CORRECTION PRIORITAIRE DES VULNERABILITES EN MATIERE DE SECURITE DE L'INFORMATION SUR LA BASE D'UNE NOTATION MULTIDIMENSIONNELLE DES RISQUES DE SECURITE TENANT COMPTE DU MODELE DE SERVICE**
- [72] IYER, G. S. NARAYAN, US
- [72] KUMAR, AJOY, US
- [72] GUPTA, AMIT, US
- [73] BMC SOFTWARE, INC., US
- [86] (3055978)
- [87] (3055978)
- [22] 2019-09-19
- [30] US (16/194,735) 2018-11-19

[11] **3,056,318**

[13] C

- [51] **Int.Cl. H04W 72/40 (2023.01) H04W 92/10 (2009.01) H04W 4/40 (2018.01)**
- [25] EN
- [54] **RESOURCE CONFIGURATIONS AND SCHEDULING OF DIRECT TRANSMISSIONS IN MULTI-NETWORK ENVIRONMENTS**
- [54] **CONFIGURATIONS DE RESSOURCES ET PROGRAMMATION D'EMISSIONS DIRECTES DANS DES ENVIRONNEMENTS MULTI-RESEAUX**
- [72] BARRETT, STEPHEN JOHN, CA
- [72] FAURIE, RENE, CA
- [72] VUTUKURI, ESWAR, CA
- [72] YOUNG, GORDON PETER, CA
- [73] BLACKBERRY LIMITED, CA
- [85] 2019-09-12
- [86] 2017-05-10 (PCT/IB2017/000709)
- [87] (WO2018/206992)

[11] **3,056,806**

[13] C

- [51] **Int.Cl. B60R 21/015 (2006.01) B60N 2/75 (2018.01) B60J 1/20 (2006.01) B60N 2/22 (2006.01) B60N 3/00 (2006.01) B60R 16/023 (2006.01) B64D 11/00 (2006.01) B64D 11/06 (2006.01)**
- [25] EN
- [54] **SYSTEMS AND METHODS FOR DETERMINATION OF SEATING SYSTEM STATUS**
- [54] **SYSTEMES ET METHODES POUR LA DETERMINATION DE L'ETAT DE SYSTEME DE SIEGE**
- [72] PEREZ, VICTOR ARINO, US
- [73] SAFRAN PASSENGER INNOVATIONS, LLC, US
- [85] 2019-09-16
- [86] 2018-03-16 (PCT/US2018/022918)
- [87] (WO2018/170427)
- [30] US (62/472,237) 2017-03-16

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[11] **3,056,815**
[13] C

[51] **Int.Cl. C07D 207/14 (2006.01) A61K 31/343 (2006.01) A61K 31/4045 (2006.01) A61K 31/416 (2006.01) A61K 31/4245 (2006.01) A61K 31/428 (2006.01) A61K 31/429 (2006.01) A61K 31/472 (2006.01) A61P 31/04 (2006.01) C07D 215/12 (2006.01) C07D 217/12 (2006.01) C07D 231/12 (2006.01) C07D 235/14 (2006.01) C07D 263/56 (2006.01) C07D 277/64 (2006.01) C07D 307/81 (2006.01) C07D 319/20 (2006.01) C07D 333/64 (2006.01) C07D 413/06 (2006.01) C07D 417/04 (2006.01) C07D 487/10 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **CHEMICAL COMPOUNDS AS ANTIBIOTICS**

[54] **COMPOSES CHIMIQUES UTILISES COMME ANTIBIOTIQUES**

[72] LEIRIS, SIMON, FR
[72] DAVIES, DAVID THOMAS, FR
[72] EVERETT, MARTIN, FR
[72] SPRYNSKI, NICOLAS, FR
[72] SUTTON, JONATHAN MARK, GB
[72] BODNARCHUK, MICHAEL STEVEN, GB

[72] PALLIN, THOMAS DAVID, GB
[72] CRIDLAND, ANDREW PETER, GB
[72] BLENCH, TOBY JONATHAN, GB
[72] CLARK, DAVID EDWARD, GB
[72] ELLIOTT, RICHARD LEONARD, GB
[72] BEYRIA, LILHA, FR
[73] ANTABIO SAS, FR
[85] 2019-09-17
[86] 2018-03-21 (PCT/EP2018/057201)
[87] (WO2018/172423)
[30] GB (1704476.9) 2017-03-21

[11] **3,057,069**
[13] C

[51] **Int.Cl. B01J 47/12 (2017.01) B01D 15/04 (2006.01)**

[25] EN

[54] **ION-EXCHANGE MEMBRANE HAVING AN IMPRINTED NON-WOVEN SUBSTRATE**

[54] **MEMBRANE ECHANGEUSE D'IONS PRESENTANT UN SUBSTRAT NON TISSE IMPRIME**

[72] ZHAO, YONGHONG, SG
[72] BARBER, JOHN H., CA
[73] BL TECHNOLOGIES, INC., US
[85] 2019-09-18
[86] 2017-03-20 (PCT/US2017/023214)
[87] (WO2018/174848)

[11] **3,057,755**
[13] C

[51] **Int.Cl. C22B 3/08 (2006.01) C22B 7/04 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **PROCESS FOR THE RECOVERY OF LITHIUM**

[54] **PROCEDE DE RECUPERATION DE LITHIUM**

[72] OOSTERHOF, HARALD, BE
[72] DUPONT, DAVID, BE
[72] DROUARD, WENDY, BE
[73] UMICORE, BE
[85] 2019-09-24
[86] 2018-03-26 (PCT/EP2018/057569)
[87] (WO2018/184876)
[30] EP (17165533.5) 2017-04-07

[11] **3,058,118**
[13] C

[51] **Int.Cl. A61M 5/178 (2006.01) A61M 5/19 (2006.01) A61M 5/28 (2006.01) A61M 5/32 (2006.01)**

[25] EN

[54] **SYRINGE SYSTEMS AND METHODS FOR MULTI-STAGE FLUID DELIVERY**

[54] **SYSTEME DE SERINGUE ET PROCEDE D'ADMINISTRATION DE FLUIDES MULTIPLES**

[72] HOPKINS, MICHAEL, US
[73] TRUE CONCEPTS MEDICAL TECHNOLOGIES, LLC, US
[85] 2019-09-26
[86] 2017-06-15 (PCT/US2017/037789)
[87] (WO2017/218848)
[30] US (62/350,341) 2016-06-15
[30] US (15/624,593) 2017-06-15

[11] **3,059,266**
[13] C

[51] **Int.Cl. B65D 47/08 (2006.01) B65D 50/04 (2006.01)**

[25] EN

[54] **CLOSURE WITH COVER CAP**

[54] **ELEMENT DE FERMETURE A CAPUCHON**

[72] WOHLGENANNT, HERBERT, CH
[73] CAPARTIS AG, CH
[85] 2019-10-07
[86] 2018-04-10 (PCT/EP2018/059097)
[87] (WO2018/192797)
[30] CH (00535/17) 2017-04-21

[11] **3,062,522**
[13] C

[51] **Int.Cl. G01F 11/06 (2006.01)**

[25] EN

[54] **DOSING DEVICE FOR A LIQUID SUPPLY WITH NECK**

[54] **DISPOSITIF DE DOSAGE POUR L'ALIMENTATION EN LIQUIDE AVEC BUSE**

[72] WOHLGENANNT, HERBERT, CH
[73] CAPARTIS AG, CH
[85] 2019-11-05
[86] 2018-05-18 (PCT/EP2018/063227)
[87] (WO2018/211125)
[30] EP (17172085.7) 2017-05-19

[11] **3,062,803**
[13] C

[51] **Int.Cl. H04W 4/30 (2018.01) H04W 4/021 (2018.01) H04W 4/38 (2018.01)**

[25] EN

[54] **IDENTIFICATION, LOCATION, AND AUTHENTICATION SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES D'IDENTIFICATION, DE LOCALISATION ET D'AUTHENTIFICATION**

[72] DE WITT, GREGORY TAYLOR, US
[72] MUNTEANU, EUGEN, US
[73] CLOUDTRAQ LLC, US
[86] (3062803)
[87] (3062803)
[22] 2016-05-20
[62] 2,986,572
[30] US (62/165,140) 2015-05-21
[30] US (62/165,142) 2015-05-21
[30] US (62/165,138) 2015-05-21
[30] US (62/165,134) 2015-05-21

[11] **3,062,918**
[13] C

[51] **Int.Cl. F16B 13/12 (2006.01)**

[25] EN

[54] **WALLBOARD ANCHOR**

[54] **ANCRE DE PANNEAU MURAL**

[72] FAGHIDI, HAMID, US
[72] GARIKAPATI, NALINIKANTH, US
[72] HICKS, MICHAEL MARTIN, US
[73] THE HILLMAN GROUP, INC., US
[86] (3062918)
[87] (3062918)
[22] 2019-11-27
[30] US (62/774,187) 2018-12-01

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14 mai 2024**

[11] **3,063,030**
[13] C

[51] **Int.Cl. F24F 11/70 (2018.01) F24F 3/14 (2006.01) F24F 13/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR UTILIZING A BYPASS HUMIDIFIER FOR DEHUMIDIFICATION DURING COOLING**
[54] **PROCEDE ET SYSTEME D'UTILISATION D'HUMIDIFICATEUR AVEC DERIVATION POUR DESHUMIDIFICATION PENDANT LE REFROIDISSEMENT**
[72] GOEL, RAKESH, US
[72] PEREZ, ERIC, US
[72] BERG, ERIC, US
[73] LENNOX INDUSTRIES INC., US
[86] (3063030)
[87] (3063030)
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[30] US (16/208,858) 2018-12-04

[11] **3,065,404**
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[25] EN
[54] **PROCESS FOR MAKING EDIBLE OIL-CONTINUOUS EMULSIONS**
[54] **PROCEDE DE PRODUCTION D'EMULSIONS HUILE-PHASE CONTINUE COMESTIBLES**
[72] VAN MALSSSEN, KEES FREDERIK, NL
[72] MEEUSE, FREDERIK MICHIEL, NL
[72] POTMAN, RONALD PETER, NL
[73] UPFIELD EUROPE B.V., NL
[85] 2019-11-28
[86] 2018-04-10 (PCT/EP2018/059168)
[87] (WO2018/224203)
[30] EP (17174783.5) 2017-06-07

[11] **3,066,261**
[13] C

[51] **Int.Cl. B65G 67/02 (2006.01)**
[25] EN
[54] **AUTOMATED LOADING OF DELIVERY VEHICLES USING AUTOMATED GUIDED VEHICLES**
[54] **CHARGEMENT AUTOMATISE DE VEHICULES DE LIVRAISON A L'AIDE DE VEHICULES A GUIDAGE AUTOMATIQUE**
[72] JARVIS, DANIEL, US
[72] AMADOR, PAOLO GERIL, US
[72] BHASKARAN, MICHAEL, US
[72] KALRA, AMIT, US
[73] STAPLES, INC., US
[86] (3066261)
[87] (3066261)
[22] 2019-12-27
[30] US (16/237645) 2018-12-31

[11] **3,066,375**
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[51] **Int.Cl. H04W 24/00 (2009.01) H04B 17/336 (2015.01) H04L 27/38 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR WIRELESS SIGNAL CLASSIFICATION**
[54] **SYSTEMES ET PROCEDES DE CLASSIFICATION DE SIGNAUX MOBILES**
[72] ZHA, WEI, US
[72] WANG, GANG, US
[73] PCTEL, INC., US
[86] (3066375)
[87] (3066375)
[22] 2019-12-31
[30] US (16/238,337) 2019-01-02

[11] **3,066,380**
[13] C

[51] **Int.Cl. A47K 5/12 (2006.01) A47K 10/36 (2006.01)**
[25] EN
[54] **HANDS-FREE FLOWABLE MATERIAL DISPENSERS AND RELATED METHODS**
[54] **DISTRIBUTEURS DE MATERIAU FLUIDE MAINS LIBRES ET PROCEDES ASSOCIES**
[72] BORKE, BRIAN S., US
[73] GPCP IP HOLDINGS LLC, US
[85] 2019-12-05
[86] 2018-06-15 (PCT/US2018/037811)
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[30] US (15/640,153) 2017-06-30

[11] **3,068,123**
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[25] FR
[54] **METHOD FOR PRODUCING SILICONE ELASTOMER MOULDS**
[54] **PROCEDE DE FABRICATION DE MOULES EN ELASTOMERE SILICONE**
[72] MARIOT, DAVID, FR
[72] MALIVERNEY, CHRISTIAN, FR
[72] PELLE, AURELIE, FR
[73] ELKEM SILICONES FRANCE SAS, FR
[85] 2019-12-20
[86] 2018-06-28 (PCT/FR2018/000180)
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[30] FR (1700692) 2017-06-29

[11] **3,068,714**
[13] C

[51] **Int.Cl. B29C 70/38 (2006.01)**
[25] EN
[54] **AUTOMATED FIBER-PLACEMENT SYSTEMS AND METHODS AND ARTICLES PRODUCED THEREFROM**
[54] **SYSTEMES ET PROCEDES DE PLACEMENT AUTOMATISE DE FIBRES ET ARTICLES PRODUITS A PARTIR DE CELLES-CI**
[72] JOHNSON, BRICE A., US
[72] GHOSE, SAYATA, US
[72] MALIK, KEVIN F., US
[73] THE BOEING COMPANY, US
[86] (3068714)
[87] (3068714)
[22] 2020-01-17
[30] US (16/363691) 2019-03-25

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[51] **Int.Cl. G01C 21/36 (2006.01) H04W 4/02 (2018.01) G06F 15/173 (2006.01) H04L 67/12 (2022.01)**

[25] EN

[54] **NETWORKED PERSONAL WEATHER DEVICES AND RELATED METHODS FOR PROVIDING WEATHER INFORMATION**

[54] **DISPOSITIFS METEOROLOGIQUES PERSONNELS EN RESEAU ET PROCEDES ASSOCIES PERMETTANT DE FOURNIR DES INFORMATIONS METEOROLOGIQUES**

[72] REICHMUTH, RICHARD, US

[72] MCCOTTRY, II, JONATHAN EDWARD, US

[72] AGASSINI, IVAN ALEJANDRO HERRERA, MX

[73] WEATHERMAN, INC., US

[85] 2020-01-17

[86] 2018-07-20 (PCT/US2018/043187)

[87] (WO2019/018825)

[30] US (62/535,203) 2017-07-20

[11] **3,070,785**
[13] C

[51] **Int.Cl. C04B 35/03 (2006.01) C04B 35/043 (2006.01) C04B 35/626 (2006.01) C04B 35/63 (2006.01) C04B 35/66 (2006.01) C04B 38/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A POROUS SINTERED MAGNESIA, BATCH FOR PRODUCING A COARSE CERAMIC REFRACTORY PRODUCT HAVING A GRANULAR MATERIAL MADE OF THE SINTERED MAGNESIA, SUCH A PRODUCT AND METHOD FOR ITS PRODUCTION, LINING OF AN INDUSTRIAL FURNACE, AND INDUSTRIAL FURNACE**

[54] **PROCEDE POUR LA FABRICATION D'UNE MAGNESIE FRITTEE POREUSE, MELANGE POUR LA FABRICATION D'UN PRODUIT REFRACTAIRE EN CERAMIQUE GROSSIERE AYANT UNE GRANULOMETRIE A PARTIR DE LA MAGNESIE FRITTEE, UN TEL PRODUIT AINSI QUE PROCEDE POUR SA FABRICATION, DISPOSITION D'UN FOUR INDUSTRIEL ET FOUR INDUSTRIEL**

[72] KLISCHAT, HANS-JURGEN, DE

[72] PLUMMER, ROBERT, CN

[72] VELLMER, CARSTEN, DE

[72] WIRSING, HOLGER, DE

[73] REFRATECHNIK HOLDING GMBH, DE

[85] 2020-01-22

[86] 2018-09-13 (PCT/EP2018/074817)

[87] (WO2019/053167)

[30] DE (10 2017 121 452.6) 2017-09-15

[11] **3,071,801**
[13] C

[51] **Int.Cl. H04L 45/74 (2022.01) H04L 61/2514 (2022.01) H04L 61/2592 (2022.01)**

[25] EN

[54] **VIRTUALIZED NETWORK FUNCTIONS THROUGH ADDRESS SPACE AGGREGATION**

[54] **FONCTIONS DE RESEAU VIRTUALISEES PAR AGREGATION D'ESPACE ADRESSABLE**

[72] RAZA, SYED KHALID, US

[72] ATTARWALA, MURTUZA, US

[73] CISCO TECHNOLOGY, INC., US

[85] 2020-01-31

[86] 2018-07-25 (PCT/US2018/043618)

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[30] US (15/664,869) 2017-07-31

[11] **3,074,189**
[13] C

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[25] EN

[54] **CONTAINER ASSEMBLY**

[54] **ENSEMBLE DE RESERVOIRS**

[72] MACORETTA, FEDERICO, US

[72] NISHIJIMA, RICK T., US

[72] DONOVAN, MADELINE A., US

[72] BELL, RUSSELL E., US

[72] YAU, PIERCY, US

[73] BRITA LP, US

[86] (3074189)

[87] (3074189)

[22] 2020-02-28

[30] US (62/812,704) 2019-03-01

[30] US (16/801,891) 2020-02-26

[11] **3,074,628**
[13] C

[51] **Int.Cl. G01S 17/10 (2020.01) G01S 7/4865 (2020.01)**

[25] EN

[54] **METHOD AND DEVICE FOR OPTICAL DISTANCE MEASUREMENT**

[54] **METHODE ET APPAREIL DE MESURE D'UNE DISTANCE OPTIQUE**

[72] HOLZHUTER, HANNO, DE

[73] MICROVISION, INC., US

[86] (3074628)

[87] (3074628)

[22] 2020-03-04

[30] EP (19165546.3) 2019-03-27

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[54] **TABLE TOP**
[54] **PLATEAU DE TABLE**
[72] OCHSENFELD, GERHARD, DE
[72] OCHSENFELD, MICHAEL, DE
[73] EINRICHTWERK GMBH, DE
[85] 2020-03-03
[86] 2017-12-18 (PCT/EP2017/083330)
[87] (WO2019/048073)
[30] DE (20 2017 105 463.2) 2017-09-08

[11] **3,075,509**
[13] C

[51] **Int.Cl. H01J 29/04 (2006.01) H01J 31/48 (2006.01) H01J 31/49 (2006.01)**
[25] EN
[54] **THERMALLY ASSISTED NEGATIVE ELECTRON AFFINITY PHOTOCATHODE**
[54] **PHOTOCATHODE A AFFINITE ELECTRONIQUE NEGATIVE ASSISTEE THERMIQUEMENT**
[72] COSTELLO, KENNETH A., US
[72] AEBI, VERLE, US
[72] JURKOVIC, MICHAEL, US
[72] ZENG, XI, US
[73] EOTECH, LLC, US
[85] 2020-03-10
[86] 2018-09-12 (PCT/US2018/050735)
[87] (WO2019/055554)
[30] US (15/702,647) 2017-09-12

[11] **3,075,824**
[13] C

[51] **Int.Cl. E04B 2/88 (2006.01)**
[25] EN
[54] **THERMALLY SEPARATED COMPOSITE PANEL ASSEMBLY**
[54] **ASSEMBLAGE DE PANNEAUX COMPOSITES A COUPURE THERMIQUE**
[72] STRICKLAND, MICHAEL R., CA
[73] UNITIWALL CORPORATION, CA
[86] (3075824)
[87] (3075824)
[22] 2020-03-16
[30] US (62/819,278) 2019-03-15

[11] **3,076,440**
[13] C

[51] **Int.Cl. F16H 1/24 (2006.01) F16H 1/12 (2006.01) F16H 35/02 (2006.01) F16H 55/10 (2006.01)**
[25] EN
[54] **GEAR SET IN WHICH INTERACTING GEARS HAVE A DIFFERENT CIRCULAR PITCH**
[54] **TRAIN D'ENGRENAGES DANS LEQUEL DES ENGRENAGES EN INTERACTION ONT UN PAS PRIMITIF DIFFERENT**
[72] BEAUDET, DONALD C., CA
[73] BEAUDET, DONALD C., CA
[86] (3076440)
[87] (3076440)
[22] 2020-03-20
[30] US (62/822,461) 2019-03-22

[11] **3,077,512**
[13] C

[51] **Int.Cl. H01Q 1/42 (2006.01)**
[25] EN
[54] **RADOME STRUCTURE, PROTECTED RADIATION-ACTIVE SYSTEM AND METHODS FOR USING SAME**
[54] **STRUCTURE DE RADOME, SYSTEME A RAYONNEMENT ACTIF PROTEGE ET PROCEDES D'UTILISATION ASSOCIES**
[72] STRESSING, DAVID WINFIELD, US
[73] SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION, US
[85] 2020-03-30
[86] 2018-09-28 (PCT/US2018/053576)
[87] (WO2019/068004)
[30] US (62/566,384) 2017-09-30

[11] **3,077,825**
[13] C

[51] **Int.Cl. E04F 15/20 (2006.01) E04B 1/84 (2006.01)**
[25] EN
[54] **HIGH COMPRESSIVE STRENGTH SOUND ATTENUATION**
[54] **ATTENUATEUR DE SON A HAUTE RESISTANCE A LA COMPRESSION**
[72] IGO, JOHN, US
[73] FORMULATED MATERIALS LLC, US
[86] (3077825)
[87] (3077825)
[22] 2020-04-01
[30] US (62/827,610) 2019-04-01

[11] **3,078,544**
[13] C

[51] **Int.Cl. H04R 1/10 (2006.01)**
[25] EN
[54] **A NOISE REDUCTION AIR TUBE MICROPHONE, NOISE-REDUCTION SAFE HEADSET AND NOISE-REDUCTION SAFE BLUETOOTH HEADSET**
[54] **MICROPHONE A CONDUIT D'AIR A REDUCTION DE BRUIT, ECOUTEUR A REDUCTION DE BRUIT SECURISE, ET ECOUTEUR BLUETOOTH A REDUCTION DE BRUIT SECURISE**
[72] ZHU, AIDAO, CN
[73] ZHU, AIDAO, CN
[85] 2020-04-06
[86] 2018-10-08 (PCT/CN2018/000348)
[87] (WO2019/068238)

[11] **3,079,538**
[13] C

[51] **Int.Cl. A01N 27/00 (2006.01) A01N 25/00 (2006.01) A01N 31/00 (2006.01) A01N 37/00 (2006.01) A01N 65/00 (2009.01)**
[25] EN
[54] **ANNATTO EXTRACTS FOR INSECT REPELLENCY, LARVICIDAL ACTIVITY AND METHODS OF USE**
[54] **EXTRAITS DE ROCOU DESTINES A REPOUSSER LES INSECTES, A ACTIVITE LARVICIDE ET LEURS PROCEDES D'UTILISATION**
[72] TAN, BARRIE, US
[72] ZHANG, JIA, US
[73] AMERICAN RIVER NUTRITION, LLC, US
[85] 2020-04-17
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[51] **Int.Cl. E21B 43/26 (2006.01) E21B 41/00 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **INTEGRATED FRACKING SYSTEM**
[54] **SYSTEME DE FRACTIONNEMENT INTEGRE**
[72] SHARP, BRIAN, US
[72] JOOST, CHAD, US
[72] HARVELL, CHRIS, US
[72] SMITH, PAUL, US
[73] STEWART & STEVENSON LLC, US
[86] (3081706)
[87] (3081706)
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[11] **3,087,465**
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[51] **Int.Cl. H02J 7/00 (2006.01)**
[25] EN
[54] **ON-BOARD STARTING POWER SUPPLY**
[54] **SOURCE D'ENERGIE DE DEMARRAGE MONTEE SUR UN VEHICULE**
[72] LEI, YUN, CN
[72] ZHANG, ZHIFENG, CN
[73] SHENZHEN CARU TECHNOLOGY CO., LIMITED., CN
[85] 2020-07-02
[86] 2018-08-30 (PCT/CN2018/103295)
[87] (WO2020/042091)

[11] **3,088,457**
[13] C

[51] **Int.Cl. H04W 72/00 (2023.01) H04W 72/232 (2023.01)**
[25] EN
[54] **SCHEDULING REQUEST CANCELLATION METHOD, BUFFER STATUS REPORT CANCELLATION METHOD AND DEVICE**
[54] **PROCEDE D'ANNULATION DE DEMANDE D'ORDONNANCEMENT, PROCEDE D'ANNULATION DE RAPPORT D'ETAT DE MEMOIRE TAMPON ET DISPOSITIF**
[72] KUANG, YIRU, CN
[72] TENNY, NATHAN EDWARD, CN
[72] WANG, JIAN, CN
[72] YAO, CHUTING, CN
[72] CAO, ZHENZHEN, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-07-14
[86] 2019-02-12 (PCT/CN2019/074864)
[87] (WO2019/158053)
[30] CN (201810150653.6) 2018-02-13

[11] **3,088,486**
[13] C

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[25] EN
[54] **BWP HANDLING IN IDLE MODE AND INACTIVE MODE**
[54] **MANIPULATION BWP EN MODE REPOS ET EN MODE INACTIF**
[72] KOSKINEN, JUSSI-PEKKA, FI
[72] KOSKELA, JARKKO, FI
[72] HENTTONEN, TERO, FI
[73] NOKIA TECHNOLOGIES OY, FI
[85] 2020-07-14
[86] 2017-11-14 (PCT/FI2017/050782)
[87] (WO2019/097104)

[11] **3,089,744**
[13] C

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[25] EN
[54] **IMAGE BASED ULTRASOUND PROBE CALIBRATION**
[54] **ETALONNAGE D'UNE SONDE A ULTRASON BASE SUR UNE IMAGE**
[72] GOTTE, HUBERT, DE
[72] ILLANES MANRIQUEZ, ALFREDO GUILLERMO, DE
[72] FRIEBE, MICHAEL, DE
[72] BALAKRISHNAN, SATISH, DE
[72] POUDEL, PRABAL, DE
[73] BRAINLAB AG, DE
[85] 2020-07-28
[86] 2018-02-23 (PCT/EP2018/054524)
[87] (WO2019/161914)

[11] **3,090,310**
[13] C

[51] **Int.Cl. G05B 19/4099 (2006.01)**
[25] EN
[54] **A PRINTER FOR PRINTING A 3D OBJECT**
[54] **IMPRIMANTE PERMETTANT D'IMPRIMER UN OBJET 3D**
[72] GAY, JEREMIE PIERRE, DK
[72] VAJDA, ZOLTAN TAMAS, DK
[73] CREATE IT REAL A/S, DK
[85] 2020-08-03
[86] 2019-02-05 (PCT/EP2019/052727)
[87] (WO2019/149953)
[30] DK (PA 2018 70069) 2018-02-05

[11] **3,091,661**
[13] C

[51] **Int.Cl. B05B 1/08 (2006.01) B05B 12/06 (2006.01) F15B 1/12 (2006.01) F15C 1/22 (2006.01)**
[25] EN
[54] **SPLIT BODY FLUIDIC SPRAY NOZZLE**
[54] **BUSE DE PULVERISATION FLUIDIQUE A CORPS FENDU**
[72] COPLIN, THOMAS L., US
[73] SPRAYING SYSTEMS CO., US
[85] 2020-08-18
[86] 2019-02-20 (PCT/US2019/018673)
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[30] US (62/632,673) 2018-02-20

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[13] C

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[25] EN

[54] **ELECTROCHLORINATION SYSTEM CONFIGURATIONS FOR THE GENERATION OF HIGH PRODUCT STRENGTH SOLUTIONS**

[54] **CONFIGURATIONS DE SYSTEME D'ELECTROCHLORATION POUR LA GENERATION DE SOLUTIONS A HAUTE RESISTANCE DU PRODUIT**

[72] GRIFFIS, JOSHUA, US
[72] DUKES, SIMON P., US
[72] BEDDOES, PAUL, GB
[72] ROGERS, PETER G., GB
[72] AWAN, MUHAMMAD, GB
[73] EVOQUA WATER TECHNOLOGIES LLC, US
[73] EVOQUA WATER TECHNOLOGIES LIMITED, GB
[85] 2020-08-20
[86] 2019-02-22 (PCT/US2019/019072)
[87] (WO2019/165161)
[30] US (62/633,790) 2018-02-22

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[13] C

[51] **Int.Cl. G06N 10/80 (2022.01) G16C 10/00 (2019.01) G16C 20/30 (2019.01)**

[25] EN

[54] **TECHNIQUES FOR OBTAINING ACCURATE DIAGONAL ELECTRONIC STRUCTURE HAMILTONIANS**

[54] **TECHNIQUES D'OBTENTION D'HAMILTONIENS A STRUCTURE ELECTRONIQUE DIAGONALE PRECISE**

[72] BABBUSH, RYAN, US
[72] MCCLEAN, JARROD RYAN, US
[73] GOOGLE LLC, US
[85] 2020-09-04
[86] 2018-08-10 (PCT/US2018/046249)
[87] (WO2019/203874)
[30] US (62/660,505) 2018-04-20

[11] **3,093,911**
[13] C

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[25] EN

[54] **MESSAGE MANAGEMENT**

[54] **GESTION DE MESSAGES**

[72] GABRIEL, MICHAEL RICHARD, US
[72] SCOTT, GLENN CARTER, US
[73] INTUIT INC., US
[85] 2020-09-14
[86] 2019-03-05 (PCT/US2019/020680)
[87] (WO2019/190708)
[30] US (15/942,347) 2018-03-30

[11] **3,093,914**
[13] C

[51] **Int.Cl. H04W 88/10 (2009.01) H04W 84/22 (2009.01) H04B 1/40 (2015.01)**

[25] EN

[54] **ACCESS POINT DEVICE**

[54] **DISPOSITIF DE POINT D'ACCES**

[72] LEE, YAU-SHING, US
[72] ESPARZA, ROLANDO WILLCOX, US
[72] LIU, GEORGE, US
[72] WONG, WING TUNG, US
[72] HECKMANN, FREDERIC, US
[72] TANG, VIVIAN W., US
[73] GOOGLE LLC, US
[85] 2020-09-22
[86] 2019-09-26 (PCT/US2019/053162)
[87] (WO2021/061127)

[11] **3,094,306**
[13] C

[51] **Int.Cl. D04H 1/58 (2012.01) D04H 1/00 (2006.01) D04H 1/40 (2012.01) D04H 1/46 (2012.01)**

[25] EN

[54] **ACTIVATED POROUS FIBERS AND PRODUCTS INCLUDING SAME**

[54] **FIBRES POREUSES ACTIVEES ET PRODUITS LES COMPRENANT**

[72] CROSS, JONATHAN, GB
[72] KELSALL, ADAM, GB
[72] ZOITOS, BRUCE, US
[72] CANNAN, CHAD, US
[73] UNIFRAX I LLC, US
[85] 2020-09-16
[86] 2019-04-03 (PCT/US2019/025562)
[87] (WO2019/195406)
[30] US (62/652,551) 2018-04-04

[11] **3,094,406**
[13] C

[51] **Int.Cl. A61K 39/385 (2006.01) A61K 41/00 (2020.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07C 323/41 (2006.01) C07D 207/40 (2006.01) C07D 211/88 (2006.01) C07H 15/04 (2006.01) C07H 15/10 (2006.01)**

[25] EN

[54] **PRECISION GLYCOCONJUGATES AS THERAPEUTIC TOOLS**

[54] **GLYCOCONJUGUES DE PRECISION EN TANT QU'OUTILS THERAPEUTIQUES**

[72] SHIAO, TZE CHIEH, CA
[72] ROY, RENE, CA
[73] KORANEX CAPITAL, CA
[85] 2020-09-18
[86] 2019-03-22 (PCT/CA2019/050353)
[87] (WO2019/178699)
[30] US (62/647,151) 2018-03-23

[11] **3,095,648**
[13] C

[51] **Int.Cl. H04W 52/02 (2009.01)**

[25] EN

[54] **COMMUNICATION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE**

[54] **PROCEDE DE COMMUNICATION, DISPOSITIF RESEAU ET DISPOSITIF TERMINAL**

[72] LIU, JIANHUA, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-09-30
[86] 2018-04-04 (PCT/CN2018/082006)
[87] (WO2019/191968)

[11] **3,096,071**
[13] C

[51] **Int.Cl. B66C 1/66 (2006.01) B65G 1/04 (2006.01) B66F 9/07 (2006.01)**

[25] EN

[54] **TELESCOPIC PICK-UP FOR MOVING CONTAINERS IN HIGH-BAY WAREHOUSES**

[54] **RAMASSAGE TELESCOPIQUE POUR LE DEPLACEMENT DE CONTENEURS DANS LES ENTREPOTS A PLAFOND HAUT**

[72] HOFMANN, KARL ROBERT, DE
[73] AMOVA GMBH, DE
[85] 2020-10-01
[86] 2019-04-16 (PCT/EP2019/059762)
[87] (WO2019/201896)
[30] DE (10 2018 205 933.0) 2018-04-18

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[11] **3,096,100**
[13] C

[51] **Int.Cl. F16L 55/24 (2006.01) F16K 11/10 (2006.01)**
[25] EN
[54] **BALL DRAIN WYE STRAINER VALVE ASSEMBLY**
[54] **ASSEMBLAGE DE CLAPET DE VIDANGE A BILLE A CREPINE EN Y**
[72] TERRY, ANDREW J., US
[72] COATES, ANDREW J., US
[72] MASON, CHRISTOPHER W., US
[72] WILLIAMSON, CARLA M., US
[73] NIBCO INC., US
[86] (3096100)
[87] (3096100)
[22] 2020-10-14
[30] US (16/997.250) 2020-08-19

[11] **3,096,795**
[13] C

[51] **Int.Cl. A61M 39/28 (2006.01)**
[25] EN
[54] **PINCH CLAMP DEVICE**
[54] **DISPOSITIF DE PINCE DE SERRAGE**
[72] BURKHOLZ, JONATHAN KARL, US
[72] PETERSON, BART D., US
[72] WANG, BIN, US
[72] STOUT, MARTY L., US
[72] HU, OLIVIA, CN
[72] HARDING, WESTON F., US
[72] SONDEREGGER, RALPH L., US
[72] CHAI, KELVIN, CN
[72] WANG, LIONEL, CN
[73] BECTON, DICKINSON AND COMPANY, US
[86] (3096795)
[87] (3096795)
[22] 2016-10-06
[62] 3,002,659
[30] US (62/247,615) 2015-10-28
[30] US (62/296,372) 2016-02-17
[30] US (15/286,248) 2016-10-05

[11] **3,097,838**
[13] C

[51] **Int.Cl. E06B 9/24 (2006.01) E06B 3/67 (2006.01) E06B 9/264 (2006.01) H01L 31/0392 (2006.01)**
[25] EN
[54] **ELECTRIC POTENTIALLY-DRIVEN SHADE WITH CIGS SOLAR CELL AND METHOD OF MAKING THE SAME**
[54] **STORE A ENTRAINEMENT POTENTIELLEMENT ELECTRIQUE AVEC CELLULE SOLAIRE CIGS ET SON PROCEDE DE FABRICATION**
[72] BLUSH, JASON, US
[72] PETRMICHL, RUDOLPH, US
[72] FREY, TIMOTHY, US
[73] GUARDIAN GLASS, LLC, US
[85] 2020-10-20
[86] 2019-07-05 (PCT/IB2019/055758)
[87] (WO2020/008432)
[30] US (16/028,705) 2018-07-06

[11] **3,097,839**
[13] C

[51] **Int.Cl. E06B 9/24 (2006.01)**
[25] EN
[54] **ELECTRIC POTENTIALLY-DRIVEN SHADE INCLUDING SHUTTER SUPPORTING SURFACE-MODIFIED CONDUCTIVE COATING, AND/OR METHOD OF MAKING THE SAME**
[54] **STORE ENTRAINE PAR POTENTIEL ELECTRIQUE COMPRENANT UN REVETEMENT CONDUCTEUR DE MODIFICATION DE SURFACE DE SUPPORT DE VOLET ET/OU METHODE DE FABRICATION**
[72] BLUSH, JASON, US
[72] FREY, TIMOTHY, US
[73] GUARDIAN GLASS, LLC, US
[85] 2020-10-20
[86] 2019-07-05 (PCT/IB2019/055762)
[87] (WO2020/008435)

[11] **3,098,256**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61K 31/167 (2006.01) A61K 31/4422 (2006.01) A61K 31/554 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01) A61K 47/38 (2006.01)**
[25] EN
[54] **TOPICAL PHARMACEUTICAL COMPOSITION FOR TREATMENT OF ANAL FISSURES AND HEMORRHOIDS**
[54] **COMPOSITION PHARMACEUTIQUE TOPIQUE POUR LE TRAITEMENT DE FISSURES ANALES ET D'HEMORROIDES**
[72] DE SOUZA TEIXEIRA, LEONARDO, BR
[72] DE FARIA, JEANE ROBERTA SANTANA, BR
[72] DE CASTRO MELO NOGUEIRA, GILBIA, BR
[72] MOREIRA MUNDIM, IRAM, BR
[72] MOREIRA REZECK, LAURA, BR
[72] PIMENTEL ITAPEMA ALVES, CARINA, BR
[72] BRUNO BELLORIO, KARINI, BR
[72] RODRIGUES FERNANDES, SARAH, BR
[72] PIMENTEL ITAPEMA ALVES, VIVIANE, BR
[72] WOOLEY DE MENDONCA FILHO, ROBERT FREDERIC, BR
[73] FERRING B.V., NL
[85] 2020-10-23
[86] 2019-04-25 (PCT/EP2019/060643)
[87] (WO2019/207059)
[30] BR (1020180083244) 2018-04-25

[11] **3,099,102**
[13] C

[51] **Int.Cl. C12N 15/82 (2006.01)**
[25] EN
[54] **ENGINEERING WHEAT WITH INCREASED DIETARY FIBER**
[54] **BLE MODIFIE AYANT UNE PLUS GRANDE QUANTITE DE FIBRE ALIMENTAIRE**
[72] BALTES, NICHOLAS, US
[72] GIL HUMANES, JAVIER, US
[73] CELLECTIS, FR
[85] 2020-11-02
[86] 2019-05-02 (PCT/IB2019/053610)
[87] (WO2019/211796)
[30] US (62/665,643) 2018-05-02

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[11] **3,099,478**
[13] C

- [51] **Int.Cl. B01D 27/08 (2006.01)**
[25] EN
[54] **PUSH FILTER WITH FLOATING KEY LOCK**
[54] **FILTRE D'EAU AVEC VERROU DE SECURITE FLOTTANT**
[72] MCCOLLOUGH, THOMAS W., US
[72] ANNISS, WILLIAM THOMAS, III, US
[72] GRANT, WILLARD, US
[72] BARRIOS, ROANY, US
[72] SMALL, WILLIAM L., US
[72] MACHADO, MARCELLO CORREA, US
[72] ROUSEY, CHRISTOPHER STEPHAN, US
[72] SUBRAMANIAN, RAMESH, US
[72] BRANDT, KEN, US
[72] CANDEO, MARCELO C., US
[72] ASTLE, ROBERT, US
[72] LAURI, GEORGE NICHOLAS, III, US
[73] ELECTROLUX HOME PRODUCTS, INC., US
[86] (3099478)
[87] (3099478)
[22] 2020-11-17
[30] US (16/687,251) 2019-11-18

[11] **3,100,354**
[13] C

- [51] **Int.Cl. F17C 13/00 (2006.01) F17C 13/04 (2006.01) F17C 13/08 (2006.01)**
[25] EN
[54] **HANDLE ASSEMBLY FOR A PORTABLE PRESSURIZED GAS CYLINDER**
[54] **ENSEMBLE POIGNEE POUR BOUTEILLE DE GAZ COMPRIME PORTATIVE**
[72] AGUIAR, CARLOS, PT
[72] TENREIRO, ANA, PT
[73] AMTROL LICENSING INC., US
[85] 2020-11-13
[86] 2019-05-15 (PCT/US2019/032356)
[87] (WO2019/222310)
[30] US (15/981,367) 2018-05-16

[11] **3,101,314**
[13] C

- [51] **Int.Cl. H01Q 1/08 (2006.01) F24S 23/74 (2018.01)**
[25] EN
[54] **DEPLOYABLE CYLINDRICAL PARABOLIC ANTENNA**
[54] **ANTENNE PARABOLIQUE CYLINDRIQUE DEPLOYABLE**
[72] RUHL, LYN ERIC, US
[73] M.M.A. DESIGN, LLC, US
[85] 2020-11-18
[86] 2019-03-27 (PCT/US2019/024346)
[87] (WO2019/231538)
[30] US (62/677,959) 2018-05-30

[11] **3,101,665**
[13] C

- [51] **Int.Cl. C13B 20/16 (2011.01)**
[25] EN
[54] **FILTER MEDIA FOR THE REMOVAL OF PARTICLES, IONS, AND BIOLOGICAL MATERIALS, AND DECOLORIZATION IN A SUGAR PURIFICATION PROCESS, AND USE THEREOF**
[54] **MILIEU FILTRANT POUR L'ELIMINATION DE PARTICULES, D'IONS ET DE MATERIAUX BIOLOGIQUES, ET DECOLORATION DANS UN PROCEDE DE PURIFICATION DE SUCRE, ET UTILISATION ASSOCIEE**
[72] KNOLL, JAMES, US
[72] HENDERSON, KATIE, US
[72] BELCHER, BRUCE, US
[72] MERTZ, JOSHUA, US
[73] GRAVER TECHNOLOGIES LLC, US
[85] 2020-11-25
[86] 2019-05-23 (PCT/US2019/033745)
[87] (WO2019/236315)
[30] US (62/681,737) 2018-06-07

[11] **3,104,857**
[13] C

- [51] **Int.Cl. E21C 50/00 (2006.01) E21F 13/04 (2006.01) F04B 23/04 (2006.01) F04F 1/08 (2006.01) F04F 1/14 (2006.01)**
[25] EN
[54] **PUMPING SYSTEM**
[54] **SYSTEME DE POMPAGE**
[72] VAN RIJSWICK, RUDOLFUS, NL
[73] WEIR MINERALS NETHERLANDS B.V., NL
[85] 2020-12-22
[86] 2019-07-12 (PCT/IB2019/055957)
[87] (WO2020/016716)
[30] GB (1811632.7) 2018-07-16

[11] **3,106,244**
[13] C

- [51] **Int.Cl. C11D 3/30 (2006.01) D06L 4/657 (2017.01) C11D 1/22 (2006.01) C11D 1/37 (2006.01) C11D 1/83 (2006.01) C11D 3/00 (2006.01) C11D 3/37 (2006.01) C11D 11/00 (2006.01) D06L 1/04 (2006.01) D06M 13/00 (2006.01) D06M 13/332 (2006.01)**
[25] EN
[54] **TREATMENT COMPOSITIONS COMPRISING A SURFACTANT SYSTEM AND AN OLIGOAMINE**
[54] **COMPOSITIONS DE TRAITEMENT COMPRENANT UN SYSTEME TENSIOACTIF ET UNE OLIGOAMINE**
[72] RANDALL, SHERRI LYNN, US
[72] MELI, FABRIZIO, US
[72] MIRACLE, GREGORY SCOT, US
[72] STENGER, PATRICK CHRISTOPHER, US
[72] BIANCHETTI, GIULIA OTTAVIA, BE
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2021-01-11
[86] 2019-08-14 (PCT/US2019/046481)
[87] (WO2020/041063)
[30] EP (18190607.4) 2018-08-24

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[11] **3,106,744**
[13] C

[51] **Int.Cl. A01D 57/20 (2006.01) A01D 47/00 (2006.01)**
[25] EN
[54] **WEAR-INHIBITING CLIP FOR DRAPER CLEAT OR SLAT OF A CROP HARVESTING HEADER**
[54] **PINCE EMPECHANT L'USURE DESTINEE A UNE CLAVETTE DE CONVOYEUR A COURROIE OU UNE LATTE D'UN TABLIER DE RECOLTEUSE**
[72] ROGALSKY, DOUG, CA
[72] GEORGINSON, RYAN, CA
[72] MARTENS, KRISTOPHER, CA
[73] MACDON INDUSTRIES LTD., CA
[86] (3106744)
[87] (3106744)
[22] 2018-04-30
[62] 3,003,359
[30] US (15631198) 2017-06-23

[11] **3,107,337**
[13] C

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 9/54 (2006.01) G06F 9/52 (2006.01)**
[25] EN
[54] **ACCELERATING DATAFLOW SIGNAL PROCESSING APPLICATIONS ACROSS HETEROGENEOUS CPU/GPU SYSTEMS**
[54] **ACCELERATION D'APPLICATIONS DE TRAITEMENT DE SIGNAL DE FLUX DE DONNEES A TRAVERS DES SYSTEMES CPU/GPU HETEROGENES**
[72] CHAMPIGNY, MICHAEL, US
[73] RAYTHEON COMPANY, US
[85] 2021-01-21
[86] 2019-10-24 (PCT/US2019/057796)
[87] (WO2020/117388)
[30] US (62/776,119) 2018-12-06
[30] US (16/372,618) 2019-04-02

[11] **3,107,810**
[13] C

[51] **Int.Cl. H01L 23/535 (2006.01) H01L 21/027 (2006.01) H01L 23/528 (2006.01)**
[25] EN
[54] **HETEROGENOUS INTEGRATION FOR RF, MICROWAVE AND MM WAVE SYSTEMS IN PHOTOACTIVE GLASS SUBSTRATES**
[54] **INTEGRATION HETEROGENE POUR SYSTEMES RF, HYPERFREQUENCES ET A ONDES MILLIMETRIQUES DANS DES SUBSTRATS EN VERRE PHOTOACTIF**
[72] FLEMMING, JEB H., US
[72] MCWETHY, KYLE, US
[73] 3D GLASS SOLUTIONS, INC., US
[85] 2021-01-26
[86] 2019-12-26 (PCT/US2019/068586)
[87] (WO2020/139951)
[30] US (62/786,155) 2018-12-28

[11] **3,108,053**
[13] C

[51] **Int.Cl. A61K 9/51 (2006.01) A61K 35/76 (2015.01) A61K 47/30 (2006.01) A61K 47/34 (2017.01)**
[25] EN
[54] **POLYMER NANOPARTICLE COMPOSITION FOR DELIVERING VIRUS, AND PREPARATION METHOD THEREFOR**
[54] **COMPOSITION DE NANOPARTICULES POLYMERES POUR L'ADMINISTRATION DE VIRUS, ET SON PROCEDE DE PREPARATION**
[72] CHOI, JOUNG WOO, KR
[72] KIM, SANG HOON, KR
[72] NAM, HYE YEONG, KR
[72] CHO, HE LEN, KR
[72] YUN, MIN HYUK, KR
[72] KIM, GOO YOUNG, KR
[72] LEE, SO JIN, KR
[73] SAMYANG HOLDINGS CORPORATION, KR
[85] 2021-01-28
[86] 2019-08-07 (PCT/KR2019/009893)
[87] (WO2020/032581)
[30] KR (10-2018-0092089) 2018-08-07

[11] **3,108,709**
[13] C

[51] **Int.Cl. C25C 7/08 (2006.01) C25D 1/04 (2006.01) C25D 1/20 (2006.01)**
[25] EN
[54] **STRIPPING OF METAL FROM CATHODES**
[54] **DECAPAGE DU METAL DE CATHODES**
[72] ERIKSSON, PER OLA, AU
[72] KIMLIN, NOEL DOUGLAS, AU
[72] KIMURA, NAOFUMI, JP
[73] GLENCCORE TECHNOLOGY PTY LIMITED, AU
[73] MESCO INC., JP
[85] 2021-02-04
[86] 2019-08-20 (PCT/AU2019/050876)
[87] (WO2020/037362)
[30] AU (2018903066) 2018-08-21
[30] AU (2018903463) 2018-09-14

[11] **3,109,300**
[13] C

[51] **Int.Cl. A61L 27/16 (2006.01) A61L 27/18 (2006.01) A61L 27/20 (2006.01) A61L 27/22 (2006.01) A61L 27/36 (2006.01) A61L 27/38 (2006.01) A61L 27/50 (2006.01)**
[25] EN
[54] **GENERATING ARTERIAL ENDOTHELIAL CELL-SEEDED VASCULAR GRAFTS**
[54] **PRODUCTION DE GREFFONS VASCULAIRES ENSEMENCES PAR DES CELLULES ENDOTHELIALES ARTERIELLES**
[72] THOMSON, JAMES A., US
[72] ZHANG, JUE, US
[72] MAUFORT, JOHN, US
[73] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2021-02-10
[86] 2019-08-30 (PCT/US2019/049003)
[87] (WO2020/047380)
[30] US (62/725,469) 2018-08-31

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[11] **3,109,360**
[13] C

[51] **Int.Cl. A61K 31/375 (2006.01) A23L 33/10 (2016.01) A61K 47/52 (2017.01) A61K 31/19 (2006.01) A61K 31/191 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **A PHARMACEUTICAL COMPOSITION FOR TREATING CANCER COMPRISING AN IONIC COMPOUND HAVING METAL ION BINDING THERETO**

[54] **COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT DU CANCER COMPRENANT UN COMPOSE IONIQUE DE TYPE A ION METALLIQUE LIE**

[72] PAI, CHAUL MIN, KR
[73] METAFINES.CO.LTD., KR
[85] 2021-02-10
[86] 2019-08-19 (PCT/KR2019/010485)
[87] (WO2020/040502)
[30] KR (10-2018-0098145) 2018-08-22

[11] **3,110,262**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 35/17 (2015.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **ANTI-BCMA SINGLE DOMAIN ANTIBODIES AND APPLICATION THEREOF**

[54] **ANTICORPS ANTI-BCMA A DOMAINE UNIQUE ET APPLICATION CORRESPONDANTE**

[72] ZHANG, JISHUAI, CN
[72] LI, HONGJIAN, CN
[72] BAO, CHAOLEMENG, CN
[72] CAI, QINGHUA, CN
[72] LI, YINGYING, CN
[72] SONG, ZONGPEI, CN
[72] DING, YIJIN, CN
[72] CAI, ZHIBO, CN
[73] SHENZHEN PREGENE BIOPHARMA CO. LTD., CN
[85] 2021-02-22
[86] 2019-07-10 (PCT/CN2019/095507)
[87] (WO2020/038147)
[30] CN (201810972054.2) 2018-08-24

[11] **3,110,739**
[13] C

[51] **Int.Cl. H05B 45/14 (2020.01) H05B 45/325 (2020.01) H05B 47/16 (2020.01) H05B 47/19 (2020.01)**

[25] EN

[54] **DRIVE CIRCUIT FOR A LIGHT-EMITTING DIODE LIGHT SOURCE**

[54] **CIRCUIT D'EXCITATION POUR SOURCE DE LUMIERE A DIODES ELECTROLUMINESCENTES**

[72] DEJONGE, STUART W., US
[72] NEWMAN, ROBERT C., JR., US
[73] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2021-02-24
[86] 2019-08-30 (PCT/US2019/049091)
[87] (WO2020/047427)
[30] US (62/725,467) 2018-08-31

[11] **3,112,763**
[13] C

[51] **Int.Cl. C12N 15/13 (2006.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01)**

[25] EN

[54] **CD200R AGONIST ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS AGONISTES DE CD200R ET UTILISATIONS DE CES DERNIERS**

[72] DEMAREST, STEPHEN JOHN, US
[72] KOESTER, ANJA, US
[72] MEHTA, PAYAL, US
[72] POTTER, SCOTT CHARLES, US
[72] RUIZ, DIANA ISABEL, US
[72] WITCHER, DERRICK RYAN, US
[72] WU, XIUFENG, US
[73] ELI LILLY AND COMPANY, US
[85] 2021-03-12
[86] 2019-09-11 (PCT/US2019/050511)
[87] (WO2020/055943)
[30] US (62/731,204) 2018-09-14

[11] **3,113,381**
[13] C

[51] **Int.Cl. C03C 3/078 (2006.01) C03C 23/00 (2006.01) G01N 21/25 (2006.01) G01N 21/88 (2006.01) G01N 21/896 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DETECTING INCLUSIONS IN FLOAT GLASS BASED ON SPECTRAL REFLECTANCE ANALYSIS**

[54] **PROCEDE ET SYSTEME DE DETECTION D'INCLUSIONS DANS UN VERRE FLOTTE SUR LA BASE D'UNE ANALYSE DE LA REFLECTANCE SPECTRALE**

[72] AGBUGA, OKAN, US
[73] GUARDIAN GLASS, LLC, US
[85] 2021-03-18
[86] 2019-10-02 (PCT/IB2019/058398)
[87] (WO2020/070673)

[11] **3,113,922**
[13] C

[51] **Int.Cl. G06Q 50/10 (2012.01)**

[25] EN

[54] **EVENT MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION D'EVENEMENTS**

[72] ASANUMA, KATSUhide, JP
[73] ASANUMA HOLDINGS CO., LTD., JP
[85] 2021-03-23
[86] 2018-12-27 (PCT/JP2018/048118)
[87] (WO2020/079861)
[30] JP (2018-194387) 2018-10-15

[11] **3,114,387**
[13] C

[51] **Int.Cl. H02J 7/00 (2006.01) H02J 50/00 (2016.01) H04W 4/38 (2018.01) G01R 31/371 (2019.01) G05F 1/66 (2006.01) H04L 12/16 (2006.01)**

[25] EN

[54] **COMMUNICATING BATTERY CHARGER**

[54] **CHARGEUR DE BATTERIE A CAPACITE DE COMMUNICATION**

[72] KUTER-ARNEBECK, OTTOLEO, US
[72] KRIST, RANDY F., US
[73] SNAP-ON INCORPORATED, US
[86] (3114387)
[87] (3114387)
[22] 2021-04-08
[30] US (16/852,144) 2020-04-17

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[11] **3,114,728**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **ANTIBODY FORMULATION FORMULATION D'ANTICORPS**
[72] FREICHEL, CHRISTIAN, CH
[72] MUELLER, CLAUDIA, CH
[72] MUELLER, ROBERT, CH
[72] SZCZESNY, PIOTR JAN, CH
[72] WORGULL, MARTIN, CH
[72] WURTH, CHRISTINE, CH
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-03-29
[86] 2019-10-25 (PCT/EP2019/079137)
[87] (WO2020/089051)
[30] EP (18203104.7) 2018-10-29

[11] **3,115,010**
[13] C

[51] **Int.Cl. B01J 20/18 (2006.01) B01J 20/34 (2006.01) C02F 1/28 (2006.01)**
[25] EN
[54] **METHOD FOR REMOVING POLYFLUORINATED ORGANIC COMPOUNDS FROM WATER BY MEANS OF AN ADSORBENT AND REGENERATION OF THE LATTER**
[54] **PROCEDE POUR ELIMINER DES COMPOSES ORGANIQUES POLYFLUORES PRESENTS DANS DE L'EAU AU MOYEN D'UN ADSORBANT ET POUR REGENERER CE DERNIER**
[72] GEORGI, ANETT, DE
[72] KOPINKE, FRANK-DIETER, DE
[72] MACKENZIE, KATRIN, DE
[72] NGUYEN, THE VIET, DE
[72] WOSZIDLO, SILKE, DE
[72] KOHLER, ROBERT, DE
[73] HELMHOLTZ-ZENTRUM FUR UMWELTFORSCHUNG GMBH - UFZ, DE
[85] 2021-03-31
[86] 2019-10-29 (PCT/EP2019/079452)
[87] (WO2020/089192)
[30] EP (18203492.6) 2018-10-30

[11] **3,115,268**
[13] C

[51] **Int.Cl. G06F 16/903 (2019.01) G06F 16/9038 (2019.01) G06F 40/205 (2020.01) G06F 40/279 (2020.01)**
[25] EN
[54] **DETERMINING LEVELS OF DETAIL FOR DATA VISUALIZATIONS USING NATURAL LANGUAGE CONSTRUCTS**
[54] **DETERMINATION DE NIVEAUX DE DETAIL POUR DES VISUALISATIONS DE DONNEES A L'AIDE DE CONSTRUCTIONS EN LANGAGE NATUREL**
[72] DJALALI, ALEX, US
[72] SETLUR, VIDYA RAGHAVAN, US
[73] TABLEAU SOFTWARE, LLC, US
[85] 2021-04-01
[86] 2019-10-08 (PCT/US2019/055169)
[87] (WO2020/076811)
[30] US (62/742,857) 2018-10-08
[30] US (16/166,125) 2018-10-21
[30] US (16/234,470) 2018-12-27

[11] **3,115,337**
[13] C

[51] **Int.Cl. H01M 50/244 (2021.01) H01M 50/50 (2021.01) B65D 85/88 (2006.01) B65D 85/90 (2006.01)**
[25] EN
[54] **SAFE TRANSPORT AND STORAGE OF ENERGY STORAGE DEVICES**
[54] **TRANSPORT ET STOCKAGE SECURISES DE DISPOSITIFS DE STOCKAGE D'ENERGIE**
[72] NIZIOL, CHESTER STANLEY, CA
[73] DESIGN SCIENCE TECHNOLOGY LLC, US
[86] (3115337)
[87] (3115337)
[22] 2019-09-23
[62] 3,081,105
[30] US (62/734,494) 2018-09-21

[11] **3,116,842**
[13] C

[51] **Int.Cl. B02C 17/18 (2006.01)**
[25] EN
[54] **A GRINDING MILL BROYEUR**
[72] GREEN, NICHOLAS, NO
[72] BERGER, BRIAN, US
[72] BORDI, DAMON, AU
[72] WINTHER, KJELL, NO
[72] HOLSHAGEN, BJOERN, NO
[73] METSO OUTOTEC FINLAND OY, FI
[85] 2021-04-16
[86] 2019-04-23 (PCT/FI2019/050326)
[87] (WO2020/079323)
[30] US (16/165,573) 2018-10-19

[11] **3,117,066**
[13] C

[51] **Int.Cl. E02F 3/40 (2006.01) B62D 49/00 (2006.01) E02F 3/627 (2006.01) E02F 3/96 (2006.01)**
[25] EN
[54] **A BUCKET FOR AN EARTH-WORKING OR MATERIALS-HANDLING MACHINE**
[54] **GODET POUR MACHINE DE TERRASSEMENT OU DE MANIPULATION DE MATERIAUX**
[72] COULSON, BRIAN, GB
[73] SSAB TECHNOLOGY AB, SE
[85] 2021-04-20
[86] 2019-12-06 (PCT/EP2019/084023)
[87] (WO2020/115295)
[30] EP (18211055.1) 2018-12-07

[11] **3,117,307**
[13] C

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/34 (2006.01)**
[25] EN
[54] **REUSABLE NEEDLE HANDLING APPARATUS**
[54] **APPAREIL DE MANIPULATION D'AIGUILLE REUTILISABLE**
[72] RADMAND, REZA, US
[72] COLE, STEPHEN J., US
[73] ACHAEMENID, LLC, US
[85] 2021-04-21
[86] 2018-10-10 (PCT/US2018/055114)
[87] (WO2019/089197)
[30] US (62/578,692) 2017-10-30

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[11] **3,117,808**
[13] C

[51] **Int.Cl. C02F 1/70 (2006.01) C01F 5/02 (2006.01) C01F 5/06 (2006.01) C02F 1/04 (2006.01) C02F 5/00 (2006.01) C10G 1/04 (2006.01)**

[25] EN

[54] **SILICA REDUCER
COMPOSITIONS AND METHODS FOR TREATMENT OF PRODUCED WATER FROM THERMAL IN SITU BITUMEN OR HEAVY HYDROCARBON RECOVERY OPERATIONS**

[54] **COMPOSITIONS DE REDUCTEUR DE SILICE ET METHODES DE TRAITEMENT D'EAU PRODUITE D'OPERATIONS THERMIQUES DE RECUPERATION DE BITUME OU D'HYDROCARBURES
LOURDS SUR PLACE**

[72] BEREZOWSKI, NEIL, CA
[72] JAFARI, MARYAM, CA
[72] SHI, GANG, CA
[72] SPACHTHOLZ, FRANZ XAVER, CA
[72] SPROUL, RICHARD, CA
[73] BAYMAG INC., CA
[86] (3117808)
[87] (3117808)
[22] 2021-05-11

[11] **3,118,227**
[13] C

[51] **Int.Cl. H04L 67/14 (2022.01) H04L 67/141 (2022.01) H04L 67/143 (2022.01)**

[25] EN

[54] **PROTOCOL DATA UNIT SESSION STATUS INDICATION METHOD, TERMINAL DEVICE, AND STORAGE MEDIUM**

[54] **PROCEDE D'INDICATION D'UN ETAT D'UNE SESSION D'UNE UNITE DE DONNEES DE PROTOCOLE, DISPOSITIF TERMINAL ET SUPPORT DE STOCKAGE**

[72] SHI, CONG, CN
[72] LIU, JIANHUA, CN
[72] YANG, NING, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-04-29
[86] 2018-10-31 (PCT/CN2018/113211)
[87] (WO2020/087421)

[11] **3,118,264**
[13] C

[51] **Int.Cl. E21B 19/00 (2006.01) E21B 19/16 (2006.01) E21B 33/04 (2006.01) E21B 43/10 (2006.01)**

[25] EN

[54] **ROTATING HANGER RUNNING TOOL**

[54] **OUTIL DE POSE DE DISPOSITIFS DE SUSPENSION ROTATIFS**

[72] COTTON, CRAIG, US
[73] PATRIOT RESEARCH CENTER, LLC, US
[86] (3118264)
[87] (3118264)
[22] 2021-05-14
[30] US (16878300) 2020-05-19

[11] **3,118,583**
[13] C

[51] **Int.Cl. A61K 33/00 (2006.01) A61K 31/047 (2006.01) A61K 31/198 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS CONTAINING INOSITOL-STABILIZED ARGININE SILICATE COMPLEXES AND INOSITOL FOR IMPROVING COGNITIVE FUNCTION IN VIDEO GAMERS**

[54] **COMPOSITIONS CONTENANT DES COMPLEXES DE SILICATE D'ARGININE STABILISES PAR INOSITOL ET INOSITOL POUR AMELIORER LA FONCTION COGNITIVE CHEZ DES JOUEURS DE JEU VIDEO**

[72] KOMOROWSKI, JAMES R., US
[73] NUTRITION 21, LLC, US
[85] 2021-05-03
[86] 2019-10-29 (PCT/US2019/058653)
[87] (WO2020/092431)
[30] US (62/755,093) 2018-11-02

[11] **3,118,678**
[13] C

[51] **Int.Cl. C22B 3/10 (2006.01) C01F 7/20 (2006.01) C01F 7/22 (2006.01) C22B 1/00 (2006.01) C22B 3/44 (2006.01) C22B 21/00 (2006.01) C25B 1/34 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING SMELTER-GRADE ALUMINA FROM LOW-GRADE HIGH-SILICON ALUMINUM-CONTAINING RAW MATERIALS**

[54] **PROCEDE DE PRODUCTION D'ALUMINE METALLURGIQUE DE MATIERES BRUTES QUI CONTIENNENT DE L'ALUMINIUM AVEC UNE TENEUR ELEVEE EN SILICIUM DE QUALITE INFERIEURE**

[72] SENYUTA, ALEKSANDR SERGEEVICH, RU
[72] PANOV, ANDREY VLADIMIROVICH, RU
[72] MIL'SHIN, OLEG NIKOLAEVICH, RU
[72] SLOBODYANYUK, EDUARD ANDREEVICH, RU
[72] SMIRNOV, ANDREY ANDREEVICH, RU
[73] OBRSHCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "OBEDINENNAYA KOMPANIYA RUSAL INZHENERNO-TEKHNOLOGICHESKIY TSENTR", RU
[86] (3118678)
[87] (3118678)
[22] 2017-09-20
[62] 3,032,938
[30] RU (2016138762) 2016-09-30

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[11] **3,118,745**
[13] C

[51] **Int.Cl. A61N 1/18 (2006.01) A61N 1/08 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR FEEDBACK-BASED NERVE MODULATION**
[54] **APPAREIL ET METHODES DE NEUROMODULATION BASEE SUR LA RETROACTION**
[72] MASHIACH, ADI, IL
[73] NYXOAH SA, BE
[86] (3118745)
[87] (3118745)
[22] 2012-09-28
[62] 2,850,311
[30] US (61/541,651) 2011-09-30
[30] US (61/657,424) 2012-06-08

[11] **3,118,932**
[13] C

[51] **Int.Cl. A61B 34/30 (2016.01)**
[25] EN
[54] **OPERATION ENABLING CONTROL SYSTEM AND ROBOT-ASSISTED SURGICAL DEVICE WITH THE SYSTEM**
[54] **SYSTEME DE COMMANDE PERMETTANT UNE OPERATION ET INSTRUMENT CHIRURGICAL ASSISTE PAR ROBOT UTILISANT LE SYSTEME**
[72] XU, KAI, CN
[72] TANG, AOLIN, CN
[73] BEIJING SURGERII ROBOTICS COMPANY LIMITED, CN
[85] 2021-05-06
[86] 2019-12-27 (PCT/CN2019/128986)
[87] (WO2020/135665)
[30] CN (201811610863.5) 2018-12-27

[11] **3,121,309**
[13] C

[51] **Int.Cl. C10L 1/08 (2006.01) C07C 41/56 (2006.01) C10G 3/00 (2006.01) C10G 45/58 (2006.01) C10L 1/185 (2006.01) C10L 10/00 (2006.01)**
[25] EN
[54] **DIESEL FUEL COMPOSITIONS WITH DECREASED PARTICULATE EMISSIONS**
[54] **COMPOSITIONS DE CARBURANT DIESEL A EMISSIONS DE PARTICULES REDUITES**
[72] KOUVA, MERJA, FI
[72] LEHTO, KALLE, FI
[72] KURONEN, MARKKU, FI
[72] TIITTA, MARJA, FI
[72] KIISKI, ULLA, FI
[73] NESTE OYJ, FI
[85] 2021-05-27
[86] 2019-11-25 (PCT/FI2019/050837)
[87] (WO2020/120834)
[30] FI (20186076) 2018-12-14

[11] **3,122,129**
[13] C

[51] **Int.Cl. F25D 29/00 (2006.01)**
[25] EN
[54] **REFRIGERATOR AND METHOD AND DEVICE FOR CONTROLLING REFRIGERATION THEREOF**
[54] **REFRIGERATEUR, ET PROCEDE ET DISPOSITIF DE COMMANDE DE REFRIGERATION POUR CELUI-CI**
[72] FANG, RUIPING, CN
[72] LI, YU, CN
[73] HEFEI MIDEA REFRIGERATOR CO., LTD., CN
[73] HEFEI HUALING CO., LTD., CN
[73] MIDEA GROUP CO., LTD., CN
[85] 2021-06-04
[86] 2019-01-09 (PCT/CN2019/070989)
[87] (WO2020/142930)

[11] **3,122,155**
[13] C

[51] **Int.Cl. B01L 3/02 (2006.01)**
[25] EN
[54] **SUCTION DEVICE FOR PIPETTES**
[54] **DISPOSITIF D'ASPIRATION POUR PIPETTES**
[72] HILGENBERG, INGO, DE
[73] HILGENBERG GMBH, DE
[85] 2021-06-04
[86] 2019-11-26 (PCT/EP2019/082505)
[87] (WO2020/126340)
[30] EP (18213236.5) 2018-12-17

[11] **3,123,018**
[13] C

[51] **Int.Cl. A61M 1/28 (2006.01)**
[25] EN
[54] **VOLUMETRIC STANDARD CASSETTES**
[54] **CASSETTES DE NORME VOLUMETRIQUE**
[72] KAROL, DANIEL SCOTT, US
[72] NORRIS, MATTHEW ALLEN, US
[72] SANTOS, TYLER CHRISTOPHER, US
[72] TIPTON, CHRISTOPHER ALLEN, US
[72] SULJEVIC, ADNAN, US
[73] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[85] 2021-06-10
[86] 2020-03-19 (PCT/US2020/023556)
[87] (WO2020/191156)
[30] US (62/820,551) 2019-03-19

[11] **3,124,228**
[13] C

[51] **Int.Cl. C07K 16/00 (2006.01) A01K 67/02 (2006.01) C12N 5/10 (2006.01) C12N 5/16 (2006.01) C12N 15/00 (2006.01) C12N 15/13 (2006.01) C12N 15/85 (2006.01) C12P 21/00 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **NON-HUMAN ANIMALS THAT MAKE SINGLE DOMAIN BINDING PROTEINS**
[54] **ANIMAUX NON HUMAINS QUI PRODUISENT DES PROTEINES DE LIAISON MONODOMAINE**
[72] GURER, CAGAN, US
[72] MACDONALD, LYNN, US
[72] MCWHIRTER, JOHN, US
[72] MURPHY, ANDREW J., US
[73] REGENERON PHARMACEUTICALS, INC., US
[86] (3124228)
[87] (3124228)
[22] 2015-03-20
[62] 2,942,697
[30] US (61/968,905) 2014-03-21
[30] US (61/968,986) 2014-03-21

**Brevets canadiens délivrés
14 mai 2024**

[11] **3,124,638**
[13] C

[51] **Int.Cl. G01L 1/24 (2006.01) G01H 9/00 (2006.01) G01V 1/22 (2006.01)**

[25] EN

[54] **PHASE SENSING WITH REDUNDANT SENSOR DIFFERENCE ERROR DETECTION AND SMART CORRECTION**

[54] **DETECTION DE PHASE A DETECTION D'ERREUR DE DIFFERENCE DE CAPTEUR REDONDANTE ET CORRECTION INTELLIGENTE**

[72] DAILING JR., JOHN HERBERT, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-06-22

[86] 2019-01-25 (PCT/US2019/015069)

[87] (WO2020/153967)

[11] **3,124,967**
[13] C

[51] **Int.Cl. C09J 133/04 (2006.01) C08F 220/18 (2006.01) C09J 11/06 (2006.01)**

[25] EN

[54] **ADHESIVE COMPOSITION AND METHODS OF FORMING THE SAME**

[54] **COMPOSITION ADHESIVE ET SES PROCEDES DE FORMATION**

[72] CHAN, NICKY, US

[72] CHEON, KAPSOO, US

[72] GADY, OLIVIA, FR

[72] CUI, YUBO, US

[72] LAI, CHOUNG-HOUNG, US

[72] GORDON, JAMES N., US

[73] SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION, US

[85] 2021-06-24

[86] 2019-12-19 (PCT/US2019/067329)

[87] (WO2020/139672)

[30] US (62/786,044) 2018-12-28

[11] **3,125,131**
[13] C

[51] **Int.Cl. H01Q 1/42 (2006.01) H01Q 1/28 (2006.01)**

[25] EN

[54] **CONTINUOUS DIELECTRIC CONSTANT ADAPTATION RADOME DESIGN**

[54] **CONCEPTION DE RADOME A ADAPTATION CONTINUE DE CONSTANTE DIELECTRIQUE**

[72] DESCLOUX, DELPHINE, FR

[72] MAZOYER, SIMON, FR

[72] MIMOUN, EMMANUEL, FR

[73] SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION, US

[85] 2021-06-25

[86] 2019-12-16 (PCT/US2019/066610)

[87] (WO2020/139607)

[30] US (62/786,057) 2018-12-28

[11] **3,125,792**
[13] C

[51] **Int.Cl. A61J 3/00 (2006.01)**

[25] EN

[54] **DEVICE FOR TABLETING A POWDER, LIQUID, PASTE, ENCAPSULATED OR GRANULAR ACTIVE INGREDIENT COMPOSITION**

[54] **DISPOSITIF DE MISE EN COMPRIMES D'UNE COMPOSITION DE PRINCIPES ACTIFS PULVERULENTE, LIQUIDE, PATEUSE, ENCAPSULEE OU GRANULAIRE**

[72] SCHMITT, FRITZ, LU

[73] LUXCAN INNOVATION S.A., LU

[85] 2021-07-06

[86] 2019-12-10 (PCT/DE2019/101067)

[87] (WO2020/143864)

[30] DE (10 2019 000 018.8) 2019-01-07

[30] DE (10 2019 000 016.1) 2019-01-07

[30] DE (10 2019 000 199.0) 2019-01-15

[11] **3,126,115**
[13] C

[51] **Int.Cl. B01D 65/08 (2006.01) B08B 17/02 (2006.01) B08B 17/06 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD TO INCREASE SURFACE FRICTION ACROSS A HYDROPHOBIC, ANTI-FOULING, AND OLEOPHOBIC COATED SUBSTRATE**

[54] **SYSTEME ET PROCEDE POUR AUGMENTER LE FROTTEMENT DE SURFACE A TRAVERS UN SUBSTRAT REVETU HYDROPHOBE, ANTI-SALISSURES, ET OLEOPHOBE**

[72] KESTER, NORMAN L., US

[72] GILIKISON, DANNY CHARLES, US

[72] POST, PHILLIP H., US

[72] VOIN, PETER, US

[72] GLARUM, JOHN B., US

[73] QUANTUM INNOVATIONS, INC., US

[85] 2021-07-07

[86] 2020-01-15 (PCT/US2020/013586)

[87] (WO2020/159700)

[30] US (62/798,366) 2019-01-29

[30] US (16/674,905) 2019-11-05

[11] **3,127,397**
[13] C

[51] **Int.Cl. H04W 72/232 (2023.01) H04L 1/1812 (2023.01) H04W 72/1273 (2023.01)**

[25] EN

[54] **INFORMATION SENDING METHOD AND APPARATUS, INFORMATION RECEIVING METHOD AND APPARATUS, BASE STATION, TERMINAL, AND COMMUNICATION SYSTEM**

[54] **PROCEDE ET APPAREIL D'ENVOI D'INFORMATIONS, PROCEDE ET APPAREIL DE RECEPTION D'INFORMATIONS, STATION DE BASE, TERMINAL ET SYSTEME DE COMMUNICATION**

[72] LIU, KUN, CN

[72] DAI, BO, CN

[72] YANG, WEIWEI, CN

[72] FANG, HUIYING, CN

[72] BIAN, LUANJIANG, CN

[72] HU, YOUJUN, CN

[73] ZTE CORPORATION, CN

[85] 2021-07-21

[86] 2020-01-20 (PCT/CN2020/073227)

[87] (WO2020/151661)

[30] CN (201910054154.1) 2019-01-21

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[11] **3,127,621**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/20 (2006.01)**
[25] EN
[54] **PALATABLE FORMULATIONS FORMULATIONS PLAISANTE AU GOUT**
[72] SINGH, PARAMJIT, IN
[72] PANDA, DEBENDRA KUMAR, IN
[72] PRICE, JEFFREY ELLIS, US
[72] BADHAN, ATUL CHHAGAN, IN
[72] CUNNINGHAM, NICHOLAS FINN, US
[73] ZOETIS SERVICES LLC, US
[85] 2021-07-22
[86] 2020-02-19 (PCT/US2020/018762)
[87] (WO2020/172232)
[30] US (62/807,871) 2019-02-20

[11] **3,127,646**
[13] C

[51] **Int.Cl. F16G 13/16 (2006.01) H02G 11/00 (2006.01)**
[25] EN
[54] **OPERATIONALLY STABLE SIDE PLATE FOR AN ENERGY CHAIN MAILLON LATERAL DE CHAINE PORTE-CABLES DE CONCEPTION RESISTANTE AU FONCTIONNEMENT**
[72] HERMEY, ANDREAS, DE
[72] JAEKER, THILO-ALEXANDER, DE
[72] THEISS, GEORG, DE
[72] STRACK, STEFAN, DE
[73] IGUS GMBH, DE
[85] 2021-07-23
[86] 2020-01-22 (PCT/EP2020/051520)
[87] (WO2020/152221)
[30] DE (20 2019 100 465.7) 2019-01-25

[11] **3,127,814**
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01) C12N 5/071 (2010.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **CRISPR/CAS DROPOUT SCREENING PLATFORM TO REVEAL GENETIC VULNERABILITIES ASSOCIATED WITH TAU AGGREGATION**
[54] **PLATE-FORME DE CRIBLAGE CRISPR/CAS POUR REVELER DES VULNERABILITES GENETIQUES ASSOCIEES A UNE AGREGATION DE TAU**
[72] PRISSETTE, MARINE, US
[72] KOSS, MATTHEW, US
[72] BAI, YU, US
[72] ZAMBROWICZ, BRIAN, US
[73] REGENERON PHARMACEUTICALS, INC., US
[85] 2021-07-23
[86] 2020-03-17 (PCT/US2020/023121)
[87] (WO2020/190927)
[30] US (62/820,101) 2019-03-18

[11] **3,128,194**
[13] C

[51] **Int.Cl. D06F 39/20 (2024.01) D06F 33/46 (2020.01)**
[25] EN
[54] **CONTROLLER FOR A RINSE WATER REUSE SYSTEM AND METHODS OF USE**
[54] **DISPOSITIF DE COMMANDE DUN SYSTEME DE REUTILISATION D'EAU DE RINCAGE ET PROCEDES D'UTILISATION**
[72] MONSRUD, LEE, US
[72] GHOSH, KAUSTAV, US
[72] TAYLOR, BARRY R., US
[72] PAULSON-VU, LOAN, US
[72] MUEGGENBORG, BROCK, US
[73] ECOLAB USA INC., US
[85] 2021-07-28
[86] 2020-01-31 (PCT/US2020/016145)
[87] (WO2020/160429)
[30] US (62/799,440) 2019-01-31

[11] **3,128,517**
[13] C

[51] **Int.Cl. E04B 9/22 (2006.01)**
[25] EN
[54] **CEILING PANEL PANNEAU DE PLAFOND**
[72] TANAKA, KOYA, JP
[72] OKADA, YOSHIHIRO, JP
[72] ONO, TATSUJI, JP
[73] PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD., JP
[85] 2021-08-24
[86] 2020-01-30 (PCT/JP2020/003459)
[87] (WO2020/174999)
[30] JP (2019-035241) 2019-02-28

[11] **3,132,052**
[13] C

[51] **Int.Cl. C11D 3/30 (2006.01) C11D 1/00 (2006.01) C11D 3/00 (2006.01)**
[25] EN
[54] **LIQUID PRODUCT FOR STAINLESS-STEEL CORROSION REMEDIATION**
[54] **PRODUIT LIQUIDE POUR LA REPARATION DE LA CORROSION D'ACIER INOXYDABLE**
[72] SMITH, THOMAS WILLIAM, US
[72] KAISER, NANCY-HOPE ELIZABETH, US
[72] FIX, KATHLEEN ANN, US
[73] AMERICAN STERILIZER COMPANY, US
[85] 2021-08-30
[86] 2020-01-30 (PCT/US2020/015778)
[87] (WO2020/185320)
[30] US (16/352,171) 2019-03-13

[11] **3,132,459**
[13] C

[51] **Int.Cl. A46B 13/02 (2006.01) A61C 17/24 (2006.01) A61C 17/26 (2006.01) A61C 17/34 (2006.01)**
[25] EN
[54] **AN ELECTRIC TOOTHBRUSH AND A BRUSH HEAD FOR THE SAME**
[54] **BROSSE A DENTS ELECTRIQUE ET TETE DE BROSSE POUR CELLE-CI**
[72] HUY, GERHART P., US
[73] CHURCH & DWIGHT CO., INC., US
[85] 2021-09-02
[86] 2020-03-05 (PCT/IB2020/051922)
[87] (WO2020/183304)
[30] US (62/815,815) 2019-03-08

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[11] **3,132,622**
[13] C

[51] **Int.Cl. B01J 21/08 (2006.01) B01J 23/04 (2006.01) B01J 37/02 (2006.01) B01J 37/08 (2006.01) C07C 51/00 (2006.01)**

[25] EN

[54] **A PROCESS FOR THE PRODUCTION OF A CATALYST, A CATALYST THEREFROM AND A PROCESS FOR PRODUCTION OF ETHYLENICALLY UNSATURATED CARBOXYLIC ACIDS OR ESTERS**

[54] **PROCESSUS DE PRODUCTION D'UN CATALYSEUR, CATALYSEUR OBTENU A PARTIR DE CELUI-CI ET PROCESSUS DE PRODUCTION D'ACIDES OU D'ESTERS CARBOXYLIQUES ETHYLENIQUEMENT INSATURES**

[72] CULLEN, ADAM, GB

[72] NINOMIYA, WATARU, JP

[73] MITSUBISHI CHEMICAL UK LIMITED, GB

[85] 2021-09-03

[86] 2020-03-13 (PCT/GB2020/050644)

[87] (WO2020/183193)

[30] GB (1903455.2) 2019-03-13

[11] **3,132,644**
[13] C

[51] **Int.Cl. G06F 9/455 (2018.01) G06F 9/50 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF DETECTING APPLICATION AFFINITY USING NETWORK TELEMETRY**

[54] **SYSTEME ET PROCEDE DE DETECTION D'UNE AFFINITE D'APPLICATIONS A L'AIDE D'UNE TELEMESURE DE RESEAU**

[72] ENGUEHARD, MARCEL PAUL SOSTHENE, FR

[72] DESMOUCEAUX, YOANN, FR

[72] SAMAIN, JACQUES OLIVIER, FR

[73] CISCO TECHNOLOGY, INC., US

[85] 2021-09-03

[86] 2020-04-02 (PCT/US2020/026361)

[87] (WO2020/206102)

[30] US (16/375,798) 2019-04-04

[11] **3,132,658**
[13] C

[51] **Int.Cl. H04L 41/082 (2022.01) H04W 8/18 (2009.01) H04W 4/50 (2018.01)**

[25] EN

[54] **CLOUD ENABLING OF LEGACY TRUSTED NETWORKING DEVICES FOR ZERO TOUCH PROVISIONING AND ENTERPRISE AS A SERVICE**

[54] **ACTIVATION EN NUAGE DE DISPOSITIFS DE RESEAUTAGE DE CONFIANCE EXISTANTS POUR ZERO TOUCH PROVISIONING ET ENTREPRISE EN TANT QUE SERVICE**

[72] JAIN, PRAKASH C., US

[72] HOODA, SANJAY KUMAR, US

[73] CISCO TECHNOLOGY, INC., US

[85] 2021-09-03

[86] 2020-03-25 (PCT/US2020/024723)

[87] (WO2020/205370)

[30] US (16/375,574) 2019-04-04

[11] **3,132,797**
[13] C

[51] **Int.Cl. A01N 43/80 (2006.01) A01N 25/04 (2006.01) A01N 25/30 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **AQUEOUS AGROCHEMICAL SUSPENSION COMPOSITION AND METHOD FOR SPRAYING SAME**

[54] **COMPOSITION DE SUSPENSION AGROCHIMIQUE AQUEUSE ET SON PROCEDE DE PULVERISATION**

[72] YOKOYAMA, WAKI, JP

[73] KUMIAI CHEMICAL INDUSTRY CO., LTD., JP

[85] 2021-09-07

[86] 2020-03-04 (PCT/JP2020/009158)

[87] (WO2020/189282)

[30] JP (2019-050487) 2019-03-18

[11] **3,132,895**
[13] C

[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 31/438 (2006.01) A61K 31/4545 (2006.01) A61K 31/496 (2006.01) A61K 31/5377 (2006.01) A61K 31/55 (2006.01) A61P 9/04 (2006.01)**

[25] EN

[54] **USES OF PHOSPHODIESTERASE INHIBITORS**

[54] **UTILISATIONS D'INHIBITEURS DE LA PHOSPHODIESTERASE**

[72] SHENG, ZEJUAN, CN

[72] WU, FRANK, CN

[73] TRANSTHERA SCIENCES (NANJING), INC., CN

[85] 2021-09-08

[86] 2020-03-06 (PCT/CN2020/078215)

[87] (WO2020/182076)

[30] CN (201910174522.6) 2019-03-08

[30] CN (201910235722.8) 2019-03-27

[11] **3,135,254**
[13] C

[51] **Int.Cl. A01N 1/02 (2006.01) G01N 11/00 (2006.01) A61M 1/16 (2006.01) A61M 1/36 (2006.01)**

[25] EN

[54] **ADMINISTRATION AND MONITORING OF NITRIC OXIDE IN EX VIVO FLUIDS**

[54] **ADMINISTRATION ET SUIVI DU MONOXYDE D'AZOTE DANS LES FLUIDES EX VIVO**

[72] COOPER, LISA, US

[72] COSTA, EDDIE, US

[72] GRIEBEL, JEFF, US

[72] HANSELL, DOUGLAS R., US

[72] POTENZIANO, JIM, US

[73] MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED, IE

[86] (3135254)

[87] (3135254)

[22] 2014-12-01

[62] 2,931,943

[30] US (14/095,621) 2013-12-03

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[11] **3,135,438**
[13] C

[51] **Int.Cl. B07B 7/00 (2006.01) B03B 4/00 (2006.01) B09B 5/00 (2006.01)**
[25] EN
[54] **METHOD FOR PROCESSING ELECTRONIC/ELECTRICAL DEVICE COMPONENT SCRAPS**
[54] **PROCEDE DE TRAITEMENT DE DECHETS DE COMPOSANTS DE DISPOSITIFS ELECTRONIQUES/ELECTRIQUES**
[72] AOKI, KATSUSHI, JP
[72] SASAOKA, HIDETOSHI, JP
[72] TAKEDA, TSUBASA, JP
[73] JX METALS CORPORATION, JP
[85] 2021-09-28
[86] 2020-03-27 (PCT/JP2020/014367)
[87] (WO2020/203918)
[30] JP (2019-069382) 2019-03-29

[11] **3,135,471**
[13] C

[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/32 (2013.01) G10L 17/24 (2013.01) G06V 40/16 (2022.01) G06V 40/18 (2022.01) G06V 40/40 (2022.01)**
[25] EN
[54] **APP LOGIN VERIFICATION METHOD AND DEVICE AND COMPUTER READABLE STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE VERIFICATION DE CONNEXION A UNE APPLICATION ET SUPPORT DE STOCKAGE INFORMATIQUE**
[72] DING, JINFEL, CN
[73] 10353744 CANADA LTD., CA
[86] (3135471)
[87] (3135471)
[22] 2021-09-30
[30] CN (202011056334.2) 2020-09-30

[11] **3,135,968**
[13] C

[51] **Int.Cl. H04N 19/103 (2014.01)**
[25] EN
[54] **RESTRICTION ON APPLICABILITY OF CROSS COMPONENT MODE**
[54] **RESTRICTION SUR L'APPLICABILITE D'UN MODE DE COMPOSANTE TRANSVERSALE**
[72] DENG, ZHIPIN, CN
[72] ZHANG, LI, US
[72] LIU, HONGBIN, CN
[72] ZHANG, KAI, US
[72] XU, JIZHENG, US
[73] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[73] BYTEDANCE INC., US
[85] 2021-10-01
[86] 2020-04-20 (PCT/CN2020/085654)
[87] (WO2020/211862)
[30] CN (PCT/CN2019/083320) 2019-04-18

[11] **3,136,298**
[13] C

[51] **Int.Cl. A61G 5/14 (2006.01)**
[25] EN
[54] **CARING DEVICE FOR ASSISTING IN A STANDING OPERATION**
[54] **DISPOSITIF DE SOIN POUR OFFRIR DE L'AIDE DANS UNE ACTIVITE DE LEVAGE**
[72] NOMURA, HIDEAKI, JP
[72] TAKAHASHI, RYU, JP
[72] SHIMIZU, SATOSHI, JP
[73] FUJI CORPORATION, JP
[85] 2021-10-06
[86] 2019-04-12 (PCT/JP2019/016065)
[87] (WO2020/208832)

[11] **3,136,994**
[13] C

[51] **Int.Cl. A01B 19/02 (2006.01) A01B 49/02 (2006.01) A01B 21/08 (2006.01) A01B 73/04 (2006.01)**
[25] EN
[54] **SHARE WEAR REDUCTION**
[54] **REDUCTION D'USURE DE SOC**
[72] MAAS, LUDGER, DE
[72] ACHTEN, GEORG, DE
[73] LEMKEN GMBH & CO KG, DE
[85] 2021-10-15
[86] 2020-04-15 (PCT/DE2020/100304)
[87] (WO2020/211907)
[30] DE (10 2019 205 436.9) 2019-04-15

[11] **3,137,163**
[13] C

[51] **Int.Cl. H04N 19/176 (2014.01) H04N 19/50 (2014.01) H04N 19/61 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **CONSTRAINTS ON QUANTIZED RESIDUAL DIFFERENTIAL PULSE CODE MODULATION REPRESENTATION OF CODED VIDEO**
[54] **CONTRAINTES SUR LA REPRESENTATION D'UNE MODULATION DIFFERENTIELLE PAR IMPULSIONS CODEES DE RESIDU QUANTIFIE POUR UNE VIDEO CODEE**
[72] ZHU, WEIJIA, US
[72] ZHANG, LI, US
[72] XU, JIZHENG, US
[72] CHUANG, HSIAO CHIANG, US
[73] BYTEDANCE INC., US
[85] 2021-10-18
[86] 2020-04-23 (PCT/US2020/029603)
[87] (WO2020/219737)
[30] CN (PCT/CN2019/084008) 2019-04-24

[11] **3,137,287**
[13] C

[51] **Int.Cl. G06F 3/0483 (2013.01)**
[25] EN
[54] **PRESENTATION MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE PRESENTATION**
[72] SEKINE, KIYOSHI, JP
[73] INTERACTIVE SOLUTIONS CORP., JP
[85] 2021-10-18
[86] 2020-02-13 (PCT/JP2020/005537)
[87] (WO2020/261633)
[30] JP (2019-116740) 2019-06-24

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[11] **3,139,194**
[13] C

[51] **Int.Cl. B01J 21/12 (2006.01) B01J 21/18 (2006.01) B01J 23/10 (2006.01) B01J 27/20 (2006.01) B01J 37/03 (2006.01) B01J 37/08 (2006.01) C07C 11/167 (2006.01) C07C 33/025 (2006.01)**

[25] EN

[54] **CATALYST COMPRISING COKE AND PROCESS FOR THE PRODUCTION OF DIENES**

[54] **CATALYSEUR COMPRENANT DU COKE ET PROCESSUS DE PRODUCTION DE DIENES**

[72] VELASQUEZ OCHOA, JULIANA, IT

[72] CAVANI, FABRIZIO, IT

[72] TOSI, IRENE, IT

[72] FARCI, ERIKA, IT

[72] VECCHINI, NICOLA, IT

[73] VERSALIS S.P.A., IT

[73] ALMA MATER STUDIORUM - UNIVERSITA' DI BOLOGNA, IT

[85] 2021-11-23

[86] 2020-08-25 (PCT/IB2020/057922)

[87] (WO2021/038434)

[30] IT (102019000015069) 2019-08-27

[11] **3,139,349**
[13] C

[51] **Int.Cl. F24C 7/02 (2006.01) F24C 15/08 (2006.01)**

[25] EN

[54] **EMBEDDED MICROWAVE OVEN**

[54] **FOUR A MICRO-ONDES INTEGRE**

[72] FENG, LIANGWANG, CN

[72] LI, FENG, CN

[73] GUANGDONG GALANZ ENTERPRISES CO., LTD., CN

[73] GUANGDONG GALANZ MICROWAVE ELECTRICAL APPLIANCES MANUFACTURING CO., LTD., CN

[85] 2021-11-05

[86] 2020-11-20 (PCT/CN2020/130652)

[87] (WO2021/115104)

[30] CN (201911269009.1) 2019-12-11

[11] **3,139,407**
[13] C

[51] **Int.Cl. A23J 1/00 (2006.01) A23J 3/14 (2006.01)**

[25] EN

[54] **DIAFILTRATION**

[54] **DIAFILTRATION**

[72] HABEYCH NARVAEZ, DAVID IGNACIO, NL

[72] TJALMA, LIBBE FOEKES, NL

[72] SPELBRINK, ROBIN ERIC JACOBUS, NL

[72] LAUS, MARC CHRISTIAAN, NL

[73] COOPERATIE KONINKLIJKE AVEBE U.A., NL

[85] 2021-11-05

[86] 2020-05-25 (PCT/NL2020/050336)

[87] (WO2020/242302)

[30] NL (2023197) 2019-05-24

[11] **3,139,846**
[13] C

[51] **Int.Cl. A24F 40/46 (2020.01)**

[25] EN

[54] **NON-CONTACT HEAT NOT BURN HEATING DEVICE**

[54] **DISPOSITIF DE CHAUFFAGE DE CIGARETTE ELECTRONIQUE SANS CONTACT**

[72] ZHU, XIAOHUA, CN

[72] XIONG, ZHAORONG, CN

[72] FU, ZENGXUE, CN

[72] YU, XIANGYI, CN

[72] LIU, MAOQI, CN

[73] XIAMEN FENGTAO CERAMICS CO., LTD, CN

[85] 2021-11-10

[86] 2020-05-15 (PCT/CN2020/090423)

[87] (WO2020/228805)

[30] CN (201920703370.X) 2019-05-16

[30] CN (201922439531.1) 2019-12-30

[30] CN (201911397002.8) 2019-12-30

[30] CN (201922448707.X) 2019-12-30

[30] CN (202020734040.X) 2020-05-07

[30] CN (202020733034.2) 2020-05-07

[11] **3,140,749**
[13] C

[51] **Int.Cl. G10L 19/04 (2013.01)**

[25] EN

[54] **MODEL BASED PREDICTION IN A CRITICALLY SAMPLED FILTERBANK**

[54] **PREDICTION MODELISEE DANS UN BANC DE FILTRES A ECHANTILLONNAGE CRITIQUE**

[72] VILLEMOES, LARS, SE

[73] DOLBY INTERNATIONAL AB, IE

[86] (3140749)

[87] (3140749)

[22] 2014-01-07

[62] 3,121,651

[30] US (61/750052) 2013-01-08

[30] US (61/875528) 2013-09-09

[11] **3,141,033**
[13] C

[51] **Int.Cl. C10M 159/12 (2006.01) C10M 133/16 (2006.01)**

[25] EN

[54] **LESS CORROSIVE ORGANIC COMPOUNDS AS LUBRICANT ADDITIVES**

[54] **COMPOSES ORGANIQUES MOINS CORROSIFS UTILISES COMME ADDITIFS POUR LUBRIFIANTS**

[72] CASEY, BRIAN M., US

[72] GATTO, VINCENT J., US

[73] VANDERBILT CHEMICALS, LLC, US

[85] 2021-11-17

[86] 2020-04-02 (PCT/US2020/026350)

[87] (WO2020/236323)

[30] US (16/415,535) 2019-05-17

**Canadian Patents Issued
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[11] **3,141,413**
[13] C

[51] **Int.Cl. C07F 9/6558 (2006.01) A61K 31/4545 (2006.01) A61K 31/506 (2006.01) A61K 31/675 (2006.01) A61P 35/00 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **ALK PROTEIN REGULATOR AND ANTI-TUMOR APPLICATION THEREOF**

[54] **REGULATEUR DE PROTEINE ALK ET SON APPLICATION ANTITUMORALE**

[72] YANG, XIAOBAO, CN

[72] JIANG, BIAO, CN

[72] SONG, XIAOLING, CN

[72] SUN, NING, CN

[72] REN, CHAOWEI, CN

[72] KONG, YING, CN

[72] ZHANG, JIANSUI, CN

[72] CHEN, JINJU, CN

[72] LI, YAN, CN

[72] ZHOU, YUEDONG, CN

[73] SHANGHAITECH UNIVERSITY, CN

[85] 2021-12-10

[86] 2020-06-11 (PCT/CN2020/095616)

[87] (WO2020/249048)

[30] CN (201910505073.9) 2019-06-12

[11] **3,142,098**
[13] C

[51] **Int.Cl. B01D 21/30 (2006.01) E21B 43/34 (2006.01)**

[25] EN

[54] **SAND DISCHARGE CONTROL SYSTEM**

[54] **SYSTEME DE COMMANDE DE DECHARGEMENT DE SABLE**

[72] PITCHER, JASON, US

[73] BATFER INVESTMENT S.A., UY

[86] (3142098)

[87] (3142098)

[22] 2021-12-14

[30] US (17/362,234) 2021-06-29

[11] **3,142,331**
[13] C

[51] **Int.Cl. C23C 28/02 (2006.01) C23C 14/02 (2006.01) C23C 14/16 (2006.01) C23C 14/22 (2006.01) C23C 30/00 (2006.01)**

[25] EN

[54] **A METHOD FOR MANUFACTURING AN ASSEMBLY**

[54] **PROCEDE DE FABRICATION D'UN ASSEMBLAGE**

[72] PERLADE, ASTRID, FR

[72] MUSIK, CELINE, FR

[72] KACZYNSKI, CHRISTINE, FR

[72] BENLATRECHE, YACINE, FR

[72] CAVALLOTTI, REMI, FR

[73] ARCELORMITTAL, LU

[85] 2021-11-30

[86] 2020-06-05 (PCT/IB2020/055293)

[87] (WO2020/245773)

[30] IB (PCT/IB2019/054667) 2019-06-05

[11] **3,142,411**
[13] C

[51] **Int.Cl. H05K 7/20 (2006.01) F24F 1/028 (2019.01) F24F 5/00 (2006.01) F25D 31/00 (2006.01) G05B 19/042 (2006.01) G06F 1/20 (2006.01) H01L 23/36 (2006.01)**

[25] EN

[54] **CPU HEAT DISSIPATION APPARATUS OF INDUSTRIAL CONTROL COMPUTER AND USING METHOD THEREOF**

[54] **APPAREIL DE DISSIPATION THERMIQUE DE CPU D'ORDINATEUR PILOTE INDUSTRIEL ET METHODE D'UTILISATION**

[72] HUANG, YONGZHENG, CN

[73] ADVANTECH TECHNOLOGY (CHINA) CO., LTD., CN

[85] 2021-11-30

[86] 2021-08-25 (PCT/CN2021/114541)

[87] (WO2023/279498)

[30] CN (202110765618.7) 2021-07-06

[11] **3,143,107**
[13] C

[51] **Int.Cl. H04L 9/32 (2006.01) H04L 61/2589 (2022.01) H04L 67/141 (2022.01) G06F 9/455 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS PROVIDING A MULTI-CLOUD MICROSERVICES GATEWAY USING A SIDECAR PROXY**

[54] **SYSTEMES ET PROCEDES FOURNISSANT UNE PASSERELLE DE MICROSERVICES MULTI-CLOUD A L'AIDE D'UN PROXY SIDE-CAR**

[72] MESTERY, KYLE ANDREW DONALD, US

[72] TOLLET, JEROME, FR

[72] WELLS, IAN, US

[72] AUGUSTIN, ALOYS CHRISTOPHE, FR

[73] CISCO TECHNOLOGY, INC., US

[85] 2021-12-08

[86] 2020-06-04 (PCT/US2020/036072)

[87] (WO2020/251828)

[30] US (16/439,441) 2019-06-12

[11] **3,143,240**
[13] C

[51] **Int.Cl. H04N 19/124 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **IMAGE DECODING AND ENCODING METHODS AND APPARATUS THEREFOR**

[54] **METHODES DE DECODAGE ET DE CODAGE D'IMAGE ET APPAREIL CONNEXE**

[72] PALURI, SEETHAL, KR

[72] KIM, SEUNGHWAN, KR

[72] ZHAO, JIE, KR

[73] LG ELECTRONICS INC., KR

[85] 2021-12-10

[86] 2020-06-11 (PCT/KR2020/007561)

[87] (WO2020/251269)

[30] US (62/860,233) 2019-06-11

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[11] **3,143,311**

[13] C

- [51] **Int.Cl. G01P 3/36 (2006.01) B05B 7/14 (2006.01) B05D 1/12 (2006.01) C23C 24/04 (2006.01) G01P 3/38 (2006.01) G01P 3/40 (2006.01) G01P 3/68 (2006.01)**
- [25] EN
- [54] **METHOD AND APPARATUS FOR MONITORING A FLOW FIELD OF A PARTICLE JET**
- [54] **PROCEDE ET APPAREIL DE SURVEILLANCE DE CHAMP D'ECOULEMENT D'UN JET DE PARTICULES**
- [72] LARJO, JUSSI PEKKA, FI
- [73] OSEIR OY, FI
- [85] 2021-12-13
- [86] 2020-06-11 (PCT/FI2020/050408)
- [87] (WO2020/260754)
- [30] FI (20195557) 2019-06-24

[11] **3,143,379**

[13] C

- [51] **Int.Cl. G01R 31/08 (2020.01)**
- [25] EN
- [54] **SYSTEM FOR DETERMINING ELECTRIC PARAMETERS OF AN ELECTRIC POWER GRID**
- [54] **SYSTEME DE DETERMINATION DE PARAMETRES ELECTRIQUES D'UN RESEAU ELECTRIQUE**
- [72] BERRY, BRIAN, GB
- [72] VENTOLA, MIKA, GB
- [72] GHEORGHE, DANIEL, GB
- [72] PELTOLA, TIMO, GB
- [72] ALAKONTIOLA, JUKKA, GB
- [73] REACTIVE TECHNOLOGIES LIMITED, GB
- [85] 2021-12-14
- [86] 2020-06-09 (PCT/EP2020/065896)
- [87] (WO2020/260003)
- [30] EP (19182247.7) 2019-06-25

[11] **3,144,033**

[13] C

- [51] **Int.Cl. G06V 20/50 (2022.01) G06T 7/70 (2017.01) G06V 10/10 (2022.01) G06V 10/20 (2022.01)**
- [25] EN
- [54] **AUTOMATED ROOM SHAPE DETERMINATION USING VISUAL DATA OF MULTIPLE CAPTURED IN-ROOM IMAGES**
- [54] **DETERMINATION AUTOMATISEE DE LA FORME D'UNE PIECE AU MOYEN DE DONNEES VISUELLES PROVENANT DE MULTIPLES IMAGES ENREGISTREES DANS LA PIECE**
- [72] LI, YUGUANG, US
- [72] BOYADZHIEV, IVAYLO, US
- [72] BUEHLER, CHRISTOPHER, US
- [72] HUTCHCROFT, WILL ADRIAN, US
- [73] MFTB HOLDCO, INC., US
- [86] (3144033)
- [87] (3144033)
- [22] 2021-12-24
- [30] US (17/386,281) 2021-07-27

[11] **3,144,874**

[13] C

- [51] **Int.Cl. A61K 35/30 (2015.01) A61K 38/17 (2006.01) A61K 48/00 (2006.01) A61P 25/28 (2006.01)**
- [25] EN
- [54] **COMPOSITION AND METHOD FOR INHIBITING TAU PROTEIN ACCUMULATION, AGGREGATION, AND TANGLE FORMATION**
- [54] **COMPOSITION ET METHODE D'INHIBITION DE L'ACCUMULATION, L'AGREGATION ET LA FORMATION D'ENCHEVETREMENTS DE PROTEINE TAU**
- [72] KIM, TAE GYUN, KR
- [73] INNOPEUTICS CORPORATION, KR
- [85] 2022-01-19
- [86] 2020-09-15 (PCT/KR2020/012429)
- [87] (WO2020/242279)
- [30] KR (10-2019-0115466) 2019-09-19
- [30] KR (10-2020-0106368) 2020-08-24

[11] **3,146,605**

[13] C

- [51] **Int.Cl. G07C 3/00 (2006.01) G06V 40/10 (2022.01) A47K 1/00 (2006.01) A61L 2/26 (2006.01)**
- [25] EN
- [54] **PERSONNEL TRACKING AND DISINFECTING SYSTEM AND METHOD**
- [54] **SYSTEME ET METHODE DE SUIVI ET DE DESINFECTION DES MEMBRES DU PERSONNEL**
- [72] CHENG, CHIA-JEN, TW
- [72] TSAI, CHIH-WEI, TW
- [72] WANG, CHIH-HSIEN, TW
- [73] DELTA ELECTRONICS, INC., CN
- [86] (3146605)
- [87] (3146605)
- [22] 2022-01-25
- [30] CN (202111060176.2) 2021-09-10

[11] **3,147,229**

[13] C

- [51] **Int.Cl. A61B 17/04 (2006.01)**
- [25] EN
- [54] **MULTIPLE-FIRING SUTURE FIXATION DEVICE**
- [54] **DISPOSITIF DE FIXATION DE SUTURES A DECHARGES MULTIPLES**
- [72] SMITH, KEVIN W., US
- [72] MENDEZ, MAX PIERRE, US
- [72] PALMER, MATTHEW A., US
- [72] MCBRAYER, M. SEAN, US
- [72] DEVILLE, DEREK DEE, US
- [72] CARTLEDGE, RICHARD, US
- [72] KLINE, KOREY, US
- [72] RIVERA, CARLOS, US
- [72] NUNEZ, GEORGE, US
- [72] BALES, THOMAS O., JR., US
- [73] EDWARDS LIFESCIENCES AG, FR
- [86] (3147229)
- [87] (3147229)
- [22] 2014-11-18
- [62] 2,934,307
- [30] US (61/905,578) 2013-11-18
- [30] US (61/951,162) 2014-03-11
- [30] US (62/069,183) 2014-10-27
- [30] US (14/543,240) 2014-11-17

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[11] **3,148,140**
[13] C

[51] **Int.Cl. A01N 47/44 (2006.01) A01N 25/16 (2006.01) A01N 25/30 (2006.01) A01N 31/02 (2006.01) A01N 43/16 (2006.01) A01P 1/00 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL CLEANSING COMPOSITIONS COMPRISING BISBIGUANIDE ANTIMICROBIAL ACTIVE**

[54] **COMPOSITIONS DE NETTOYAGE ANTIMICROBIENNES COMPRENANT UN INGREDIENT ACTIF DE BISBIGUANIDE**

[72] EL YACOUBI, KAMEL, FR
[72] GREBOVAL, ELODIE, FR
[72] TOREST, JOHANNA, FR
[72] STROHL, PHILIPPE, FR
[73] GOJO INDUSTRIES, INC., US
[85] 2022-01-20
[86] 2019-07-22 (PCT/IB2019/056255)
[87] (WO2021/014193)

[11] **3,148,411**
[13] C

[51] **Int.Cl. G08B 29/18 (2006.01) G08B 21/14 (2006.01) G08B 29/12 (2006.01)**

[25] EN

[54] **SMART-HOME HAZARD DETECTOR PROVIDING CONTEXT SPECIFIC FEATURES AND/OR PRE-ALARM CONFIGURATIONS**

[54] **DETECTEUR DE RISQUE POUR MAISON INTELLIGENTE, PERMETTANT D'OBTENIR DES CARACTERISTIQUES SPECIFIQUES A UN CONTEXTE ET/OU DES CONFIGURATIONS DE PRE-ALARME**

[72] SLOO, DAVID, US
[72] WEBB, NICK, US
[72] FADELL, ANTHONY M., US
[72] DIXON, MICHAEL, US
[72] MATSUOKA, YOKY, US
[72] PETERSON, KEVIN, US
[72] ROGERS, MATTHEW L., US
[73] GOOGLE LLC, US
[86] (3148411)
[87] (3148411)
[22] 2014-10-07
[62] 2,926,811
[30] US (61/887,969) 2013-10-07
[30] US (61/887,963) 2013-10-07
[30] US (14/508,555) 2014-10-07
[30] US (14/508,536) 2014-10-07
[30] US (14/508,521) 2014-10-07
[30] US (14/508,502) 2014-10-07

[11] **3,151,391**
[13] C

[51] **Int.Cl. B61L 25/02 (2006.01) G01C 21/16 (2006.01) G01C 22/00 (2006.01) G01C 25/00 (2006.01) G01S 13/06 (2006.01)**

[25] EN

[54] **PORTABLE POSITIONING AND ODOMETRY SYSTEM**

[54] **SYSTEME PORTABLE DE POSITIONNEMENT ET D'ODOMETRIE**

[72] KINIO, WALTER, CA
[72] ROCHEFORT, RUDY, CA
[72] GREEN, ALON, CA
[73] GROUND TRANSPORTATION SYSTEMS CANADA INC., CA
[85] 2022-03-16
[86] 2020-10-16 (PCT/IB2020/059779)
[87] (WO2021/074892)
[30] US (62/916,715) 2019-10-17

[11] **3,151,398**
[13] C

[51] **Int.Cl. B61L 23/14 (2006.01) B61L 25/02 (2006.01) B61L 27/04 (2006.01)**

[25] EN

[54] **METHOD FOR CBTC SYSTEM MIGRATION USING AUTONOMY PLATFORM**

[54] **PROCEDE DE MIGRATION DE SYSTEME CBTC A L'AIDE D'UNE PLATEFORME D'AUTONOMIE**

[72] KINIO, WALTER, CA
[72] ROCHEFORT, RUDY, CA
[72] GREEN, ALON, CA
[73] GROUND TRANSPORTATION SYSTEMS CANADA INC., CA
[85] 2022-03-16
[86] 2020-10-16 (PCT/IB2020/059781)
[87] (WO2021/074894)
[30] US (62/916,705) 2019-10-17

[11] **3,151,523**
[13] C

[51] **Int.Cl. G01N 1/22 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR USE WITH CHEMICAL VAPOUR SAMPLING MATERIAL**

[54] **DISPOSITIFS ET PROCES DE DESTINES A ETRE UTILISES AVEC UN MATERIAU D'ECHANTILLONNAGE DE VAPEUR CHIMIQUE**

[72] CECCATO, CLAUDIO, AU
[73] THE COMMONWEALTH OF AUSTRALIA, AU
[85] 2022-03-17
[86] 2020-09-18 (PCT/AU2020/050989)
[87] (WO2021/051166)
[30] AU (2019903490) 2019-09-19

[11] **3,151,588**
[13] C

[51] **Int.Cl. E21B 33/12 (2006.01) C08L 47/00 (2006.01) C09K 8/24 (2006.01)**

[25] EN

[54] **DICYCLOPENTADIENE AS AN OIL SWELLABLE PACKER MATERIAL**

[54] **DICYCLOPENTADIENE EN TANT QUE MATERIAU DE GARNITURE D'ETANCHEITE POUVANT GONFLER AVEC DE L'HUILE**

[72] SMITH, CHARLES TIMOTHY, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-03-17
[86] 2019-10-23 (PCT/US2019/057540)
[87] (WO2021/080574)
[30] US (16/661,043) 2019-10-23

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[11] **3,152,228**
[13] C

[51] **Int.Cl. H04N 19/186 (2014.01) H04N 19/117 (2014.01) H04N 19/176 (2014.01) H04N 19/86 (2014.01)**

[25] EN

[54] **AN ENCODER, A DECODER AND CORRESPONDING METHODS FOR PERFORMING CHROMA DEBLOCKING FOR BLOCKS WHICH USE JOINT CHROMA CODING**

[54] **ENCODEUR, DECODEUR ET PROCEDES CORRESPONDANTS POUR EFFECTUER UN DEGROUPEMENT DE CHROMINANCE POUR DES BLOCS QUI UTILISENT UN CODAGE DE CHROMINANCE JOINTE**

[72] KOTRA, ANAND MEHER, DE

[72] ALSHINA, ELENA

[72] ALEXANDROVNA, DE

[72] ESENLIK, SEMIH, DE

[72] WANG, BIAO, DE

[72] GAO, HAN, DE

[72] CHERNYAK, ROMAN IGOREVICH, CN

[73] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2022-02-23

[86] 2020-08-24 (PCT/CN2020/110914)

[87] (WO2021/037004)

[30] EP (PCT/EP2019/072643) 2019-08-23

[30] RU (PCT/RU2019/000639) 2019-09-16

[30] EP (PCT/EP2019/077057) 2019-10-07

[11] **3,152,464**
[13] C

[51] **Int.Cl. H04N 19/70 (2014.01)**

[25] EN

[54] **METHODS AND SYSTEMS TO SIGNAL INTER-LAYER ENABLED SYNTAX ELEMENT IN VIDEO CODING**

[54] **METHODS ET SYSTEMES POUR SIGNALER UN ELEMENT DE SYNTAXE A INTERCOUCHE ACTIVEE DANS LE CODAGE VIDEO**

[72] MA, XIANG, CN

[72] YANG, HAITAO, CN

[73] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2022-03-24

[86] 2020-09-24 (PCT/CN2020/117557)

[87] (WO2021/057869)

[30] CN (PCT/CN2019/107594) 2019-09-24

[11] **3,152,686**
[13] C

[51] **Int.Cl. G06F 9/44 (2018.01) G06Q 40/04 (2012.01) G06F 3/0484 (2022.01) G06F 8/34 (2018.01)**

[25] EN

[54] **USER-DEFINED ALGORITHM ELECTRONIC TRADING**

[54] **ALGORITHME DEFINI PAR L'UTILISATEUR POUR LA BOURSE EN LIGNE**

[72] LANE, RICHARD, US

[72] UNETICH, MICHAEL, US

[72] LIDOR, DANIEL, US

[72] EDWARDS, NATHAN, US

[73] TRADING TECHNOLOGIES INTERNATIONAL, INC., US

[86] (3152686)

[87] (3152686)

[22] 2010-10-19

[62] 2,774,398

[30] US (61/253,324) 2009-10-20

[30] US (61/253,315) 2009-10-20

[30] US (61/263,300) 2009-11-20

[30] US (61/312,003) 2010-03-09

[30] US (61/318,685) 2010-03-29

[30] US (61/320,061) 2010-04-01

[30] US (61/393,313) 2010-10-14

[30] US (12/905,726) 2010-10-15

[30] US (12/905,709) 2010-10-15

[11] **3,153,124**
[13] C

[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/05 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS TO PLACE ONE OR MORE LEADS IN TISSUE TO ELECTRICALLY STIMULATE NERVES OF PASSAGE TO TREAT PAIN**

[54] **SYSTEMES ET PROCEDES POUR PLACER UNE OU PLUSIEURS DERIVATIONS DANS UN TISSU POUR STIMULER ELECTRIQUEMENT DES NERFS DE PASSAGE POUR TRAITER LA DOULEUR**

[72] BOGGS, JOSEPH W., II, US

[73] SPR THERAPEUTICS, INC., US

[86] (3153124)

[87] (3153124)

[22] 2009-12-07

[62] 2,761,278

[30] US (61/201,030) 2008-12-05

[11] **3,153,503**
[13] C

[51] **Int.Cl. G01R 33/54 (2006.01) G01R 33/46 (2006.01) G01R 33/483 (2006.01) G01R 33/56 (2006.01) G01R 33/561 (2006.01)**

[25] EN

[54] **MAXWELL PARALLEL IMAGING**

[54] **IMAGERIE PARALLELE MAXWELL**

[72] FERNANDEZ VILLENA, JORGE, PT

[72] LEFKIMMIATIS, STAMATIOS, GR

[72] POLYMERIDIS, ATHANASIOS, GR

[72] TAYLI, DORUK, US

[73] Q BIO, INC., US

[85] 2022-03-04

[86] 2020-09-25 (PCT/US2020/052717)

[87] (WO2021/062154)

[30] US (62/907,516) 2019-09-27

[11] **3,154,186**
[13] C

[51] **Int.Cl. G06V 20/50 (2022.01) G06T 7/30 (2017.01) G06T 7/90 (2017.01) G06V 10/10 (2022.01) G06T 11/60 (2006.01)**

[25] EN

[54] **AUTOMATED BUILDING FLOOR PLAN GENERATION USING VISUAL DATA OF MULTIPLE BUILDING IMAGES**

[54] **GENERATION AUTOMATIQUE D'UN PLAN D'ETAGE DE BATIMENT AU MOYEN DE DONNEES VISUELLES DE MULTIPLES IMAGES DE BATIMENT**

[72] LAMBERT, JOHN W., US

[72] LI, YUGUANG, US

[72] BOYADZHIEV, IVAYLO, US

[72] WIXSON, LAMBERT E., US

[73] MFTB HOLDCO, INC., US

[86] (3154186)

[87] (3154186)

[22] 2022-04-05

[30] US (17/585,433) 2022-01-26

[30] US (63/272,854) 2021-10-28

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[11] **3,154,554**
[13] C

[51] **Int.Cl. H04W 16/14 (2009.01) H04L 5/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS FOR MULTICARRIER UNLICENSED HETEROGENEOUS CHANNEL ACCESS**

[54] **APPAREIL ET PROCÉDES D'ACCÈS À UN CANAL HÉTÉROGÈNE SANS LICENCE MULTIPORTEUSE**

[72] MUKHERJEE, AMITAV, US

[72] VAIDYA, MAULIK, US

[73] CHARTER COMMUNICATIONS OPERATING, LLC, US

[85] 2022-03-11

[86] 2020-09-11 (PCT/US2020/050512)

[87] (WO2021/050957)

[30] US (16/567,509) 2019-09-11

[11] **3,155,330**
[13] C

[51] **Int.Cl. A45D 20/10 (2006.01) A45D 20/12 (2006.01)**

[25] EN

[54] **HAIRDRYER**

[54] **SECHE-CHEVEUX**

[72] CEVA, CARLOS JOSE, IT

[73] GA.MA S.R.L, IT

[85] 2022-04-20

[86] 2020-11-03 (PCT/IB2020/060292)

[87] (WO2021/090155)

[30] IT (102019000020314) 2019-11-04

[11] **3,158,056**
[13] C

[51] **Int.Cl. B60D 1/48 (2006.01) A01B 59/043 (2006.01) A01B 69/00 (2006.01) B60D 1/28 (2006.01) B60D 1/30 (2006.01) B60D 1/36 (2006.01) B60D 1/42 (2006.01)**

[25] EN

[54] **SYSTEM FOR CONNECTING IMPLEMENT TO MOBILE MACHINERY**

[54] **SYSTÈME POUR RELIER UN OUTIL À DES MACHINES MOBILES**

[72] MOLLICK, PETER J., US

[73] MOLLICK, PETER J., US

[86] (3158056)

[87] (3158056)

[22] 2018-09-27

[62] 3,018,862

[11] **3,158,796**
[13] C

[51] **Int.Cl. B29C 70/06 (2006.01) B29C 70/16 (2006.01)**

[25] EN

[54] **A CONTROL METHOD FOR WINDING DEFORMATION OF FIBER FABRIC AND A FORMING MOULD THEREOF**

[54] **PROCÉDE DE MAÎTRISE DE DÉFORMATION D'ENROULEMENT DE TISSU EN FIBRES ET MOULE DE FORMAGE DE CE DERNIER**

[72] KONG, WEIYI, CN

[72] ZHANG, XUAN, CN

[72] ZHANG, JIAN, CN

[73] AECC COMMERCIAL AIRCRAFT ENGINE CO., LTD., CN

[85] 2022-04-22

[86] 2021-04-12 (PCT/CN2021/086460)

[87] (WO2022/021936)

[30] CN (202010745047.6) 2020-07-29

[11] **3,159,028**
[13] C

[51] **Int.Cl. G06F 40/205 (2020.01) G06N 20/00 (2019.01) G06F 40/279 (2020.01)**

[25] EN

[54] **ARTIFICIAL INTELLIGENCE BASED COMPLIANCE DOCUMENT PROCESSING**

[54] **TRAITEMENT DE DOCUMENT D'OBSERVATION FONDE SUR L'INTELLIGENCE ARTIFICIELLE**

[72] MATIAS, JOVEN, US

[72] YU, JAY JIE-BING, US

[72] SINGH, ANU, US

[72] WEI, LING FENG, US

[73] INTUIT INC., US

[86] (3159028)

[87] (3159028)

[22] 2022-05-17

[30] US (17/491,495) 2021-09-30

[11] **3,159,070**
[13] C

[51] **Int.Cl. B01L 3/00 (2006.01) A61B 10/00 (2006.01)**

[25] EN

[54] **APPARATUS AND ASSOCIATED METHODS FOR REDUCING FLUID IN BIOPSY TISSUE HANDLING SYSTEM FOR IMPROVING IMAGING QUALITY**

[54] **APPAREIL ET PROCÉDES ASSOCIÉS POUR RÉDUIRE UN FLUIDE DANS UN SYSTÈME DE MANIPULATION DE TISSU DE BIOPSIE POUR AMÉLIORER LA QUALITÉ D'IMAGERIE**

[72] DEFREITAS, KENNETH F., US

[72] STANGO, TIM, US

[72] FARBIZIO, TOM, US

[73] HOLOGIC, INC., US

[85] 2022-04-25

[86] 2020-11-25 (PCT/US2020/062181)

[87] (WO2021/108515)

[30] US (62/941,395) 2019-11-27

[11] **3,159,074**
[13] C

[51] **Int.Cl. A47G 29/14 (2006.01) E05F 15/611 (2015.01) E05F 15/63 (2015.01) E05F 15/73 (2015.01) A47B 81/00 (2006.01) A47B 96/00 (2006.01)**

[25] EN

[54] **DOOR MOVEMENT SYSTEM FOR CABINET**

[54] **SYSTÈME DE MOUVEMENT DE PORTE POUR UNE ARMOIRE**

[72] LESSARD, CAROL, US

[72] MICHALKO, KELLY, US

[73] CARTER-HOFFMANN, LLC, US

[85] 2022-04-25

[86] 2021-04-22 (PCT/US2021/028574)

[87] (WO2021/221984)

[30] US (63/015,931) 2020-04-27

[30] US (63/159,175) 2021-03-10

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[11] **3,159,999**

[13] C

- [51] **Int.Cl. F04D 29/40 (2006.01) B60K 8/00 (2006.01) B63H 1/12 (2006.01) B64C 11/00 (2006.01) F01D 1/08 (2006.01) F01D 17/12 (2006.01) F04D 17/08 (2006.01)**
- [25] EN
- [54] **CONTROL SYSTEM FOR ROTATING THRUST-PRODUCING APPARATUS**
- [54] **SYSTEME DE COMMANDE POUR UN APPAREIL DE PRODUCTION DE POUSSEE ROTATIVE**
- [72] QUINN, STEVEN P., US
- [73] QUINN AEROSPACE INC., US
- [86] (3159999)
- [87] (3159999)
- [22] 2022-05-24
- [30] US (17/349,130) 2021-06-16

[11] **3,162,425**

[13] C

- [51] **Int.Cl. H04L 41/044 (2022.01) H04L 41/40 (2022.01)**
- [25] EN
- [54] **DEVICE ABSTRACTION PROXY**
- [54] **MANDATAIRE D'ABSTRACTION DE DISPOSITIF**
- [72] GOLDBURG, MARC, US
- [72] BEDNARZ, PHILIP, US
- [73] ADAPTIVE SPECTRUM AND SIGNAL ALIGNMENT, INC., US
- [86] (3162425)
- [87] (3162425)
- [22] 2010-11-02
- [62] 3,077,815
- [30] US (61/257,402) 2009-11-02

[11] **3,162,923**

[13] C

- [51] **Int.Cl. G06F 16/901 (2019.01) G06N 20/00 (2019.01)**
- [25] EN
- [54] **HETEROGENEOUS GRAPH EMBEDDING**
- [54] **INCORPORATION DE GRAPHIQUE HETEROGENE**
- [72] ZHAO, RUNHUA, US
- [73] INTUIT INC., US
- [85] 2022-05-25
- [86] 2021-08-13 (PCT/US2021/045865)
- [87] (WO2022/072072)
- [30] US (17/037,470) 2020-09-29

[11] **3,163,214**

[13] C

- [51] **Int.Cl. G06F 21/31 (2013.01) G06N 3/02 (2006.01)**
- [25] EN
- [54] **ACCOUNT AUTHENTICATION USING SYNTHETIC MERCHANTS**
- [54] **AUTHENTICATION DE COMPTE AU MOYEN DE MARCHAND SYNTHETIQUE**
- [72] EDWARDS, JOSHUA, US
- [72] MELENDEZ, JENNY, US
- [72] MAIMAN, TYLER, US
- [72] SEPTIMUS, DAVID, US
- [72] CHAUDHARY, VIRAJ, US
- [72] RAPOWITZ, SAMUEL, US
- [72] MILLER, DANIEL, US
- [73] CAPITAL ONE SERVICES, LLC, US
- [86] (3163214)
- [87] (3163214)
- [22] 2022-06-15
- [30] US (17/354,053) 2021-06-22

[11] **3,165,065**

[13] C

- [51] **Int.Cl. B01L 3/00 (2006.01) B01D 11/04 (2006.01)**
- [25] EN
- [54] **DEVICE AND METHOD FOR SEPARATION OF COMPONENTS OF A SAMPLE**
- [54] **DISPOSITIF ET PROCEDE DE SEPARATION DE COMPOSANTS D'UN ECHANTILLON**
- [72] VYORAL, DANIEL, CZ
- [72] KRIJT, MATYAS, CZ
- [73] USTAV HEMATOLOGIE A KREVNI TRANSFUZE, CZ
- [85] 2022-07-15
- [86] 2021-01-28 (PCT/CZ2021/050011)
- [87] (WO2021/151405)
- [30] CZ (PUV 2020-37201) 2020-01-31
- [30] CZ (PV 2020-47) 2020-01-31

[11] **3,165,142**

[13] C

- [51] **Int.Cl. G06F 21/54 (2013.01) G06F 21/78 (2013.01) G06F 9/455 (2018.01)**
- [25] EN
- [54] **VIRTUAL MACHINE PERFECT FORWARD SECRECY**
- [54] **CONFIDENTIALITE DE TRANSMISSION PARFAITE DE MACHINE VIRTUELLE**
- [72] GREEN, MATTHEW, AU
- [72] MADINENI, NARAYANA ADITYA, AU
- [72] GRAY, MICHAEL, AU
- [72] MCLEAN, LEIGH, AU
- [73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
- [85] 2022-07-18
- [86] 2021-03-10 (PCT/EP2021/056100)
- [87] (WO2021/180812)
- [30] US (16/816,467) 2020-03-12

[11] **3,165,642**

[13] C

- [51] **Int.Cl. A61N 1/05 (2006.01) A61N 1/36 (2006.01)**
- [25] EN
- [54] **CONFIGURING A DEEP BRAIN STIMULATION (DBS) SYSTEM TO TREAT A NEUROLOGICAL DISORDER**
- [54] **CONFIGURATION D'UN SYSTEME DE STIMULATION CEREBRALE PROFONDE (DBS) POUR TRAITER UN TROUBLE NEUROLOGIQUE**
- [72] MACHADO, ANDRE, US
- [72] GOPALAKRISHNAN, RAGHAVAN, US
- [72] BAKER, KENNETH, US
- [73] THE CLEVELAND CLINIC FOUNDATION, US
- [85] 2022-07-21
- [86] 2021-01-21 (PCT/US2021/014283)
- [87] (WO2021/150660)
- [30] US (62/964,710) 2020-01-23

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[11] **3,165,682**
[13] C

[51] **Int.Cl. C08F 2/26 (2006.01) C07F 7/08 (2006.01) C08F 2/30 (2006.01) C08F 230/08 (2006.01)**

[25] EN

[54] **AQUEOUS DISPERSION OF ACRYLATE-SILOXANE COPOLYMER PARTICLES**

[54] **DISPERSION AQUEUSE DE PARTICULES DE COPOLYMERE D'ACRYLATE-SILOXANE**

[72] BUSS, HILDA G., US

[72] CARTER, MATTHEW, US

[72] EVEN, RALPH C., US

[72] FISK, JASON S., US

[72] JELETIC, MATTHEW, US

[72] KUO, TZU-CHI, US

[72] LAN, TIAN, US

[72] LIU, NANGUO, US

[72] MCCULLOCH, BRYAN L., US

[72] MECCA, JODI M., US

[72] NOWBAHAR, ARASH R., US

[72] RATANI, TANVI S., US

[72] SATHIOSATHAM, MUHUNTHAN, US

[72] WOODWORTH, RICHARD P., US

[72] ZENG, FANWEN, US

[73] DOW GLOBAL TECHNOLOGIES LLC, US

[73] DOW SILICONES CORPORATION, US

[73] ROHM AND HAAS COMPANY, US

[85] 2022-07-21

[86] 2021-02-10 (PCT/US2021/017312)

[87] (WO2021/163085)

[30] US (62/976,395) 2020-02-14

[11] **3,167,330**
[13] C

[51] **Int.Cl. H04W 68/00 (2009.01) H04W 16/06 (2009.01)**

[25] EN

[54] **DYNAMIC RECLAMATION OF RESOURCES RESERVED FOR FORWARD COMPATIBILITY**

[54] **RECUPERATION DYNAMIQUE DE RESSOURCES RESERVEES POUR UNE COMPATIBILITE ASCENDANTE**

[72] NAM, WOOSEOK, US

[72] LUO, TAO, US

[72] AKKARAKARAN, SONY, US

[72] JOHN WILSON, MAKESH PRAVIN, US

[72] NAGARAJA, SUMEETH, US

[72] CHAKRABORTY, KAUSHIK, US

[72] CHEN, SHENGBO, US

[72] WANG, XIAO FENG, US

[73] QUALCOMM INCORPORATED, US

[86] (3167330)

[87] (3167330)

[22] 2018-06-22

[62] 3,064,289

[30] US (62/527,016) 2017-06-29

[30] US (16/014,689) 2018-06-21

[11] **3,169,290**
[13] C

[51] **Int.Cl. A61M 1/34 (2006.01) A61M 60/113 (2021.01) A61M 60/50 (2021.01) A61M 1/16 (2006.01) A61M 1/36 (2006.01)**

[25] EN

[54] **WEARABLE HEMOFILTRATION ARTIFICIAL KIDNEY**

[54] **REIN ARTIFICIEL D'HEMOFILTRATION PORTATIF**

[72] CAMPBELL, GORDON JOHN, CA

[72] LINDSAY, ROBERT MCGREGOR, CA

[72] TREESH, SALEM, CA

[72] HUANG, SHIH HAN, CA

[72] RUPAR, CHARLES ANTHONY, CA

[72] BARBEITO, ROBERT GONZALES, CA

[73] VOLUTROL INC., CA

[86] (3169290)

[87] (3169290)

[22] 2021-12-14

[62] 3,155,974

[30] US (63/128,725) 2020-12-21

[30] WO (PCT/CA/050274) 2021-03-02

[11] **3,169,912**
[13] C

[51] **Int.Cl. E21B 7/08 (2006.01) E21B 7/06 (2006.01) E21B 21/10 (2006.01) E21B 34/06 (2006.01)**

[25] EN

[54] **STEERING SYSTEM FOR USE WITH A DRILL STRING**

[54] **SYSTEME D'ORIENTATION DESTINE A ETRE UTILISE AVEC UN TRAIN DE TIGES DE FORAGE**

[72] CHAMBERS, LARRY DELYNN, US

[72] DEOLALIKAR, NEELESH V., US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[86] (3169912)

[87] (3169912)

[22] 2018-02-02

[62] 3,083,348

[30] US (62/612,168) 2017-12-29

[11] **3,171,644**
[13] C

[51] **Int.Cl. A01K 67/033 (2006.01) A23K 10/30 (2016.01) A23K 50/90 (2016.01)**

[25] EN

[54] **METHOD FOR PRECISE INDOOR MASS REARING OF THE RICE STRIPED STEM BORER [CHILO SUPPRESSALIS (WALKER)] ON RICE SEEDLINGS**

[54] **METHODE D'ELEVAGE DE MASSE INTERIEUR PRECIS DU PERCEUR ASIATIQUE DU RIZ [CHILO SUPPRESSALIS (WALKER)] SUR LES SEMIS DE RIZ**

[72] XU, LU, CN

[72] ZHAO, JUN, CN

[72] LIU, BAOSHENG, CN

[72] ZHAO, CHUNQING, CN

[72] XU, DEJIN, CN

[72] XU, GUANGCHUN, CN

[72] HAN, ZHAOJUN, CN

[73] JIANGSU ACADEMY OF AGRICULTURAL SCIENCES, CN

[85] 2022-08-29

[86] 2022-06-02 (PCT/CN2022/096860)

[87] (3171644)

[30] CN (202111486141.5) 2021-12-07

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[11] **3,172,033**
[13] C

[51] **Int.Cl. A23C 3/03 (2006.01) A23L 3/015 (2006.01) A23L 3/16 (2006.01)**

[25] EN

[54] **PRESSURE VESSEL TEMPERATURE CONTROL FOR BULK PROCESSING IN HIGH PRESSURE APPLICATION**

[54] **REGULATION DE TEMPERATURE DE RECIPIENT A PRESSION POUR TRAITEMENT EN VRAC DANS UNE APPLICATION A HAUTE PRESSION**

[72] MALMBERG, KARL MAGNUS, US

[72] VIBERG, JAN OLOF, US

[72] FULLENKAMP, ALAN C., US

[72] MORRISON, CHRISTOPHER ROBIN, US

[73] AVURE TECHNOLOGIES INCORPORATED, US

[85] 2022-08-17

[86] 2021-03-24 (PCT/US2021/023977)

[87] (WO2021/195276)

[30] US (63/001,113) 2020-03-27

[30] US (63/006,550) 2020-04-07

[11] **3,172,200**
[13] C

[51] **Int.Cl. C23C 24/08 (2006.01) C04B 28/26 (2006.01) C04B 28/34 (2006.01) C09D 1/02 (2006.01)**

[25] EN

[54] **CHROMATE-FREE CERAMIC COMPOSITIONS WITH REDUCED CURING TEMPERATURE**

[54] **COMPOSITIONS DE CERAMIQUE SANS CHROMATE AYANT UNE TEMPERATURE DE DURCISSEMENT REDUITE**

[72] BELOV, IRINA, US

[72] LEWIS, THOMAS F., US

[73] PRAXAIR S.T. TECHNOLOGY, INC., US

[85] 2022-09-16

[86] 2021-03-22 (PCT/US2021/023455)

[87] (WO2021/202142)

[30] US (16/834,728) 2020-03-30

[11] **3,172,268**
[13] C

[51] **Int.Cl. A63B 21/00 (2006.01) A63B 21/005 (2006.01) A63B 24/00 (2006.01) A63B 71/00 (2006.01)**

[25] EN

[54] **DYNAMIC MOTION RESISTANCE MODULE**

[54] **MODULE DE RESISTANCE AU MOUVEMENT DYNAMIQUE**

[72] HENDRICKS, SHAWN, US

[72] TONER, CHRISTOPHER M., US

[73] DYNAMIC ACCESSION LLC, US

[85] 2022-09-19

[86] 2021-04-21 (PCT/US2021/028372)

[87] (WO2021/216690)

[30] US (63/014,191) 2020-04-23

[11] **3,172,692**
[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61P 25/18 (2006.01) C07D 243/04 (2006.01) C07D 243/10 (2006.01) C07D 401/06 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **1,5-DIHYDRO-2,4-BENZODIAZEPINE-3-ONE DERIVATIVE AND APPLICATION THEREOF**

[54] **DERIVE DE 1,5-DIHYDRO-2,4-BENZODIAZEPINE-3-ONE ET SON UTILISATION**

[72] XU, XIANGQING, CN

[72] QIU, YINLI, CN

[72] GUO, QIANG, CN

[72] YU, MINQUAN, CN

[72] ZHAO, SONG, CN

[72] LI, QUXIANG, CN

[72] JING, PENG, CN

[72] HOU, YUANYUAN, CN

[72] DONG, YINGYING, CN

[72] WU, GUOSHENG, CN

[72] ZHANG, SHUANG, CN

[72] LU, AIJUN, CN

[73] JIANGSU NHWA PHARMACEUTICAL CO., LTD, CN

[85] 2022-09-21

[86] 2021-04-25 (PCT/CN2021/089660)

[87] (WO2021/218863)

[30] CN (202010330893.1) 2020-04-26

[30] CN (202110288141.8) 2021-03-17

[11] **3,173,030**
[13] C

[51] **Int.Cl. A61K 31/675 (2006.01) A61K 36/07 (2006.01) A61P 25/00 (2006.01) B01D 11/02 (2006.01)**

[25] EN

[54] **PREDOMINANTLY PHOSPHORYLATED PSYCHOACTIVE ALKALOID EXTRACTION USING ALKALI**

[54] **EXTRACTION D'ALCALOIDE PSYCHOACTIF PRINCIPALEMENT PHOSPHORYLE AU MOYEN D'ALCALI**

[72] LIGHTBURN, BENJAMIN, CA

[72] MOSS, RYAN, CA

[72] RANKEN, LISA, CA

[73] PSILO SCIENTIFIC LTD., CA

[73] PSILO SCIENTIFIC LTD., CA

[86] (3173030)

[87] (3173030)

[22] 2021-06-14

[62] 3,169,140

[30] US (63/040,317) 2020-06-17

[30] US (63/046,089) 2020-06-30

[30] CA (3089455) 2020-08-07

[30] CA (3088384) 2020-09-27

[30] CA (3097246) 2020-10-23

[30] CA (3101765) 2020-12-04

[30] CA (3103707) 2020-12-18

[11] **3,175,835**
[13] C

[51] **Int.Cl. B01D 43/00 (2006.01) B01D 3/06 (2006.01) C10G 1/04 (2006.01) C10G 53/04 (2006.01)**

[25] EN

[54] **REPAIR SLEEVE FOR TSRU SHED DECK AND METHODS OF WEAR PROTECTION**

[54] **MANCHON DE REPARATION POUR UN PLATEAU A REDANS D'UNE UNITE DE RECUPERATION DE SOLVANT ET METHODES DE PROTECTION CONTRE L'USURE**

[72] GUPTA, SIDDHARTH, CA

[72] JIANG, FAN, CA

[72] SERATE, DUANE, CA

[72] VAN DER MERWE, SHAWN, CA

[72] LUESICK, JEFF, CA

[72] VAN DONGEN, GRAEME, CA

[73] FORT HILLS ENERGY L.P., CA

[86] (3175835)

[87] (3175835)

[22] 2022-09-23

[30] CA (3,139,213) 2021-11-16

**Canadian Patents Issued
May 14, 2024**

[11] **3,175,959**
[13] C

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/42 (2020.01) A24F 40/50 (2020.01) A24F 40/46 (2020.01)**

[25] EN

[54] **AEROSOL GENERATION METHOD AND APPARATUS**

[54] **PROCEDE ET APPAREIL DE GENERATION D'AEROSOL**

[72] HAN, JUNG HO, KR

[72] LEE, JANG UK, KR

[72] LIM, HUN II, KR

[72] LEE, JONG SUB, KR

[72] HAN, DAE NAM, KR

[72] YOON, JIN YOUNG, KR

[72] KIM, YOUNG LEA, KR

[72] JANG, JI SOO, KR

[72] LIM, WANG SEOP, KR

[72] LEE, MOON BONG, KR

[72] JU, SOUNG HO, KR

[72] PARK, DU JIN, KR

[72] YOON, SEONG WON, KR

[73] KT&G CORPORATION, KR

[86] (3175959)

[87] (3175959)

[22] 2017-11-06

[62] 3,047,236

[30] KR (10-2017-0101343) 2017-08-09

[30] KR (10-2016-0172889) 2016-12-16

[30] KR (10-2017-0046938) 2017-04-11

[30] KR (10-2017-0055756) 2017-04-28

[30] KR (10-2017-0068665) 2017-06-01

[30] KR (10-2017-0077586) 2017-06-19

[30] KR (10-2017-0100888) 2017-08-09

[30] KR (10-2017-0101350) 2017-08-09

[30] KR (10-2017-0101348) 2017-08-09

[30] KR (10-2017-0113954) 2017-09-06

[30] KR (10-2017-0146623) 2017-11-06

[11] **3,177,502**
[13] C

[51] **Int.Cl. B65D 1/16 (2006.01) B65D 1/02 (2006.01) B65D 1/10 (2006.01) B65D 1/44 (2006.01)**

[25] EN

[54] **CONTAINER AND METHOD OF MANUFACTURING THE SAME**

[54] **RECIPIENT ET SON PROCEDE DE FABRICATION**

[72] MANDERFIELD, GROVER, US

[72] PALMER, JOE, US

[72] HERNANDEZ, DAVID, US

[72] WADE, DENA, US

[72] APPELEGATE, DANIEL, US

[72] BOLLINGER, AARON, US

[73] ALTIUM PACKAGING LP, US

[86] (3177502)

[87] (3177502)

[22] 2020-01-14

[62] 3,117,896

[30] US (16/252,082) 2019-01-18

[11] **3,178,196**
[13] C

[51] **Int.Cl. G06Q 50/10 (2012.01) G06Q 10/30 (2023.01) G01R 31/00 (2006.01) G07F 7/00 (2006.01) G07F 17/00 (2006.01) G01N 21/95 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR RECYCLING MOBILE PHONES**

[54] **APPAREIL ET PROCEDE PERMETTANT LE RECYCLAGE DE TELEPHONES MOBILES**

[72] BOWLES, MARK, US

[72] LIBRIZZI, MICHAEL, US

[72] VAN ROOYEN, PIETER, US

[72] DUBEN, AHRON, US

[73] ECOATM, LLC, US

[86] (3178196)

[87] (3178196)

[22] 2011-03-13

[62] 3,039,716

[30] US (12/727624) 2010-03-19

[30] US (12/785465) 2010-05-23

[11] **3,179,000**
[13] C

[51] **Int.Cl. C08H 1/06 (2006.01) C08L 89/06 (2006.01)**

[25] EN

[54] **LOW ENDOTOXIN GELATIN-(METH)ACRYLOYL**

[54] **GELATINE-(METH)ACRYLOYLE A FAIBLE TENEUR EN ENDOTOXINES**

[72] VERGAUWEN, BJORN, BE

[72] DE CLERCK, ELKE, BE

[73] ROUSSELOT BV, BE

[85] 2022-11-15

[86] 2021-05-19 (PCT/EP2021/063257)

[87] (WO2021/233981)

[30] BE (BE2020/5347) 2020-05-19

[11] **3,181,281**
[13] C

[51] **Int.Cl. E21B 7/06 (2006.01)**

[25] EN

[54] **SIDETRACK ASSEMBLY WITH REPLACEMENT MILL HEAD FOR OPEN HOLE WHIPSTOCK**

[54] **ENSEMBLE DE DEVIATION A TETE DE FRAISE DE REMPLACEMENT POUR SIFFLET DEVIATEUR A TROU OUVERT**

[72] DAVIS, RICHARD C., US

[72] STONE, JEREMY LEE, US

[72] TAYLOR, JAMES H. JR., US

[72] SCHULTZ, WILLIAM ALLEN JR., US

[72] TEALE, DAVID W., US

[73] WEATHERFORD TECHNOLOGY HOLDINGS LLC, US

[85] 2022-12-02

[86] 2021-03-05 (PCT/US2021/021130)

[87] (WO2021/247112)

[30] US (16/894,577) 2020-06-05

[11] **3,186,310**
[13] C

[51] **Int.Cl. B27B 25/04 (2006.01) B27B 31/06 (2006.01) B65G 47/14 (2006.01)**

[25] EN

[54] **LUMBER UNSCRAMBLER AND METHOD OF USING THE UNSCRAMBLER**

[54] **ALIGNEUR DE BOIS D'OEUVRE ET METHODE D'UTILISATION**

[72] TINSLEY, DOUGLAS MONROE, US

[72] ANDERSON, JAMES L., US

[73] AD SERVICES OF ARKANSAS, INC., US

[86] (3186310)

[87] (3186310)

[22] 2023-01-13

[30] US (17/887,683) 2022-08-15

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[11] **3,192,107**

[13] C

- [51] **Int.Cl. G05F 1/56 (2006.01)**
[25] EN
[54] **COMPUTING DEVICE AND SERIES POWER SUPPLY METHOD**
[54] **DISPOSITIF INFORMATIQUE ET PROCEDE D'ALIMENTATION EN SERIE**
[72] GAO, YANG, CN
[72] WU, YUEFENG, CN
[72] YANG, ZUOXING, CN
[72] NING, HONGYAN, CN
[72] GUO, HAIFENG, CN
[73] SHENZHEN MICROBT ELECTRONICS TECHNOLOGY CO., LTD., CN
[85] 2023-03-08
[86] 2022-01-10 (PCT/CN2022/071021)
[87] (WO2022/213692)
[30] CN (202110372151.X) 2021-04-07

[11] **3,194,530**

[13] C

- [51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B32B 27/34 (2006.01) B32B 33/00 (2006.01) B32B 37/00 (2006.01) B65D 65/40 (2006.01)**
[25] EN
[54] **BARRIER LAMINATE AND IMPLEMENTATIONS THEREOF**
[54] **STRATIFIE BARRIERE ET SES MISES EN OEUVRE**
[72] POZHAL VENGU, GURUNATH, IN
[72] NAIR, HARIHARAN KRISHNAN, IN
[73] NAIR, HARIHARAN KRISHNAN, IN
[85] 2023-03-31
[86] 2021-10-01 (PCT/IN2021/050952)
[87] (WO2022/070214)
[30] IN (202021042871) 2020-10-01

[11] **3,201,615**

[13] C

- [51] **Int.Cl. G02F 1/01 (2006.01)**
[25] EN
[54] **HEAT DISSIPATION IN AN OPTICAL DEVICE**
[54] **DISSIPATION DE CHALEUR DANS UN DISPOSITIF OPTIQUE**
[72] FERRARA, JR. JAMES, US
[72] LIN, SEN, US
[73] AURORA OPERATIONS, INC., US
[85] 2023-06-07
[86] 2021-12-07 (PCT/US2021/062236)
[87] (WO2022/125565)
[30] US (63/122,146) 2020-12-07
[30] US (17/542,459) 2021-12-05

[11] **3,201,972**

[13] C

- [51] **Int.Cl. A61B 18/24 (2006.01) A61B 18/26 (2006.01) A61M 25/10 (2013.01)**
[25] EN
[54] **OPTICAL EMITTER HOUSING ASSEMBLY FOR INTRAVASCULAR LITHOTRIPSY DEVICE**
[54] **ASSEMBLAGE DE LOGEMENT D'EMETTEUR DE LUMIERE POUR UN DISPOSITIF DE LITHOTRITIE INTRAVASCULAIRE**
[72] SCHULTHEIS, ERIC, US
[72] SALINAS, ALVIN, US
[72] DUONG, ALAN, US
[73] BOLT MEDICAL, INC., US
[85] 2023-06-05
[86] 2022-10-25 (PCT/US2022/047751)
[87] (3201972)
[30] US (63/289,294) 2021-12-14
[30] US (63/335,131) 2022-04-26
[30] US (17/970,363) 2022-10-20

[11] **3,203,555**

[13] C

- [51] **Int.Cl. B01J 21/04 (2006.01) B01J 37/02 (2006.01) B01J 37/04 (2006.01) B01J 37/08 (2006.01)**
[25] EN
[54] **CERAMIC ARTICLE AND METHODS OF MAKING THE SAME**
[54] **ARTICLE EN CERAMIQUE ET SES PROCEDES DE FABRICATION**
[72] THOMPSON, MATTHEW J., US
[72] SZYMANSKI, THOMAS, US
[72] YEATES, RANDALL CLAYTON, US
[72] RALPH, JAMES M., US
[73] SAINT-GOBAIN CERAMICS & PLASTICS, INC., US
[85] 2023-06-27
[86] 2021-12-17 (PCT/US2021/073005)
[87] (WO2022/147407)
[30] US (63/199,441) 2020-12-29

[11] **3,209,067**

[13] C

- [51] **Int.Cl. A23L 17/60 (2016.01)**
[25] EN
[54] **SEAWEED EXTRACT**
[54] **EXTRAIT D'ALGUES**
[72] RUBESA, TINO, NL
[72] CHAN, KOK-KIN, NL
[72] VERMANDEL, EVERT, NL
[72] MATTHEE, JOHANNES MARIA BAPTIST, NL
[72] ZANTINGE, ANNE, NL
[73] UNILEVER IP HOLDINGS B.V., NL
[85] 2023-08-18
[86] 2022-02-17 (PCT/EP2022/053867)
[87] (WO2022/175354)
[30] EP (21158186.3) 2021-02-19

[11] **3,210,210**

[13] C

- [51] **Int.Cl. A43B 13/38 (2006.01) A43B 13/12 (2006.01) A43B 13/14 (2006.01) A43B 17/00 (2006.01)**
[25] EN
[54] **AUXILIARY OR INTEGRATED INNER SOLE STRUCTURE FOR FOOTWEAR**
[54] **STRUCTURE DE SEMELLE INTERIEURE AUXILIAIRE OU INTEGREE POUR ARTICLE CHAUSSANT**
[72] CORMIER, MARC, CA
[73] CORMIER, MARC, CA
[86] (3210210)
[87] (3210210)
[22] 2022-12-30
[62] 3,209,671
[30] US (63/295,568) 2021-12-31
[30] US (63/295,572) 2021-12-31

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May 14, 2024**

[11] **3,211,556**
[13] C

[51] **Int.Cl. C22B 3/08 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01) H01M 10/54 (2006.01) C22B 23/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING NICKEL SULFATE SOLUTION FOR SECONDARY BATTERY FROM NICKEL CATHODE**

[54] **METHODE DE PRODUCTION D'UNE SOLUTION DE SULFATE DE NICKEL POUR UNE BATTERIE SECONDAIRE A PARTIR D'UNE CATHODE DE NICKEL**

[72] JOO, JAE HOON, KR
[72] CHOI, HEON SIK, KR
[72] LEE, TAE KYUNG, KR
[73] KEMCO, KR
[73] KOREA ZINC CO., LTD., KR
[85] 2023-09-08
[86] 2023-03-31 (PCT/KR2023/004406)
[87] (3211556)
[30] KR (10-2023-0004092) 2023-01-11

[11] **3,216,609**
[13] C

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6869 (2018.01) C12N 15/10 (2006.01) C12Q 1/68 (2018.01) C40B 70/00 (2006.01)**

[25] EN

[54] **MICROCAPSULE COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS DE MICROCAPSULE ET PROCEDES**

[72] HINDSON, BENJAMIN, US
[72] SAXONOV, SERGE, US
[73] 10X GENOMICS, INC., US
[86] (3216609)
[87] (3216609)
[22] 2013-08-13
[62] 2,881,685
[30] US (61/683,192) 2012-08-14
[30] US (61/737,374) 2012-12-14
[30] US (61/762,435) 2013-02-08
[30] US (61/800,223) 2013-03-15
[30] US (61/840,403) 2013-06-27
[30] US (61/844,804) 2013-07-10

[11] **3,217,859**
[13] C

[51] **Int.Cl. H01B 11/00 (2006.01) B65H 54/00 (2006.01) B65H 75/00 (2006.01) H01B 1/20 (2006.01) H01B 7/00 (2006.01)**

[25] EN

[54] **MAGNETIC DATA CABLE**

[54] **CABLE DE DONNEES MAGNETIQUES**

[72] YUE, WENYONG, CN
[73] FAN GAO LE TRADE (SHENZHEN) CO., LTD., CN
[86] (3217859)
[87] (3217859)
[22] 2023-10-26
[30] CN (202310377554.2) 2023-04-11

[11] **3,221,752**
[13] C

[51] **Int.Cl. H01R 13/58 (2006.01) H01R 13/514 (2006.01) H01R 13/631 (2006.01) H01R 13/518 (2006.01) H01R 13/585 (2006.01)**

[25] EN

[54] **CIRCULAR MODULAR PLUGGABLE CONNECTOR**

[54] **CONNECTEUR ENFICHABLE MODULAIRE CIRCULAIRE**

[72] BARBEY, JEAN-PHILIPPE, CH
[73] LEMO SA, CH
[85] 2023-11-27
[86] 2022-05-17 (PCT/EP2022/063357)
[87] (WO2022/248291)
[30] EP (21176036.8) 2021-05-26

[11] **3,224,654**
[13] C

[51] **Int.Cl. F24S 23/70 (2018.01) F24S 20/61 (2018.01) F24S 30/425 (2018.01) F24S 50/80 (2018.01)**

[25] EN

[54] **SYSTEM FOR MODERATING ENERGY ABSORPTION AT THE EARTH'S SURFACE WITH A PROGRAMMABLE FORCING NETWORK OF CLIMATE CONTROL PANELS**

[54] **SYSTEME POUR LA MODERATION DE L'ABSORPTION D'ENERGIE A LA SURFACE DE LA TERRE AVEC UN RESEAU DE FORCAGE PROGRAMMABLE DE PANNEAUX DE REGULATION CLIMATIQUE**

[72] LAWRENCE, DOUGLAS, US
[73] LAWRENCE, DOUGLAS, US
[85] 2023-12-22
[86] 2022-08-25 (PCT/US2022/075433)
[87] (WO2023/034712)
[30] US (63/238,373) 2021-08-30

[11] **3,225,944**
[13] C

[51] **Int.Cl. B28C 5/48 (2006.01)**

[25] EN

[54] **ULTRASONIC GENERATION DEVICE AND CONCRETE FORMING SYSTEM**

[54] **DISPOSITIF DE GENERATION D'ULTRASONS ET SYSTEME DE FORMATION DE BETON**

[72] KOU, ZIMING, CN
[72] WU, JUAN, CN
[72] WANG, HULIN, CN
[72] REN, QICHAO, CN
[72] PENG, YANWEI, CN
[72] ZHANG, BUWEN, CN
[72] YAN, FENG, CN
[73] TAIYUAN UNIVERSITY OF TECHNOLOGY, CN
[73] SHANXI LINGXUDA TECHNOLOGY CO., LTD, CN
[85] 2024-01-15
[86] 2023-01-10 (PCT/CN2023/071614)
[87] (WO2023/216644)
[30] CN (202210505691.5) 2022-05-10

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[21] **3,180,307**
[13] A1
[51] **Int.Cl. G06Q 30/0645 (2023.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **TERMINAL AND USER INTERFACE METHODS FOR FACILITATING TRANSACTIONS**
[54] **TERMINAL ET METHODES D'INTERFACE UTILISATEUR POUR FACILITER LES TRANSACTIONS**
[72] COUTU, MICHEL, CA
[71] ACESS CREDIT LEASING INC., CA
[22] 2022-10-28
[41] 2024-04-28

[21] **3,180,354**
[13] A1
[51] **Int.Cl. E21B 34/06 (2006.01)**
[25] EN
[54] **ELECTRICALLY ACTIVATED DOWNHOLE VALVE FOR DRILLING APPLICATIONS**
[54] **SOUPAPE DE FOND DE TROU A ACTIVATION ELECTRIQUE POUR DES APPLICATIONS DE FORAGE**
[72] RANDLE, HARTLEY, CA
[72] GAMBLE, JOSHUA, CA
[72] JULLION, BRANDON, CA
[71] DYNAMAX DRILLING TOOLS INC., CA
[22] 2022-10-28
[41] 2024-04-28

[21] **3,180,359**
[13] A1
[51] **Int.Cl. F03D 80/70 (2016.01) H02K 5/16 (2006.01) H02K 7/18 (2006.01)**
[25] EN
[54] **SEALED DUAL BEARING ENCLOSURE FOR A GENERATOR OF A VERTICAL AXIS WIND TURBINE**
[54] **ENCEINTE A DEUX PALIERS SCHELLEE POUR UNE GENERATRICE D-UNE EOLIENNE A AXE VERTICAL**
[72] MAYNARD, JUSTIN, CA
[72] DORGE, MAURICE, CA
[71] KYNETIC ENERGY SOLUTIONS INC., CA
[22] 2022-10-31
[41] 2024-04-30

[21] **3,180,367**
[13] A1
[51] **Int.Cl. F03D 80/70 (2016.01) F03D 9/25 (2016.01) F03D 13/20 (2016.01) F03D 3/00 (2006.01)**
[25] EN
[54] **A MILLION WATTS (MW)-LEVEL SUPER-HEAVY DUTY- VERTICAL AXIS WIND TURBINE**
[54] **EOLIENNE A AXE VERTICAL A TRES HAUT RENDEMENT POUR UN MILLION DE WATTS**
[72] WANG, LEI, CA
[71] WANG, LEI, CA
[22] 2022-10-31
[41] 2024-04-30

[21] **3,180,586**
[13] A1
[51] **Int.Cl. A63B 37/00 (2006.01) A63B 43/00 (2006.01)**
[25] EN
[54] **A LAWN BOWL**
[54] **BOULE DE BOULINGRIN**
[72] PAUL, ROBIN, AU
[72] WILLIAMS, GREGORY, AU
[72] JACOBS, WALTER, AU
[71] COMFITPRO (PTY) LTD, AU
[22] 2022-10-28
[41] 2024-04-28

[21] **3,180,596**
[13] A1
[51] **Int.Cl. E21B 17/10 (2006.01)**
[25] EN
[54] **DRILL RODS HAVING STABILIZERS, AND SYSTEMS AND METHODS COMPRISING SAME**
[54] **TIGES DE FORAGE COMPORTANT DES STABILISATEURS ET SYSTEMES ET METHODES LES COMPRENANT**
[72] DRENTH, CHRISTOPHER, CA
[72] BRUBACHER, ADRIAN, CA
[71] LONGYEAR TM, INC., US
[22] 2022-11-01
[41] 2024-05-01

[21] **3,180,611**
[13] A1
[51] **Int.Cl. B64C 25/54 (2006.01) B63H 11/107 (2006.01) B63H 25/46 (2006.01)**
[25] EN
[54] **SEAPLANE FLOAT PROPULSION SYSTEM**
[54] **SYSTEME DE PROPULSION DE FLOTTEUR D-HYDRAVION**
[72] AMERL, ZRINKO, CA
[71] AMERL, ZRINKO, CA
[22] 2022-11-01
[41] 2024-04-30
[30] US (18/051,118) 2022-10-31

[21] **3,180,626**
[13] A1
[51] **Int.Cl. A41D 27/00 (2006.01) A41D 1/06 (2006.01) A41D 1/14 (2006.01) A41D 27/12 (2006.01) A41H 43/02 (2006.01) A41H 43/04 (2006.01)**
[25] EN
[54] **CLOTHING WITH BUILT-IN JOINT SUPPORT**
[54] **VETEMENT A SUPPORT DE JOINT INTEGRE**
[72] RYAN, WANETA, CA
[71] RYAN, WANETA, CA
[22] 2022-11-01
[41] 2024-05-01

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[21] **3,180,629**
[13] A1

[51] **Int.Cl. C22B 7/00 (2006.01) B29B 17/00 (2006.01) C01G 5/00 (2006.01) C01G 7/00 (2006.01) C01G 55/00 (2006.01) C22B 11/06 (2006.01)**

[25] EN

[54] **A METHOD FOR PRECIOUS METALS RECOVERY FROM ELECTRONIC WASTES**

[54] **METHODE POUR LA RECUPERATION DES METAUX PRECIEUX DE DECHETS ELECTRONIQUES**

[72] MAGNAN, JEAN-FRANCOIS, CA

[72] LALANCETTE, JEAN-MARC, CA

[72] LEMIEUX, DAVID, CA

[72] ISABELLE, JOEY, CA

[71] DUNDEE SUSTAINABLE TECHNOLOGIES INC., CA

[22] 2022-11-01

[41] 2024-05-01

[21] **3,180,778**
[13] A1

[51] **Int.Cl. F01K 25/00 (2006.01) F15B 1/02 (2006.01)**

[25] EN

[54] **POWER SYSTEM**

[54] **SYSTEME D'ALIMENTATION**

[72] SIMMONS, DANIEL, CA

[72] SIMMONS, NATHAN, CA

[72] SIMMONS, JORDAN, CA

[71] FOREFRONT ENERGY LTD., CA

[22] 2022-10-28

[41] 2024-04-28

[21] **3,180,962**
[13] A1

[51] **Int.Cl. A47B 88/975 (2017.01) A47B 47/00 (2006.01) A47B 87/02 (2006.01) A47F 1/00 (2006.01) A47F 1/14 (2006.01) A47F 11/00 (2006.01)**

[25] EN

[54] **MODULAR DISPLAY AND DISPENSING SYSTEM**

[54] **SYSTEME DE PRESENTATION ET DE DISTRIBUTION MODULAIRE**

[72] LUBERTO, MICHAEL D., US

[72] DESENA, MICHAEL D., US

[72] KASSA, GETACHEW, US

[71] HENSCHERL-STEINAU, INC., US

[22] 2022-11-04

[41] 2024-05-04

[21] **3,181,010**
[13] A1

[51] **Int.Cl. B60L 53/12 (2019.01) B60L 53/122 (2019.01)**

[25] FR

[54] **WIRELESS RECHARGING PROCESS FOR ELECTRIC VEHICLES**

[54] **PROCEDE DE RECHARGE SANS FIL POUR VEHICULES ELECTRIQUES**

[72] GAGNON, STEEVEN, CA

[71] GAGNON, STEEVEN, CA

[22] 2022-11-03

[41] 2024-05-03

[21] **3,181,015**
[13] A1

[51] **Int.Cl. F03D 1/06 (2006.01) F03D 13/40 (2016.01) F03D 3/06 (2006.01)**

[25] FR

[54] **INFLATABLE WIND TURBINE BLADE**

[54] **UME PALE D'EOLIENNE GONFLABLE**

[72] GAGNON, STEEVEN, CA

[71] GAGNON, STEEVEN, CA

[22] 2022-11-03

[41] 2024-05-03

[30] CA (725100-5) 2022-11-03

[21] **3,181,276**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/369 (2021.01) A61B 5/055 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ASSESSING CAPACITY OF CONSCIOUSNESS**

[54] **SYSTEME ET METHODE D'EVALUATION DE LA CAPACITE DE CONSCIENCE**

[72] BLAIN-MORAES, STEFANIE, CA

[72] DUCLOS, CATHERINE, CA

[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA

[22] 2022-11-04

[41] 2024-05-04

[21] **3,181,277**
[13] A1

[51] **Int.Cl. G01F 15/00 (2006.01) G01F 15/063 (2022.01)**

[25] EN

[54] **WATER MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION D~EAU**

[72] VAN NIEKERK, JOHANN, CA

[72] BRUNET, SIMON, CA

[71] CONNECTED SENSORS LLC, CA

[22] 2022-11-04

[41] 2024-05-03

[30] US (18/052,346) 2022-11-03

[21] **3,181,305**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) G16H 50/30 (2018.01) G16H 50/70 (2018.01)**

[25] EN

[54] **METHODS AND KITS FOR PREDICTING THE PROBABILITY OF DEVELOPING CLINICALLY SIGNIFICANT PROSTATE CANCER**

[54] **METHODES ET TROUSSES POUR PREDIRE LA PROBABILITE DE DEVELOPPEMENT D'UN CANCER DE LA PROSTATE SIGNIFICATIF SUR LE PLAN CLINIQUE**

[72] LEWIS, JOHN, CA

[72] PAPROSKI, ROBERT, CA

[71] NANOSTICS INC., CA

[22] 2022-11-04

[41] 2024-05-04

[21] **3,181,323**
[13] A1

[51] **Int.Cl. E06B 9/38 (2006.01) E06B 9/303 (2006.01) E06B 9/32 (2006.01) E06B 9/322 (2006.01)**

[25] EN

[54] **SAFETY VENETIAN BLIND**

[54] **STORE VENITIEN DE SECURITE**

[72] HUANG, SZU-CHANG, TW

[71] TAICANG KINGFU PLASTIC MANUFACTURE CO., LTD, CN

[71] BEAUTIFUL WINDOW FASHIONS CO., LTD., TW

[22] 2022-11-02

[41] 2024-05-02

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[21] **3,181,326**

[13] A1

[51] **Int.Cl. C09D 175/04 (2006.01) C09D 7/61 (2018.01) B05D 1/38 (2006.01) C09D 191/06 (2006.01) C08G 18/24 (2006.01) C08G 18/79 (2006.01)**

[25] EN

[54] **SPRAYABLE TEXTURE COATING COMPOSITIONS AND METHODS OF APPLICATION**

[54] **COMPOSITIONS DE REVETEMENT TEXTURE VAPORISABLE ET METHODES D'APPLICATION**

[72] MITCHELL, SANFORD, US

[72] SOLOMON, NICHOLAS, US

[72] CAUCHI, BRIAN, US

[72] LATHIA, NIRALI, US

[72] SEAVER, TODD, US

[71] TRANSTAR AUTOBODY TECHNOLOGIES LLC, US

[22] 2022-11-01

[41] 2024-05-01

[21] **3,182,177**

[13] A1

[51] **Int.Cl. H02G 3/08 (2006.01) H02B 1/04 (2006.01) H02G 3/18 (2006.01) H02G 3/30 (2006.01)**

[25] EN

[54] **POWER INLET BOX WITH CIRCUIT PROTECTION**

[54] **BOITIER D'ENTREE DE PUISSANCE A PROTECTION DES CIRCUITS**

[72] CZARNECKI, NEIL A., US

[72] KELL, CURTIS N., US

[72] FLEGEL, BENJAMIN F., US

[71] RELIANCE CONTROLS CORPORATION, US

[22] 2022-11-17

[41] 2024-05-01

[30] US (17/978,663) 2022-11-01

[21] **3,186,174**

[13] A1

[51] **Int.Cl. H01R 13/6466 (2011.01) H04L 69/00 (2022.01) H01B 11/02 (2006.01) H04L 12/00 (2006.01) H05K 1/16 (2006.01) H05K 1/18 (2006.01)**

[25] EN

[54] **DESIGN METHOD OF CAT 6A RETURN LOSS STANDARD DEVICE**

[54] **METHODE DE CONCEPTION D'UN DISPOSITIF NORMAL D'AFFAIBLISSEMENT DE REFLEXION CAT6A**

[72] ZHOU, XIN, CN

[72] WU, TONG, CN

[72] SHEN, QINGFEI, CN

[72] YAO, YAO, CN

[71] NATIONAL INSTITUTE OF METROLOGY, CHINA, CN

[22] 2023-01-12

[41] 2024-04-28

[30] CN (202211337577.2) 2022-10-28

[21] **3,181,422**

[13] A1

[51] **Int.Cl. H99Z 99/00 (2006.01) H01R 24/60 (2011.01) A41D 13/005 (2006.01) H01R 13/52 (2006.01) H02J 7/00 (2006.01) H05B 1/02 (2006.01) H05B 3/36 (2006.01) H05K 1/02 (2006.01)**

[25] EN

[54] **CONTROL DEVICE WITH ACCESSIBLE SYMMETRICAL INPUT CONNECTOR**

[54] **DISPOSITIF DE COMMANDE COMPRENANT UN CONNECTEUR D'ENTREE SYMETRIQUE ACCESSIBLE**

[72] DESMEULES, ALAIN, CA

[71] DESANTIS, BROOKE ERIN, CA

[22] 2022-11-02

[41] 2024-05-02

[21] **3,182,770**

[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01) A61B 34/00 (2016.01) A61B 34/10 (2016.01) A61B 34/20 (2016.01) A61B 5/00 (2006.01) G06T 3/20 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR OVERLAYING A HOLOGRAM ONTO AN OBJECT**

[54] **SYSTEME ET METHODE POUR HOLOGRAMMER UN OBJET**

[72] PAUL, SWAJAN, CA

[72] ARNAERT, ANTONIA, CA

[72] DEBE, ZOUMANAN, CA

[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY, CA

[22] 2022-11-25

[41] 2024-04-28

[30] US (63/381,432) 2022-10-28

[21] **3,188,999**

[13] A1

[51] **Int.Cl. D05B 91/06 (2006.01) B68G 15/00 (2006.01)**

[25] EN

[54] **MOBILE AND HEIGHT-ADJUSTABLE STAND FOR MAKING QUILTS OR ALIKE**

[54] **SUPPORT MOBILE ET A HAUTEUR AJUSTABLE POUR LA FABRICATION DE COURTEPOINTES ET D'ELEMENTS SEMBLABLES**

[72] GHOSH, SAREE, CA

[71] GHOSH, SAREE, CA

[22] 2023-02-08

[41] 2024-04-28

[30] US (63/420488) 2022-10-28

[21] **3,181,441**

[13] A1

[51] **Int.Cl. B63H 19/00 (2006.01)**

[25] EN

[54] **VIAREA III**

[54] **VIAREA III**

[72] WOODS, TIMOTHY J., CA

[71] WOODS, TIMOTHY J., CA

[22] 2022-11-02

[41] 2024-05-02

[21] **3,197,984**

[13] A1

[51] **Int.Cl. B65F 1/14 (2006.01) B65F 1/08 (2006.01)**

[25] EN

[54] **GARBAGE BIN**

[54] **BAC A ORDURES**

[72] WANG, YANG, CN

[72] YU, XUELIANG, CN

[72] YAN, WENKAI, CN

[71] SHENZHEN AIPER INTELLIGENT CO., LTD., CN

[22] 2023-04-26

[41] 2024-04-28

[30] CN (202222870931X) 2022-10-28

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[21] **3,198,126**
[13] A1

[51] **Int.Cl. B63H 25/52 (2006.01) B63B 34/10 (2020.01) B63H 25/02 (2006.01)**
[25] EN
[54] **PERSONAL WATERCRAFT WITH STEERING DAMPER**
[54] **EMBARCATION PERSONNELLE COMPRENANT UN AMORTISSEUR DE DIRECTION**
[72] LAFLAMME LUSSIER, KARL, CA
[72] GENDRON, JEAN-PHILIPPE, CA
[72] LAROSE, BENOIT, CA
[72] BITSCH, MAGALI, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2023-04-28
[41] 2024-04-30
[30] US (63/420,948) 2022-10-31

[21] **3,198,492**
[13] A1

[51] **Int.Cl. E05B 65/00 (2006.01) A47J 43/07 (2006.01) E05B 43/00 (2006.01) E05B 47/00 (2006.01)**
[25] EN
[54] **LOCKING MECHANISM AND METHOD FOR CONTROLLING FOOD PROCESSOR**
[54] **MECANISME DE VERROUILLAGE ET METHODE POUR CONTROLER UN ROBOT CULINAIRE**
[72] DING, JIEMING, CN
[71] PANASONIC APPLIANCES MICROWAVE OVEN(SHANGHAI) CHINA CO., LTD., CN
[22] 2023-05-02
[41] 2024-04-30
[30] CN (202211350629.X) 2022-10-31

[21] **3,198,620**
[13] A1

[51] **Int.Cl. A63B 21/02 (2006.01) A63B 21/16 (2006.01) A63B 23/035 (2006.01)**
[25] EN
[54] **CROSSBAR FUNCTIONAL TRAINER**
[54] **ENTRAINEUR FONCTIONNEL A LA BARRE TRANSVERSALE**
[72] KELLY, FRANCIS, CA
[71] KELLY, FRANCIS, CA
[22] 2022-11-04
[41] 2024-05-04

[21] **3,201,027**
[13] A1

[51] **Int.Cl. B25B 13/02 (2006.01) B25B 13/56 (2006.01)**
[25] EN
[54] **HAND TOOL AND METHOD FOR MANUFACTURING THE SAME**
[54] **OUTIL A MAIN ET METHODE DE FABRICATION**
[72] CHEN, TZU-CHUN, TW
[72] CHEN, YUNG-SHUN, TW
[71] MING SHIN TOOLS CO., LTD., TW
[22] 2023-05-30
[41] 2024-05-02
[30] TW (111141840) 2022-11-02

[21] **3,203,349**
[13] A1

[51] **Int.Cl. G06F 9/46 (2006.01) G06F 16/23 (2019.01)**
[25] EN
[54] **STREAM-BASED TRANSACTION PROCESSING**
[54] **TRAITEMENT DE TRANSACTIONS EN FLUX**
[72] MAY, NORMAN, DE
[72] BANG, TIEMO, DE
[72] BINNIG, CARSTEN, DE
[71] SAP SE, DE
[22] 2023-06-14
[41] 2024-04-30
[30] US (18/051,404) 2022-10-31

[21] **3,206,402**
[13] A1

[51] **Int.Cl. E21B 23/04 (2006.01) E21B 23/08 (2006.01) E21B 47/18 (2012.01)**
[25] EN
[54] **INDEXING CONTROL SYSTEM**
[54] **SYSTEME DE CONTROLE DE DIVISION**
[72] RUSSELL, JAYSON, CA
[72] COMEAU, LAURIER E., CA
[72] SIBBALD, PAUL ALLAN, CA
[71] ARRIVAL ENERGY SOLUTIONS INC., CA
[22] 2023-07-12
[41] 2024-04-30
[30] US (18/051,277) 2022-10-31

[21] **3,206,415**
[13] A1

[51] **Int.Cl. G01F 22/02 (2006.01) A01C 23/00 (2006.01) G01F 17/00 (2006.01)**
[25] EN
[54] **A VOLUME DETERMINATION SYSTEM, A VEHICLE HAVING A VOLUME DETERMINATION SYSTEM, AND METHODS OF OPERATING SUCH A VEHICLE**
[54] **SYSTEME DE DETERMINATION DE VOLUME, VEHICULE COMPRENANT LE SYSTEME DE DETERMINATION DE VOLUME ET METHODES D~EXPLOITATION D~UN TEL VEHICULE**
[72] SMITH, EVAN THOMAS, US
[71] AGCO CORPORATION, US
[22] 2023-07-12
[41] 2024-04-30
[30] US (63/381,677) 2022-10-31

[21] **3,206,419**
[13] A1

[51] **Int.Cl. B60P 5/00 (2006.01) B60K 35/65 (2024.01)**
[25] EN
[54] **A VOLUME DETERMINATION SYSTEM, A VEHICLE HAVING A VOLUME DETERMINATION SYSTEM, AND METHODS OF OPERATING SUCH A VEHICLE**
[54] **SYSTEME DE DETERMINATION DE VOLUME, VEHICULE COMPRENANT LE SYSTEME DE DETERMINATION DE VOLUME ET METHODES D~EXPLOITATION D~UN TEL VEHICULE**
[72] SMITH, EVAN THOMAS, US
[72] RUNCK, MICHAEL J., US
[71] AGCO CORPORATION, US
[22] 2023-07-12
[41] 2024-04-30
[30] US (63/381,685) 2022-10-31

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[21] **3,206,426**

[13] A1

- [51] **Int.Cl. A01C 23/00 (2006.01) A01B 76/00 (2006.01)**
[25] EN
[54] **A VOLUME DETERMINATION SYSTEM, A VEHICLE HAVING A VOLUME DETERMINATION SYSTEM, AND METHODS OF OPERATING SUCH A VEHICLE**
[54] **SYSTEME DE DETERMINATION DE VOLUME, VEHICULE COMPRENANT LE SYSTEME DE DETERMINATION DE VOLUME ET METHODES D~EXPLOITATION D~UN TEL VEHICULE**
[72] SMITH, EVAN THOMAS, US
[72] RUNCK, MICHAEL J., US
[71] AGCO CORPORATION, US
[22] 2023-07-12
[41] 2024-04-30
[30] US (63/381,690) 2022-10-31

[21] **3,207,337**

[13] A1

- [51] **Int.Cl. G01F 1/00 (2022.01) G01M 3/00 (2006.01)**
[25] EN
[54] **WATER MONITORING SYSTEM FOR A BUILDING**
[54] **SYSTEME DE SURVEILLANCE D~EAU POUR UN BATIMENT**
[72] VAN NIEKERK, JOHANN, CA
[72] BRUNET, SIMON, CA
[71] CONNECTED SENSORS LLC, CA
[22] 2023-07-21
[41] 2024-05-03
[30] US (18/052,346) 2022-11-03
[30] US (18/354,725) 2023-07-19
[30] CA (3,181,277) 2022-11-04

[21] **3,208,328**

[13] A1

- [51] **Int.Cl. G06V 30/40 (2022.01) G06N 20/00 (2019.01) G06V 10/20 (2022.01) G06V 40/16 (2022.01) G06V 40/40 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING THE AUTHENTICITY OF AN IDENTITY DOCUMENT**
[54] **METHODES ET SYSTEMES POUR DETERMINER L~AUTHENTICITE D~UN DOCUMENT D~IDENTITE**
[72] MARKOVIC, ZORANA, RS
[71] DAON TECHNOLOGY, IE
[22] 2023-07-31
[41] 2024-04-30
[30] US (17/977,032) 2022-10-31

[21] **3,208,855**

[13] A1

- [51] **Int.Cl. G06F 17/00 (2019.01) G06F 21/62 (2013.01)**
[25] EN
[54] **INPUT VALIDATION USING MATHEMATICAL EXPRESSIONS**
[54] **VALIDATION D~ENTREE AU MOYEN D~EXPRESSIONS MATHEMATQUES**
[72] BERKOWITZ, YERUCHAM, US
[72] ZEINISS, EUGENE, US
[72] SHARON, DAN, US
[72] SHMIDOV, ELAD, US
[71] INTUIT INC., US
[22] 2023-08-10
[41] 2024-04-30
[30] US (17/978,193) 2022-10-31

[21] **3,209,801**

[13] A1

- [51] **Int.Cl. G06Q 10/0631 (2023.01) G06Q 50/10 (2012.01) G06N 20/00 (2019.01) G06Q 30/0601 (2023.01) G06Q 10/08 (2023.01)**
[25] EN
[54] **GENERATING A SUGGESTED SCHEDULE FOR A PICKER OF AN ONLINE CONCIERGE SYSTEM BASED ON AN EARNINGS GOAL AND AVAILABILITY INFORMATION**
[54] **GENERATION D~UN HORAIRE PROPOSE POUR UN PREPOSE A PRISE DE COMMANDES D~UN SYSTEME DE CONCIERGERIE EN LIGNE EN FONCTION D~UN OBJECTIF DE REVENUS ET DES RENSEIGNEMENTS DE DISPONIBILITE**
[72] KRISHNAN, GANESH, US
[72] XU, XIAOFAN, US
[72] RYAN, KEVIN, US
[71] MAPLEBEAR INC., US
[22] 2023-08-21
[41] 2024-04-30
[30] US (17/977,759) 2022-10-31

[21] **3,210,097**

[13] A1

- [51] **Int.Cl. G09B 9/08 (2006.01) G09B 9/16 (2006.01)**
[25] EN
[54] **METHOD, APPARATUS, AND COMPUTER-READABLE STORAGE MEDIUM FOR SIMULATING AN AERODYNAMIC EVENT ON AN AIRCRAFT DURING FLIGHT**
[54] **METHODE, APPAREIL ET SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR POUR SIMULER UN EVENEMENT AERODYNAMIQUE POUR UN AERONEF EN VOL**
[72] ZIMMERMANN, KELLY M., US
[72] WATSON, SIDNEY, US
[72] MOUNT, BERT, US
[72] SANTIAGO, LUIS-ALBERTO J., US
[72] LUO, JIA, US
[72] SHIKANY, DAVID A., US
[71] THE BOEING COMPANY, US
[22] 2023-08-24
[41] 2024-05-03
[30] US (17/980306) 2022-11-03

**Canadian Applications Open to Public Inspection
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[21] **3,210,308**
[13] A1

[51] **Int.Cl. A01B 69/00 (2006.01) A01D 41/127 (2006.01) A01D 43/06 (2006.01)**

[25] EN

[54] **MAP BASED FARMING FOR WINDROW MERGER OPERATION**

[54] **AGRICULTURE A BASE DE CARTE POUR L~EXPLOITATION D~UNE ANDAINEUSE A TAPIS**

[72] LOVETT, BENJAMIN M., US

[72] ROTH, DARIN L., US

[72] VANDIKE, NATHAN R., US

[71] DEERE & COMPANY, US

[22] 2023-08-28

[41] 2024-04-30

[30] US (18/051,384) 2022-10-31

[21] **3,210,322**
[13] A1

[51] **Int.Cl. A01D 41/127 (2006.01) A01D 43/06 (2006.01)**

[25] EN

[54] **MAP BASED FARMING FOR WINDROWER OPERATION**

[54] **AGRICULTURE A BASE DE CARTE POUR L~EXPLOITATION D~UNE ANDAINEUSE**

[72] LOVETT, BENJAMIN M., US

[72] ROTH, DARIN L., US

[72] VANDIKE, NATHAN R., US

[71] DEERE & COMPANY, US

[22] 2023-08-28

[41] 2024-04-30

[30] US (18/051,385) 2022-10-31

[21] **3,210,326**
[13] A1

[51] **Int.Cl. A01B 69/00 (2006.01) A01D 41/127 (2006.01) G01C 21/32 (2006.01)**

[25] EN

[54] **MAP BASED FARMING FOR WINDROWER OPERATION**

[54] **AGRICULTURE A BASE DE CARTE POUR L~EXPLOITATION D~UNE ANDAINEUSE**

[72] LOVETT, BENJAMIN M., US

[72] ROTH, DARIN L., US

[72] VANDIKE, NATHAN R., US

[71] DEERE & COMPANY, US

[22] 2023-08-28

[41] 2024-04-30

[30] US (18/051,335) 2022-10-31

[21] **3,210,523**
[13] A1

[51] **Int.Cl. G06Q 50/02 (2012.01) G06V 20/00 (2022.01) A01D 41/127 (2006.01) A01D 91/02 (2006.01)**

[25] EN

[54] **MAP BASED FARMING FOR WINDROWER OPERATION**

[54] **AGRICULTURE A BASE DE CARTE POUR L'EXPLOITATION D'UNE ANDAINEUSE**

[72] LOVETT, BENJAMIN M., US

[72] ROTH, DARIN L., US

[72] VANDIKE, NATHAN R., US

[71] DEERE & COMPANY, US

[22] 2023-08-30

[41] 2024-04-30

[30] US (18/051,363) 2022-10-31

[21] **3,211,019**
[13] A1

[51] **Int.Cl. B65B 69/00 (2006.01)**

[25] EN

[54] **DEVICE FOR REMOVING A STERILE OBJECT FROM AN OUTER PACKAGING, A SYSTEM COMPRISING A CORRESPONDING DEVICE, AND A METHOD FOR REMOVING A STERILE OBJECT FROM AN OUTER PACKAGING**

[54] **DISPOSITIF POUR RETIRER UN OBJET STERILE D'UN EMBALLAGE EXTERIEUR, SYSTEME COMPRENANT UN DISPOSITIF CORRESPONDANT ET METHODE POUR RETIRER UN OBJET STERILE D'UN EMBALLAGE EXTERIEUR**

[72] LEIDIG, JURGEN, DE

[72] WEBER, FLORIAN, DE

[72] EKKART, ALEXANDER, DE

[71] SYNTEGON TECHNOLOGY GMBH, DE

[22] 2023-08-31

[41] 2024-05-03

[30] DE (10 2022 129 107.3) 2022-11-03

[21] **3,211,175**
[13] A1

[51] **Int.Cl. G01B 9/02091 (2022.01) B23K 9/095 (2006.01) B23K 31/12 (2006.01)**

[25] EN

[54] **MEASURING DEVICE AND METHOD FOR PERFORMING MEASUREMENTS ON A WORKPIECE AS WELL AS MACHINING SYSTEM AND WELDING METHOD**

[54] **DISPOSITIF DE MESURE ET METHODE POUR REALISER DES MESURES D~UNE PIECE A USINER, SYSTEME D~USINAGE ET METHODE DE SOUDAGE**

[72] LESSMULLER, ECKHARD, DE

[72] TRUCKENBRODT, CHRISTIAN, DE

[71] LESSMULLER LASERTECHNIK GMBH, DE

[22] 2023-09-06

[41] 2024-05-04

[30] DE (10 2022 129 220.7) 2022-11-04

[21] **3,211,320**
[13] A1

[51] **Int.Cl. C09D 7/63 (2018.01) B60S 1/38 (2006.01) C09K 3/18 (2006.01)**

[25] EN

[54] **ABRASION RESISTANT COATING COMPOSITION FOR WINDSHIELD WIPER BLADE APPLICATION**

[54] **COMPOSITION DE REVETEMENT RESISTANT A L'ABRASION POUR L'APPLICATION A UNE LAME D'ESSUIE-GLACE**

[72] FANG, JIAFU, US

[71] ILLINOIS TOOL WORKS INC., US

[22] 2023-09-05

[41] 2024-04-28

[30] US (63/420,104) 2022-10-28

[30] US (18/234,445) 2023-08-16

Demandes canadiennes mises à la disponibilité du public
28 avril 2024 au 4 mai 2024

[21] **3,211,511**
 [13] A1

[51] **Int.Cl. E04H 17/14 (2006.01)**
 [25] EN
 [54] **DOUBLE PICKET SYSTEM AND METHOD**
 [54] **SYSTEME A DOUBLE POTEAU ET METHODE**
 [72] SCHNIDER, CHRISTOPHER
 MICHAEL, US
 [72] CLARK, CHRISTOPHER ROLLAND,
 US
 [72] BERTKE, PATRICK JOSEPH, US
 [71] BARRETTE OUTDOOR LIVING,
 INC., US
 [22] 2023-09-07
 [41] 2024-04-30
 [30] US (17/977,676) 2022-10-31

[21] **3,212,371**
 [13] A1

[51] **Int.Cl. G07C 5/00 (2006.01) G06F
 21/31 (2013.01) G06N 20/00 (2019.01)
 G06V 20/56 (2022.01) G06T 7/20
 (2017.01)**
 [25] EN
 [54] **ACCESS RESTRICTION OF
 VEHICLE-ASSOCIATED
 INFORMATION**
 [54] **RESTRICTION D'ACCES AUX
 RENSEIGNEMENTS ASSOCIES A
 UN VEHICULE**
 [72] BLAIS, PIERRE PIERRE, CA
 [71] BLACKBERRY LIMITED, CA
 [22] 2023-09-13
 [41] 2024-04-28
 [30] US (18/050,611) 2022-10-28

[21] **3,213,306**
 [13] A1

[51] **Int.Cl. A01D 41/127 (2006.01) A01B
 69/04 (2006.01) A01B 79/00 (2006.01)
 A01D 43/06 (2006.01)**
 [25] EN
 [54] **MAP BASED FARMING FOR
 WINDROWER OPERATION**
 [54] **AGRICULTURE A BASE DE
 CARTE POUR L~EXPLOITATION
 D~UNE ANDAINEUSE**
 [72] LOVETT, BENJAMIN M., US
 [72] ROTH, DARIN L., US
 [72] VANDIKE, NATHAN R., US
 [71] DEERE & COMPANY, US
 [22] 2023-09-20
 [41] 2024-04-30
 [30] US (18/051,332) 2022-10-31

[21] **3,211,534**
 [13] A1

[51] **Int.Cl. E06B 11/04 (2006.01) E04H
 17/14 (2006.01)**
 [25] EN
 [54] **RACKABLE GATE KIT**
 [54] **TROUSSE DE PORTE AJUSTEE
 SELON L~INCLINAISON DU SOL**
 [72] SCHNEIDER, CHRISTOPHER
 MICHAEL, US
 [72] MOORE, PAIGE BARBARA, US
 [72] BERTKE, PATRICK JOSEPH, US
 [72] CLARK, CHRISTOPHER ROLLAND,
 US
 [71] BARRETTE OUTDOOR LIVING,
 INC., US
 [22] 2023-09-07
 [41] 2024-04-30
 [30] US (17/978,196) 2022-10-31

[21] **3,212,431**
 [13] A1

[51] **Int.Cl. B64C 13/04 (2006.01) B64C
 13/24 (2006.01) B64C 25/44 (2006.01)**
 [25] EN
 [54] **PEDAL CARTRIDGE**
 [54] **CARTOUCHE DE PEDALE**
 [72] PICARD, PIERRE-ALEX, FR
 [72] LABRY, PIERRE-JACQUES, FR
 [71] RATIER-FIGEAC SAS, FR
 [22] 2023-09-13
 [41] 2024-04-30
 [30] EP (22306648.1) 2022-10-31

[21] **3,213,893**
 [13] A1

[51] **Int.Cl. A61K 31/216 (2006.01) A61K
 31/19 (2006.01) A61P 3/04 (2006.01)**
 [25] EN
 [54] **KETOGENIC COMPOSITIONS &
 METHODS OF USE THEREOF**
 [54] **COMPOSITIONS CETOGENES ET
 METHODES D'UTILISATION**
 [72] CAVALERI, FRANCO, CA
 [71] CAVALERI HEALTH, INC., CA
 [22] 2023-09-26
 [41] 2024-04-30
 [30] US (63/420,723) 2022-10-31

[21] **3,211,885**
 [13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F
 40/10 (2020.01) A24F 40/42 (2020.01)
 A24F 40/485 (2020.01)**
 [25] EN
 [54] **ELECTRONIC VAPORIZATION
 DEVICE AND VAPORIZER**
 [54] **DISPOSITIF DE VAPORISATION
 ELECTRONIQUE ET
 VAPORISATEUR**
 [72] ZHONG, XIAOJUN, KY
 [71] VERDEWELL INTERNATIONAL
 HOLDINGS LIMITED, KY
 [22] 2023-09-11
 [41] 2024-04-28
 [30] CN (202222874716.7) 2022-10-28

[21] **3,212,997**
 [13] A1

[51] **Int.Cl. F27D 1/00 (2006.01) F27B 3/10
 (2006.01) F27D 3/00 (2006.01)**
 [25] EN
 [54] **HEAT TREATMENT APPARATUS
 FOR MANUFACTURING ACTIVE
 MATERIAL FOR SECONDARY
 BATTERY**
 [54] **APPAREIL DE TRAITEMENT
 THERMIQUE POUR LA
 FABRICATION D'UNE MATIERE
 ACTIVE POUR UNE BATTERIE
 SECONDAIRE**
 [72] LEE, SUNG MUN, KR
 [72] KANG, SHIN PIL, KR
 [72] CHOI, YOUNG JIN, KR
 [71] HANWHA CORPORATION, KR
 [22] 2023-09-19
 [41] 2024-05-03
 [30] KR (10-2022-0145526) 2022-11-03

[21] **3,213,918**
 [13] A1

[51] **Int.Cl. B64C 13/04 (2006.01) B64C
 13/24 (2006.01) B64C 25/44 (2006.01)**
 [25] EN
 [54] **PEDAL MECHANISM**
 [54] **MECANISME DE PEDALE**
 [72] PICARD, PIERRE-ALEX, FR
 [72] SOULIE, ARNAUD, FR
 [72] MAZARS, BENOIT, FR
 [71] RATIER-FIGEAC SAS, FR
 [22] 2023-09-22
 [41] 2024-04-30
 [30] EP (22306649.9) 2022-10-31

**Canadian Applications Open to Public Inspection
April 28, 2024 to May 4, 2024**

[21] **3,213,958**
[13] A1

[51] **Int.Cl. F24C 7/08 (2006.01) A47J 36/24 (2006.01) G05D 23/00 (2006.01)**
[25] EN
[54] **HEATING COOKER, COMPUTER PROGRAM, AND HEATING COOKING METHOD**
[54] **CUISEUR CHAUFFANT, PROGRAMME INFORMATIQUE ET METHODE DE CUISSON A LA CHALEUR**
[72] NAKAMURA, KEIGO, JP
[72] TOMISHIGE, KAORU, JP
[71] SHARP KABUSHIKI KAISHA, JP
[22] 2023-09-25
[41] 2024-05-04
[30] JP (2022-177165) 2022-11-04

[21] **3,214,097**
[13] A1

[51] **Int.Cl. B60R 1/24 (2022.01) B60R 1/10 (2006.01) B60K 35/40 (2024.01)**
[25] EN
[54] **IMPROVED VISIBILITY OF WORK IMPLEMENT USING AUGMENTED REALITY**
[54] **VISIBILITE AMELIOREE D'UN APPAREIL DE TRAVAIL AU MOYEN DE LA REALITE AUGMENTEE**
[72] GONZALEZ, JUAN DANIEL, MX
[72] MARTINEZ, IGNACIO ALONSO, MX
[72] CHAPA MONTEMAYOR, DANIEL, MX
[71] DEERE & COMPANY, US
[22] 2023-09-25
[41] 2024-04-28
[30] US (17/976,008) 2022-10-28

[21] **3,215,018**
[13] A1

[51] **Int.Cl. E02F 9/22 (2006.01) A01B 63/10 (2006.01) E02F 3/42 (2006.01) E02F 3/627 (2006.01)**
[25] EN
[54] **LINKAGE ASSEMBLY FOR CONSTRUCTION MACHINE**
[54] **TIMONERIE POUR UNE MACHINE DE CONSTRUCTION**
[72] KUMBHAR, NILESH, US
[72] GRAHAM, BRETT S., US
[72] VILAR, ERIC, US
[72] WUISAN, GIOVANNI A., US
[71] DEERE & COMPANY, US
[22] 2023-09-29
[41] 2024-05-03
[30] US (17/979,900) 2022-11-03

[21] **3,215,150**
[13] A1

[51] **Int.Cl. A01N 63/20 (2020.01) A01N 63/22 (2020.01) A01N 63/27 (2020.01) A01N 63/28 (2020.01) A01N 63/36 (2020.01) A01N 63/38 (2020.01) C05F 11/08 (2006.01) C05G 3/00 (2020.01) C12N 1/14 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **AGRICULTURAL COMPOSITIONS AND METHODS FOR THE DELIVERY OF PLANT HEALTH-PROMOTING MICROBES**
[54] **COMPOSITIONS AGRICOLES ET METHODES POUR L~ADMINISTRATION DE MICROBES PROMOUVANT LA SANTE DES PLANTES**
[72] GREENSHIELDS, DAVE, CA
[72] WICKRAMARATHNA, ARUNA, CA
[72] MATEUS MALDONADO, JUAN FELIPE, CA
[72] MACPHERSON, KASSIDY, CA
[71] GREENSHIELDS, DAVE, CA
[71] WICKRAMARATHNA, ARUNA, CA
[71] MATEUS MALDONADO, JUAN FELIPE, CA
[71] MACPHERSON, KASSIDY, CA
[22] 2023-10-03
[41] 2024-04-30

[21] **3,215,197**
[13] A1

[51] **Int.Cl. F21K 9/20 (2016.01)**
[25] EN
[54] **LAMP UNIT, CONNECTOR AND LAMP SYSTEM**
[54] **UNITE DE LAMPE, CONNECTEUR ET SYSTEME DE LAMPE**
[72] TANG, FANGRU, CN
[72] WANG, AIJUN, CN
[72] WANG, ZHIYONG, CN
[72] XU, HONGBIN, CN
[72] LU, YANG, CN
[71] SAVANT TECHNOLOGIES LLC, US
[22] 2023-10-03
[41] 2024-05-01
[30] CN (2022229196903) 2022-11-01

[21] **3,215,657**
[13] A1

[51] **Int.Cl. B65G 23/44 (2006.01) A01D 61/02 (2006.01)**
[25] EN
[54] **SYSTEME DE TENSION DE BANDE**
[54] **WEB TENSION MEASUREMENT UNIT**
[72] GANTZER, CHRISTIAN, FR
[71] KUHN SAS, FR
[22] 2023-10-06
[41] 2024-05-03
[30] FR (FR 2211450) 2022-11-03

[21] **3,216,010**
[13] A1

[51] **Int.Cl. E04F 15/02 (2006.01) E04B 5/02 (2006.01)**
[25] EN
[54] **FOOTING APPARATUS FOR A DECK FRAME**
[54] **APPAREIL D'EMPATTEMENT POUR UN CADRE DE PLATEFORME**
[72] GURSKI, CLAYTON D. J., CA
[71] GURSKI, CLAYTON D. J., CA
[22] 2023-10-11
[41] 2024-04-28
[30] US (63/420,141) 2022-10-28

[21] **3,216,050**
[13] A1

[51] **Int.Cl. E21B 43/10 (2006.01) E21B 17/07 (2006.01) E21B 33/14 (2006.01) E21B 34/06 (2006.01)**
[25] EN
[54] **DOWNHOLE APPARATUS AND METHODS**
[54] **APPAREIL EN FOND DE TROU ET METHODES**
[72] HORN, TRISTAM PAUL, GB
[72] BRUCE, STEPHEN EDMUND, GB
[72] SHAND, DAVID MICHAEL, GB
[71] DELTATEK OIL TOOLS LIMITED, GB
[22] 2023-10-11
[41] 2024-05-04
[30] GB (2216431.3) 2022-11-04

Demandes canadiennes mises à la disponibilité du public
28 avril 2024 au 4 mai 2024

[21] **3,216,116**
[13] A1

[51] **Int.Cl. G06V 30/41 (2022.01) G06V 10/25 (2022.01) G06V 10/82 (2022.01) G06V 30/414 (2022.01) G07D 7/00 (2016.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ELECTRONIC ALTERED DOCUMENT DETECTION**

[54] **SYSTEME ET METHODE DE DETECTION DE DOCUMENT ELECTRONIQUE ALTERE**

[72] KHURANA, PRERNA, CA

[72] KUNDU KASTURI, CA

[72] SMYTH, CATHAL, CA

[72] PARKHA, PAYAM, CA

[72] RYAN, NIALL, CA

[72] CHEN, CHUHAN, CA

[72] GUNTIMADUGU, SURAJ RAJU, CA

[72] AMIRI, RAMIN, CA

[72] SHUKLA, ANUJA, CA

[71] ROYAL BANK OF CANADA, CA

[22] 2023-10-11

[41] 2024-04-30

[30] US (63/420,954) 2022-10-31

[21] **3,216,631**
[13] A1

[51] **Int.Cl. E04H 17/14 (2006.01) E04H 17/16 (2006.01) E04H 17/20 (2006.01) E04H 17/26 (2006.01)**

[25] EN

[54] **JOINING APPARATUS AND METHOD FOR HORIZONTAL VINYL FENCE**

[54] **APPAREIL DE RACCORD ET METHODE D'INSTALLATION DE CLOTURE EN VINYLE**

[72] SCHNEIDER, CHRISTOPHER MICHAEL, US

[72] WRIGHT, DOUGLAS GRANT, US

[72] BERTKE, PATRICK JOSEPH, US

[71] BARRETTE OUTDOOR LIVING, INC., US

[22] 2023-10-16

[41] 2024-04-30

[30] US (17/978,134) 2022-10-31

[21] **3,216,646**
[13] A1

[51] **Int.Cl. E21B 47/13 (2012.01)**

[25] EN

[54] **DOWNHOLE ELECTROMAGNETIC INDUCTION COMMUNICATION DEVICE**

[54] **DISPOSITIF DE COMMUNICATION A INDUCTION ELECTROMAGNETIQUE EN FOND DE TROU**

[72] CRANE, ALEX, GB

[72] ZHURAVLEV, YURI, GB

[71] LEADING MAGNETIC DESIGN LTD, GB

[22] 2023-10-16

[41] 2024-04-28

[30] GB (2216010.5) 2022-10-28

[21] **3,217,156**
[13] A1

[51] **Int.Cl. B62J 17/04 (2006.01) B60J 1/02 (2006.01) B62D 25/08 (2006.01)**

[25] EN

[54] **VEHICLE WITH A WINDSHIELD ASSEMBLY**

[54] **VEHICULE COMPRENANT UN ASSEMBLAGE DE PARE-BRISE**

[72] SAVOIE, FELIX, CA

[72] LARROUY, REMI, CA

[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA

[22] 2023-10-19

[41] 2024-04-28

[30] US (63/420,135) 2022-10-28

[21] **3,217,269**
[13] A1

[51] **Int.Cl. F16M 13/02 (2006.01) B60R 11/02 (2006.01)**

[25] EN

[54] **WINDSHIELD PHONE MOUNT WITH EXTENSION ARM BUMPER**

[54] **SUPPORT DE TELEPHONE SUR PARE-BRISE COMPRENANT UN AMORTISSEUR DE BRAS D'EXTENSION**

[72] IVERSON, DAVID S., US

[71] MACNEIL IP LLC, US

[22] 2023-10-19

[41] 2024-04-28

[30] US (17/975756) 2022-10-28

[21] **3,217,298**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 30/0202 (2023.01) G06Q 40/03 (2023.01) G06F 17/18 (2006.01)**

[25] EN

[54] **TRANSFORMER-BASED ARCHITECTURE FOR DENSITY RATIO ESTIMATION**

[54] **ARCHITECTURE A BASE DE TRANSFORMATEUR POUR UNE ESTIMATION DE RAPPORT DE DENSITE**

[72] TANG, KEYI, CA

[72] CAO, YANSHUAI, CA

[71] ROYAL BANK OF CANADA, CA

[22] 2023-10-20

[41] 2024-05-01

[30] US (63/421,484) 2022-11-01

[21] **3,217,300**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 30/0202 (2023.01) G06Q 40/03 (2023.01) G06F 17/18 (2006.01)**

[25] EN

[54] **TRANSFORMER-BASED ARCHITECTURE FOR DENSITY RATIO ESTIMATION**

[54] **ARCHITECTURE A BASE DE TRANSFORMATEUR POUR UNE ESTIMATION DE RAPPORT DE DENSITE**

[72] TANG, KEYI, CA

[72] CAO, YANSHUAI, CA

[71] ROYAL BANK OF CANADA, CA

[22] 2023-10-20

[41] 2024-05-01

[30] US (63/421,484) 2022-11-01

Canadian Applications Open to Public Inspection
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[21] **3,217,483**
[13] A1

[51] **Int.Cl. H04W 88/08 (2009.01) H04B 1/38 (2015.01)**
[25] EN
[54] **AN INTEGRATED REMOTE RADIO HEAD AND ANTENNA MODULE ASSEMBLY**
[54] **UNITE DE RADIO ELOIGNEE INTEGREE ET ASSEMBLAGE DE MODULE D~ANTENNE**
[72] TOWNE, GERALD, US
[72] PETERS, JARON, US
[72] VIJ, VINAY, JP
[71] COMMUNICATION COMPONENTS ANTENNA INC., CA
[22] 2023-10-23
[41] 2024-05-01
[30] US (17/978.881) 2022-11-01
[30] US (18/471.287) 2023-09-20

[21] **3,217,532**
[13] A1

[51] **Int.Cl. C04B 28/02 (2006.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01) B28B 1/14 (2006.01) B28B 19/00 (2006.01) B28B 23/00 (2006.01) C04B 7/00 (2006.01) C04B 14/06 (2006.01) C04B 22/00 (2006.01)**
[25] EN
[54] **ARTICLES OF MANUFACTURE AND CONCRETE FORMULATIONS FOR USE THEREWITH**
[54] **PRODUITS DE FABRICATION ET FORMULATIONS DE BETON CONNEXES**
[72] OUTHWAITE, AARON SCOT, CA
[72] DAUB, SALLY JEAN, CA
[72] POMEROY, JOHN W., CA
[71] WRMTH CORP., CA
[22] 2023-10-23
[41] 2024-04-28
[30] US (63/381,360) 2022-10-28
[30] US (63/428,811) 2022-11-30
[30] US (18/479,257) 2023-10-02

[21] **3,217,535**
[13] A1

[51] **Int.Cl. B60D 1/24 (2006.01)**
[25] EN
[54] **WEIGHT DISTRIBUTING HITCH SYSTEM**
[54] **SYSTEME D'ATTELAGE REPARTEUR DE CHARGE**
[72] JELINEK, TYLER, US
[72] MCCALL, TRAVIS M., US
[72] SORENSON, LARRY, US
[72] WORKS, JOSEPH W., US
[72] JONES, TAYLOR, US
[71] B & W CUSTOM TRUCK BEDS, INC., US
[22] 2023-10-23
[41] 2024-04-28
[30] US (63/381,495) 2022-10-28
[30] US (18/348,221) 2023-07-06

[21] **3,217,657**
[13] A1

[25] EN
[54] **CLOSED-LOOP INPUT/OUTPUT POINTS TESTING**
[54] **ESSAI DE POINTS D~ENTREE/DE SORTIE EN BOUCLE FERMEE**
[72] BRUNOT, PASCAL, IT
[72] MEICHAEL, MINA SHOKRALLA ZEKRY YASA, IT
[71] SCHNEIDER ELECTRIC SYSTEMS ITALIA S.P.A., IT
[22] 2023-10-24
[41] 2024-05-04
[30] US (18/052716) 2022-11-04

[21] **3,217,675**
[13] A1

[51] **Int.Cl. E04H 15/02 (2006.01) E04H 1/02 (2006.01) E04H 15/08 (2006.01) E04H 15/32 (2006.01)**
[25] EN
[54] **STACKED TEMPORARY LODGINGS AND CONNECTORS**
[54] **LOGEMENTS TEMPORAIRES EMPILES ET CONNECTEURS**
[72] SHIRLEY-SMITH, ALEX, GB
[71] SHIRLEY-SMITH, ALEX, GB
[22] 2023-10-25
[41] 2024-04-30
[30] US (17/976,930) 2022-10-31

[21] **3,217,681**
[13] A1

[51] **Int.Cl. H01R 13/6585 (2011.01) H01R 12/50 (2011.01) H01R 13/6461 (2011.01)**
[25] EN
[54] **GROUND SHIELDS POSITIONED BETWEEN COLUMNS OF CONTACTS**
[54] **BLINDAGES DE TERRE POSITIONNES ENTRE DES COLONNES DE CONTACTS**
[72] GINGRICH, CHARLES RAYMOND, III, US
[72] SMINK, RUTGER WILHELMUS, NL
[72] TUIN, JACOBUS NICOLAAS, NL
[72] WALTON, SCOTT ERIC, US
[72] MILLER, KEITH EDWIN, US
[71] TE CONNECTIVITY SOLUTIONS GMBH, CH
[22] 2023-10-25
[41] 2024-04-28
[30] US (18/050,576) 2022-10-28

[21] **3,217,688**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06F 16/27 (2019.01)**
[25] EN
[54] **MULTI-FACTOR AUTHENTICATION USING BLOCKCHAIN**
[54] **AUTHENTICIFICATION MULTIFACTEUR AU MOYEN DE LA CHAINE DE BLOCS**
[72] PRATHIPATI, JAYANTH, US
[72] PICK, DANIEL, US
[72] HART, COLIN, US
[71] CAPITAL ONE SERVICES LLC, US
[22] 2023-10-24
[41] 2024-04-28
[30] US (18/050952) 2022-10-28

[21] **3,217,705**
[13] A1

[51] **Int.Cl. E04H 17/14 (2006.01) E04H 17/00 (2006.01)**
[25] EN
[54] **BARRIER HEIGHT EXTENDER**
[54] **EXTENSION DE HAUTEUR DE BARRIERE**
[72] HERITAGE, CHRISTOPHER J., US
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-10-25
[41] 2024-04-28
[30] US (63/420,434) 2022-10-28

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[21] **3,217,709**
[13] A1

[51] **Int.Cl. B62D 1/184 (2006.01) B62D 1/187 (2006.01)**
[25] EN
[54] **VEHICLE HAVING A STEERING ASSEMBLY**
[54] **VEHICULE COMPRENANT UN MECANISME DE DIRECTION**
[72] DUFORD, JEREMIE, CA
[72] RAMIERE, ANTHONY, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2023-10-25
[41] 2024-04-30
[30] US (63/420,991) 2022-10-31

[21] **3,217,731**
[13] A1

[51] **Int.Cl. A01C 7/14 (2006.01) A01C 7/04 (2006.01) A01C 7/18 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **SEED METERING DEVICE AND METHOD OF MOUNTING THE SAME**
[54] **DOSEUR A SEMENCES ET METHODES D-INSTALLATION**
[72] GARNER, ELIJAH B., US
[72] BORKGREN, STANLEY R., US
[72] HARMON, ANDREW W., US
[71] DEERE & COMPANY, US
[22] 2023-10-24
[41] 2024-04-30
[30] US (63/420,856) 2022-10-31
[30] US (18/486,698) 2023-10-13

[21] **3,217,808**
[13] A1

[51] **Int.Cl. G06K 7/10 (2006.01) G06F 13/40 (2006.01)**
[25] EN
[54] **EMBEDDED RFID TAG READER**
[54] **LECTEUR D'ETIQUETTE RFID INTEGRE**
[72] SUN, JIAN, CA
[72] HU, JIANQUAN, CA
[72] HUI, SHIQIANG, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[22] 2023-10-26
[41] 2024-04-28
[30] US (63/420162) 2022-10-28

[21] **3,217,817**
[13] A1

[51] **Int.Cl. H01R 13/6585 (2011.01) H01R 13/6461 (2011.01) H01R 13/24 (2006.01)**
[25] EN
[54] **CONTACT AND SHIELD CONFIGURATION FOR GROUND CURRENT OPTIMIZATION**
[54] **CONFIGURATION DE CONTACT ET DE BLINDAGE POUR L'OPTIMISATION DE COURANT A LA TERRE**
[72] MILLER, KEITH EDWIN, US
[72] WALTON, SCOTT ERIC, US
[72] GINGRICH III, CHARLES RAYMOND, US
[72] SMITH, RODNEY, US
[71] TE CONNECTIVITY SOLUTIONS GMBH, CH
[22] 2023-10-25
[41] 2024-04-28
[30] US (18/050,523) 2022-10-28

[21] **3,217,823**
[13] A1

[51] **Int.Cl. G06K 19/067 (2006.01) G07C 9/20 (2020.01) G06K 1/12 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVISIONING A PHYSICAL SECURITY TOKEN**
[54] **SYSTEME ET METHODE POUR FOURNIR UN JETON DE SECURITE PHYSIQUE**
[72] FAUVET, JEREMY, CA
[72] LEDEBT, HERVE, CA
[72] DE LA HOZ, DAMIEN, CA
[71] GENETEC INC., CA
[22] 2023-10-25
[41] 2024-04-28
[30] EP (22306645.7) 2022-10-28

[21] **3,217,834**
[13] A1

[51] **Int.Cl. E05B 1/00 (2006.01) E05B 37/20 (2006.01) E05B 49/00 (2006.01)**
[25] EN
[54] **DOOR LOCK ASSEMBLY**
[54] **ASSEMBLAGE DE SERRURE DE PORTE**
[72] DERHAM, MICHAEL, GB
[71] MIGHTON PRODUCTS LIMITED, GB
[22] 2023-10-26
[41] 2024-04-30
[30] GB (2216070.9) 2022-10-31

[21] **3,217,854**
[13] A1

[25] FR
[54] **NON-DESTRUCTIVE CONTROL PROCEDURE FOR A PLURALITY OF ELEMENTS**
[54] **PROCEDE DE CONTROLE NON DESTRUCTIF D'UNE PLURALITE D'ELEMENTS**
[72] PAUL, NICOLAS, FR
[72] COURET, LAURA, FR
[71] ELECTRICITE DE FRANCE, FR
[22] 2023-10-26
[41] 2024-04-28
[30] FR (2211287) 2022-10-28

[21] **3,217,884**
[13] A1

[51] **Int.Cl. E04H 17/20 (2006.01) E04H 17/14 (2006.01)**
[25] EN
[54] **MIXED MATERIAL HORIZONTAL ALUMINUM FENCE SYSTEM AND METHOD**
[54] **SYSTEME DE CLOTURE HORIZONTALE EN ALUMINIUM A MATERIAUX MIXTES ET METHODE**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] MOORE, PAIGE BARBARA, US
[72] BERTKE, PATRICK JOSEPH, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-10-26
[41] 2024-04-28
[30] US (63/420,359) 2022-10-28

[21] **3,217,888**
[13] A1

[25] FR
[54] **METHOD FOR DETECTION OF FLAWS IN A TUBULAR HEAT EXCHANGER**
[54] **PROCEDE DE DETECTION DE DEFAUTS DANS UN ECHANGEUR THERMIQUE A TUBES**
[72] MURE, JOSEPH, FR
[72] PAUL, NICOLAS, FR
[72] VALLANCE, LOIC, FR
[71] ELECTRICITE DE FRANCE, FR
[22] 2023-10-26
[41] 2024-04-28
[30] FR (2211290) 2022-10-28

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[21] **3,217,893**
[13] A1

[51] **Int.Cl. H02P 1/16 (2006.01) H02P 1/00 (2006.01) H02P 1/04 (2006.01) H02P 27/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS FOR REDUCED VOLTAGE STARTING OF MOTORS WITH BUMPLESS FORCE TRANSITION**

[54] **APPAREIL ET METHODES DE DEMARRAGE A TENSION REDUITE DE MOTEURS A TRANSITION DE FORCE SANS HEURT**

[72] SIMMS, STAN R., IE

[72] FARR, THOMAS A., IE

[72] BRAGA, GABRIEL TEIXEIRA, IE

[71] EATON INTELLIGENT POWER LIMITED, IE

[22] 2023-10-27

[41] 2024-05-04

[30] US (18/052879) 2022-11-04

[21] **3,217,896**
[13] A1

[51] **Int.Cl. B65D 43/10 (2006.01) B65D 5/18 (2006.01) B65D 5/468 (2006.01) B65D 5/64 (2006.01) B65D 21/036 (2006.01) B65D 43/03 (2006.01)**

[25] EN

[54] **HYBRID CONTAINER**

[54] **CONTENANT HYBRIDE**

[72] GRUEN, SARAH CATHERINE, US

[72] WOLF, KURT, US

[72] SCHULER, JASON, US

[72] SISKINDOVICH, YOHANAN, US

[71] SABERT CORPORATION, US

[22] 2023-10-27

[41] 2024-04-28

[30] US (63/420,394) 2022-10-28

[21] **3,217,898**
[13] A1

[51] **Int.Cl. G06Q 10/0639 (2023.01)**

[25] EN

[54] **REAL-TIME KEY PERFORMANCE INDICATOR**

[54] **INDICATEUR DE RENDEMENT CLE EN TEMPS REEL**

[72] CONRAD, CHRISTOPHER MICHAEL, US

[71] RAVING FAN SERVICES, LLC, US

[22] 2023-10-27

[41] 2024-04-28

[30] US (17/975,930) 2022-10-28

[21] **3,217,903**
[13] A1

[51] **Int.Cl. A61M 16/00 (2006.01)**

[25] EN

[54] **SENSING AND SECRETION BYPASS APPARATUSES AND ASSOCIATED METHODS**

[54] **APPAREILS ET METHODES CONNEXES DE DERIVATION DE LA DETECTION ET DE LA SECRETION**

[72] AVASTHI, RAHUL, US

[72] BENTLEY, IAN, US

[71] HONEYWELL INTERNATIONAL INC., US

[22] 2023-10-27

[41] 2024-05-04

[30] US (18/052,666) 2022-11-04

[21] **3,217,904**
[13] A1

[51] **Int.Cl. F02B 57/00 (2006.01) F02B 53/00 (2006.01) F02B 55/00 (2006.01) F02B 59/00 (2006.01)**

[25] EN

[54] **ROTARY ENGINING ROTOR AND METHOD**

[54] **ROTOR DE MOTEUR A PISTON ROTATIF ET METHODE**

[72] PLAMONDON, ETIENNE, CA

[72] BOUSQUET, MICHEL, CA

[72] JOSHI, NINAD, CA

[72] SAVARIA, VINCENT, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-10-27

[41] 2024-04-28

[30] US (17/976,498) 2022-10-28

[21] **3,217,905**
[13] A1

[51] **Int.Cl. B65D 81/34 (2006.01) B65D 5/02 (2006.01) B65D 5/20 (2006.01) B65D 5/36 (2006.01) B65D 5/42 (2006.01) B65D 5/56 (2006.01) B65D 5/66 (2006.01)**

[25] EN

[54] **MICROWAVABLE PACKAGE HAVING SUSCEPTORS**

[54] **EMBALLAGE POUR MICRO-ONDES COMPRENANT DES MATERIAUX INTERACTIFS**

[72] KHORASI, SAMAN NOOR, US

[72] FALLONE, ALANNA PATRICIA, US

[72] SITTERLY, ERIC, US

[71] H.J. HEINZ COMPANY BRANDS LLC, US

[22] 2023-10-27

[41] 2024-04-28

[30] US (63/420,318) 2022-10-28

[30] US (63/472,184) 2023-06-09

[21] **3,217,906**
[13] A1

[51] **Int.Cl. F02C 7/28 (2006.01)**

[25] EN

[54] **CONDUIT BUSHING WITH CELLULAR MATERIAL**

[54] **MANCHON DE TUBE COMPRENANT UN MATERIAU ALVEOLAIRE**

[72] KOWIEL, KRZYSZTOF, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-10-27

[41] 2024-04-28

[30] US (17/976,465) 2022-10-28

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[21] **3,217,912**
[13] A1

[51] **Int.Cl. F41A 21/26 (2006.01) F41A 21/48 (2006.01) F41A 33/00 (2006.01)**
[25] EN
[54] **CONVERSION KIT FOR REPLACING A BARREL ON A SERVICE WEAPON WITH A TRAINING BARREL TO FIRE REDUCED ENERGY TRAINING ROUNDS**
[54] **TROUSSE DE CONVERSION POUR REMPLACER UN BARILLET D'UNE ARME DE SERVICE PAR UN BARILLET D-ENTRAINEMENT, DANS LE BUT DE TIRER DES PROJECTILES D'EXERCICE A ENERGIE REDUITE**
[72] DION, RICHARD, CA
[72] PICARD, ERICK, CA
[71] GENERAL DYNAMICS ORDNANCE AND TACTICAL SYSTEMS - CANADA INC., CA
[22] 2023-10-27
[41] 2024-04-28
[30] US (63/381,475) 2022-10-28

[21] **3,217,913**
[13] A1

[51] **Int.Cl. C09D 5/18 (2006.01) C09D 7/61 (2018.01) C09D 7/63 (2018.01) E04C 2/02 (2006.01)**
[25] EN
[54] **COATINGS FOR BUILDING PANELS**
[54] **REVETEMENTS POUR PANNEAUX DE CONSTRUCTION**
[72] HUGHES, JOHN E., US
[72] ZHANG, LINZHU, US
[71] ARMSTRONG WORLD INDUSTRIES, INC., US
[22] 2023-10-26
[41] 2024-04-28
[30] US (63/420,209) 2022-10-28

[21] **3,217,944**
[13] A1

[51] **Int.Cl. H04L 65/75 (2022.01)**
[25] FR
[54] **METHOD FOR SENDING AN AUDIO STREAM FROM A PARTICIPATING TERMINAL IN A CONFERENCE SESSION INVOLVING A PLURALITY OF OTHER THIRD-PARTY TERMINALS**
[54] **PROCEDE D'ENVOI D'UN FLUX AUDIO D'UN TERMINAL PARTICIPANT A UNE SESSION DE CONFERENCE IMPLIQUANT UNE PLURALITE D'AUTRES TERMINAUX TIERS**
[72] PREVITALI, FLORENT, FR
[71] STREAMWIDE, FR
[22] 2023-10-27
[41] 2024-05-04
[30] FR (2211518) 2022-11-04

[21] **3,217,949**
[13] A1

[51] **Int.Cl. E04H 17/14 (2006.01) E04H 17/20 (2006.01)**
[25] EN
[54] **BOARD CLEAT APPARATUS AND METHOD FOR MIXED MATERIAL HORIZONTAL ALUMINUM FENCE**
[54] **APPAREIL DE TAQUET DE PANNEAU ET METHODE POUR UNE CLOTURE EN ALUMINIUM HORIZONTALE A MATERIAUX MIXTES**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] BERTKE, PATRICK JOSEPH, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-10-27
[41] 2024-04-28
[30] US (63/420,386) 2022-10-28

[21] **3,217,950**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01) G16H 10/60 (2018.01) G16H 20/00 (2018.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR PERSISTENT HEALTH DATA COLLECTION AND MULTI-LEVEL PRIORITIZATION**
[54] **SYSTEMES ET METHODES MIS EN OEUVRE PAR ORDINATEUR POUR LA COLLECTE DE DONNEES DE SANTE PERSISTANTES ET L'ETABLISSEMENT DE PRIORITES A ECHELONS MULTIPLES**
[72] ANTHONY, JOSHUA, US
[72] KEELER, AMY, US
[72] NORPEL, SAMIA, US
[72] ZAKI, MAURICE, US
[71] JUVYOU (EUROPE) LIMITED, IE
[22] 2023-10-27
[41] 2024-04-30
[30] US (63/381743) 2022-10-31

[21] **3,217,951**
[13] A1

[51] **Int.Cl. B64D 31/00 (2024.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR THRUST LINEARIZATION WITH THRUST LEVER ANGLE**
[54] **SYSTEME ET METHODE RELATIFS A LA LINEARISATION DE POUSSEE ET A L'ANGLE DE MANETTE DE POUSSEE**
[72] POISSANT, JEFFREY, CA
[72] PONTARELLI, ROBERT, CA
[72] CRAINIC, CRISTINA, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-10-27
[41] 2024-04-28
[30] US (17/976,509) 2022-10-28

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[21] **3,217,954**
[13] A1

[51] **Int.Cl. C10M 163/00 (2006.01) C10M 135/18 (2006.01) C10M 159/24 (2006.01)**

[25] EN

[54] **LUBRICATING COMPOSITIONS FOR REDUCED LOW TEMPERATURE VALVE TRAIN WEAR**

[54] **COMPOSITIONS DE LUBRIFICATION POUR REDUIRE L'USURE DE LA COMMANDE DE SOUPE A BASSE TEMPERATURE**

[72] FIELD, SAMUEL BRUCE, GB

[72] GARELICK, KENNETH, US

[72] HOSHINO, HIDETAKA, US

[72] CARPENTIER, GUILLAUME, US

[71] AFTON CHEMICAL CORPORATION, US

[22] 2023-10-27

[41] 2024-04-28

[30] US (18/050,843) 2022-10-28

[21] **3,217,956**
[13] A1

[51] **Int.Cl. H04L 65/75 (2022.01)**

[25] FR

[54] **METHOD FOR PROCESSING A DATA STREAM FROM A CONFERENCE SESSION THROUGH A SESSION SERVER**

[54] **PROCEDE DE TRAITEMENT DE FLUX DE DONNEES D'UNE SESSION DE CONFERENCE PAR UN SERVEUR DE SESSION**

[72] PREVITALI, FLORENT, FR

[71] STREAMWIDE, FR

[22] 2023-10-27

[41] 2024-05-04

[30] FR (2211519) 2022-11-04

[21] **3,217,961**
[13] A1

[51] **Int.Cl. G06Q 10/0639 (2023.01) G06N 20/00 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR WORKER RECOMMENDATIONS**

[54] **SYSTEME ET METHODE DE RECOMMANDATIONS DE TRAVAILLEUR**

[72] KHAN, KALIMULLA, US

[72] JAYATHIRTHA, SRIHARI, US

[72] LINDSEY, WADE, US

[72] MILLER, MICHAEL, US

[71] HONEYWELL INTERNATIONAL INC., US

[22] 2023-10-27

[41] 2024-05-01

[30] US (18/051,731) 2022-11-01

[21] **3,217,962**
[13] A1

[51] **Int.Cl. E05C 1/00 (2006.01) H01R 24/66 (2011.01) E05B 15/02 (2006.01) E05F 7/00 (2006.01) H01R 33/06 (2006.01)**

[25] EN

[54] **LATCH BOLT AND STRIKE PLATE WITH ELECTRICAL CONDUCTOR**

[54] **BOULON DE VERROUILLAGE ET CACHE COMPRENANT UN CONDUCTEUR ELECTRIQUE**

[72] KILSDONK, DANIEL, US

[71] SARGENT MANUFACTURING COMPANY, US

[22] 2023-10-27

[41] 2024-04-28

[30] US (63/420,125) 2022-10-28

[21] **3,218,020**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01) G06F 18/22 (2023.01)**

[25] EN

[54] **BEHAVIOUR DETECTION USING WEARABLE DEVICES**

[54] **DETECTION DE COMPORTEMENT AU MOYEN DE DISPOSITIFS A PORTER**

[72] CAMPBELL, ELLSWORTH MARVIN, III, CA

[72] GUPTA, PUNEET, CA

[72] WEINBERG, KERRY, CA

[71] LEAGUE, INC., CA

[22] 2023-10-30

[41] 2024-04-30

[30] US (63/420,830) 2022-10-31

[21] **3,218,025**
[13] A1

[51] **Int.Cl. B63H 20/12 (2006.01) B63H 20/00 (2006.01) F02D 29/02 (2006.01) F02D 45/00 (2006.01)**

[25] EN

[54] **PORTABLE MOTORIZED PROPULSION SYSTEM FOR A WATERCRAFT**

[54] **SYSTEME DE PROPULSION MOTORISE PORTATIF POUR UNE EMBARCATION**

[72] CHAND, SRI JAGDESH, IN

[72] NOTANEY, SIDDHARTH RAMESH, IN

[72] MONROE, GARY S., US

[72] BAROTE, VISHNU BHAGAWAN, IN

[71] ZOOM FINS LLC, US

[22] 2023-10-30

[41] 2024-04-28

[30] US (18/050,588) 2022-10-28

[21] **3,218,051**
[13] A1

[25] EN

[54] **WEARABLE COMMUNICATION DEVICE HOLDER WITH CUSTOMIZABLE REACH**

[54] **SUPPORT DE DISPOSITIF DE COMMUNICATION A PORTER COMPRENANT UNE ETENDUE PERSONNALISABLE**

[72] RICHMOND, FRED ANTHONY, CA

[71] RICHMOND, FRED ANTHONY, CA

[22] 2023-10-30

[41] 2024-04-30

[30] US (63/381,655) 2022-10-31

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[21] **3,218,068**
[13] A1

[51] **Int.Cl. B64D 33/02 (2006.01) F02C 7/057 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CONTROLLING AN INTAKE INLET SHAPE OF A PROPULSION SYSTEM AIR INTAKE**

[54] **SYSTEMES ET METHODES POUR CONTROLER UNE FORME D-ENTREE DE PRISE D'AIR D-UN SYSTEME DE PROPULSION**

[72] CUNNINGHAM, MARK, CA

[72] AKCAYOZ, ERAY, CA

[72] RAMAMURTHY, RAJA, CA

[72] MARRANO, ROBERTO, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-10-30

[41] 2024-04-30

[30] US (17/977,722) 2022-10-31

[21] **3,218,076**
[13] A1

[51] **Int.Cl. B64D 33/02 (2006.01) F02C 7/052 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CONTROLLING AN AIR FLOW RATE FOR A PROPULSION SYSTEM AIR INTAKE**

[54] **SYSTEMES ET METHODES POUR CONTROLER UN DEBIT D-AIR D-UNE PRISE D'AIR D-UN SYSTEME DE PROPULSION**

[72] AKCAYOZ, ERAY, CA

[72] CUNNINGHAM, MARK, CA

[72] RAMAMURTHY, RAJA, CA

[72] MARRANO, ROBERTO, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-10-30

[41] 2024-04-30

[30] US (17/977,680) 2022-10-31

[21] **3,218,094**
[13] A1

[51] **Int.Cl. A47C 19/02 (2006.01) A47C 16/00 (2006.01)**

[25] EN

[54] **HEADBOARD**

[54] **TETE DE LIT**

[72] WANG, JIETONG, CN

[72] LIU, SHENGHAO, CN

[72] ANDERSON, STEVE, CN

[71] XIBAO (FUJIAN) HOME FURNISHING CO., LTD., CN

[22] 2023-10-30

[41] 2024-04-30

[30] CN (202222917116.4) 2022-10-31

[21] **3,218,199**
[13] A1

[51] **Int.Cl. H01M 4/04 (2006.01) B01F 23/50 (2022.01) B01F 27/72 (2022.01) B01F 35/213 (2022.01) B01F 35/214 (2022.01) B01F 35/22 (2022.01) B01F 35/75 (2022.01)**

[25] EN

[54] **PROCESS AND ARRANGEMENT FOR PRODUCTION OF AN ELECTRODE SUSPENSION**

[54] **PROCEDE ET CONFIGURATION POUR LA PRODUCTION D-UNE SUSPENSION D-ELECTRODE**

[72] HEYN, JOHANNES, DE

[72] FIEDLER, MARKUS, DE

[72] KWADE, ARNO, DE

[72] WEBER, MARCEL, DE

[71] COPERION GMBH, DE

[22] 2023-10-27

[41] 2024-04-28

[30] EP (22204480.2) 2022-10-28

[21] **3,218,207**
[13] A1

[51] **Int.Cl. C04B 28/14 (2006.01) C04B 11/00 (2006.01) C04B 24/38 (2006.01) C04B 24/42 (2006.01)**

[25] EN

[54] **WATER-RESISTANT GYPSUM BOARDS AND METHODS FOR MAKING SAME**

[54] **PANNEAUX DE PLATRE RESISTANTS A L'EAU ET METHODES DE FABRICATION**

[72] AMATO, DAHLIA, US

[72] LESPIAT, REMI, US

[72] MCGINLEY, PATRICK, US

[71] CERTAINTEED GYPSUM, INC., US

[22] 2023-10-31

[41] 2024-04-30

[30] EP (23152810) 2023-01-23

[30] US (63/381,576) 2022-10-31

[21] **3,218,210**
[13] A1

[51] **Int.Cl. G09G 3/20 (2006.01) G09G 3/3225 (2016.01) G09F 9/33 (2006.01) G09G 3/00 (2006.01)**

[25] EN

[54] **LOW-POWER ACTIVE MATRIX DISPLAY WITH ROW AND/OR DATA DRIVER ENERGY RECYCLING TECHNIQUES**

[54] **AFFICHAGE A MATRICE ACTIVE BASSE PUISSANCE COMPRENANT DES TECHNIQUES DE RECYCLAGE D'ENERGIE DU PILOTE DE RANGE ET/OU DE DONNEES**

[72] GOHARDEHI, SHEIDA, CA

[72] SACHDEV, MANOJ, CA

[71] GOHARDEHI, SHEIDA, CA

[71] SACHDEV, MANOJ, CA

[22] 2023-10-31

[41] 2024-05-02

[30] US (63/421,701) 2022-11-02

[21] **3,218,214**
[13] A1

[51] **Int.Cl. E06B 3/42 (2006.01) E06B 1/04 (2006.01) E06B 3/32 (2006.01)**

[25] EN

[54] **CURVED FENESTRATION ASSEMBLIES AND METHODS FOR MAKING THE SAME**

[54] **ASSEMBLAGES DE FENESTRATION INCURVES ET METHODES DE FABRICATION**

[72] ROSS, ROBERT M., US

[72] RASMUSSEN, JAMES, US

[72] STEWART, JAMES H., US

[72] SCHROEDER-SCHOCK, JUSTIN, US

[72] SORBY, ERIC A., US

[71] MARVIN LUMBER AND CEDAR COMPANY, LLC D/B/A MARVIN WINDOWS AND DOORS, US

[22] 2023-10-31

[41] 2024-04-30

[30] US (63/421,110) 2022-10-31

Canadian Applications Open to Public Inspection
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[21] **3,218,243**
[13] A1

[25] EN
[54] **REMOTE MONITORING SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE SURVEILLANCE A DISTANCE**
[72] PROCHNOW, MICHAEL R., US
[71] BOONE CABLE WORKS & ELECTRONICS, INC., US
[22] 2023-10-31
[41] 2024-05-01
[30] US (63/421,370) 2022-11-01
[30] US (18/496,363) 2023-10-27

[21] **3,218,249**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 16/95 (2019.01) G06F 40/143 (2020.01) G06F 40/174 (2020.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MACHINE LEARNING ARCHITECTURE FOR ELECTRONIC FIELD AUTOFILL**
[54] **SYSTEME ET METHODE D'ARCHITECTURE D'APPRENTISSAGE POUR LE REMPLISSAGE DE CHAMP ELECTRONIQUE AUTOMATIQUE**
[72] RATHOD, DHARITRI, CA
[72] NABULSI, ADEL AL, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2023-10-31
[41] 2024-04-30
[30] US (63/421,144) 2022-10-31

[21] **3,218,257**
[13] A1

[51] **Int.Cl. H01M 50/514 (2021.01) H01M 10/6556 (2014.01) H01M 10/6568 (2014.01) H01M 10/6569 (2014.01) H01M 50/204 (2021.01) H01M 50/269 (2021.01) H01M 50/509 (2021.01) H01M 6/50 (2006.01)**
[25] EN
[54] **BATTERY ASSEMBLIES**
[54] **ASSEMBLAGES DE BATTERIE**
[72] JUAN, AARON DANIEL, US
[72] SINGH, SURINDER, US
[72] SHARMA, RATNESH K., US
[71] RELYION ENERGY, INC., US
[22] 2023-10-31
[41] 2024-05-03
[30] US (18/052,468) 2022-11-03

[21] **3,218,277**
[13] A1

[51] **Int.Cl. F16L 29/00 (2006.01) F16L 21/08 (2006.01) F16L 25/00 (2006.01)**
[25] EN
[54] **DYNAMIC MANIFOLD LOCKING SYSTEM**
[54] **SYSTEME DE VERROUILLAGE DE COLLECTEUR DYNAMIQUE**
[72] KIBLER, MATTHEW E., US
[72] SNOKE, NICOLAS G., US
[72] HUTCHINSON, STEVEN M., US
[72] SCHOLL, KYLE W., US
[72] NITTALA, SRIKAR S., US
[71] FHE USA LLC, US
[22] 2023-10-31
[41] 2024-04-30
[30] US (63/381,721) 2022-10-31

[21] **3,218,293**
[13] A1

[51] **Int.Cl. C08L 83/08 (2006.01) B33Y 70/00 (2020.01) B29C 64/112 (2017.01) C08L 75/04 (2006.01)**
[25] EN
[54] **PRINTABLE HYDROPHILIC AND VISCOELASTIC SILICONE MATERIAL AND METHOD OF MANUFACTURING SAME**
[54] **MATERIAU DE SILICONE HYDROPHILE ET VISCOELASTIQUE IMPRIMABLE ET METHODE DE FABRICATION**
[72] GOLZAR, HOSSEIN, CA
[72] TANG, XIAOWU (SHIRLEY), CA
[71] TANG, XIAOWU (SHIRLEY), CA
[71] GOLZAR, HOSSEIN, CA
[22] 2023-11-01
[41] 2024-05-01
[30] US (63/475,328) 2022-11-01

[21] **3,218,324**
[13] A1

[51] **Int.Cl. B64D 33/02 (2006.01) F02C 7/052 (2006.01) F02C 7/057 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING AN AIR FLOW PATH FOR A PROPULSION SYSTEM AIR INTAKE**
[54] **SYSTEMES ET METHODES POUR CONTROLER UNE VOIE DE CIRCULATION D'UNE PRISE D'AIR D'UN SYSTEME DE PROPULSION**
[72] RAMAMURTHY, RAJA, CA
[72] AKCAYOZ, ERAY, CA
[72] CUNNINGHAM, MARK, CA
[72] MARRANO, ROBERTO, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-10-30
[41] 2024-04-30
[30] US (17/977,737) 2022-10-31

[21] **3,218,329**
[13] A1

[51] **Int.Cl. E06B 1/04 (2006.01) E06B 3/32 (2006.01) E06B 3/42 (2006.01)**
[25] EN
[54] **FENESTRATION ASSEMBLY WITH OPERABLE FLOATING SASH AND METHODS FOR SAME**
[54] **ASSEMBLAGE DE FENESTRATION COMPRENANT UN CHASSIS FLOTTANT ET METHODES CONNEXES**
[72] LUND, DAVID M., US
[71] MARVIN LUMBER AND CEDAR COMPANY, LLC D/B/A MARVIN WINDOWS AND DOORS, US
[22] 2023-11-01
[41] 2024-05-01
[30] US (63/421,431) 2022-11-01

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28 avril 2024 au 4 mai 2024

[21] **3,218,363**
 [13] A1

[51] **Int.Cl. B01J 20/34 (2006.01)**
 [25] EN
 [54] **A METHOD OF RECYCLING C-14 IN SPENT RESIN AND APPARATUS FOR RECYCLING THE SAME**
 [54] **METHODE DE RECYCLAGE DE C-14 DANS LA RESINE EPUISEE ET APPAREIL DE RECYCLAGE CONNEXE**
 [72] LEE, KI RAK, KR
 [72] PARK, HWAN SEO, KR
 [72] PARK, GEUN IL, KR
 [72] KIM, GA YEONG, KR
 [72] CHOI, JUNG HOON, KR
 [72] KANG, HYUN WOO, KR
 [71] KOREA ATOMIC ENERGY RESEARCH INSTITUTE, KR
 [22] 2023-10-31
 [41] 2024-05-01
 [30] KR (10-2022-0143867) 2022-11-01

[21] **3,218,364**
 [13] A1

[51] **Int.Cl. F01D 25/12 (2006.01) F01D 5/18 (2006.01) F01D 9/02 (2006.01)**
 [25] EN
 [54] **GAS TURBINE ENGINE COMPONENT WITH INTEGRAL HEAT EXCHANGER**
 [54] **COMPOSANT DE TURBINE A GAZ ET ECHANGEUR DE CHALEUR INTEGRE**
 [72] DUROCHER, ERIC S., CA
 [72] NACCACHE, GABRIEL, CA
 [71] PRATT & WHITNEY CANADA CORP., CA
 [22] 2023-10-27
 [41] 2024-04-28
 [30] US (17/976,397) 2022-10-28

[21] **3,218,369**
 [13] A1

[51] **Int.Cl. F17D 5/02 (2006.01)**
 [25] EN
 [54] **ROBOT BALL DETECTION DEVICE**
 [54] **DISPOSITIF DE DETECTION D'UNE BOULE ROBOT**
 [72] TOFTE, NATHAN L., US
 [72] HARVEY, BRIAN N., US
 [72] KING, VICKI, US
 [72] HARR, JOSEPH P., US
 [71] THE TORONTO-DOMINION BANK, CA
 [22] 2023-11-01
 [41] 2024-05-01
 [30] US (63/421,437) 2022-11-01
 [30] US (63/423,710) 2022-11-08
 [30] US (63/426,255) 2022-11-17
 [30] US (63/432,207) 2022-12-13
 [30] US (63/432,203) 2022-12-13
 [30] US (63/432,209) 2022-12-13
 [30] US (18/122,873) 2023-03-17

[21] **3,218,373**
 [13] A1

[51] **Int.Cl. F01D 25/12 (2006.01) F01D 5/18 (2006.01) F01D 9/02 (2006.01)**
 [25] EN
 [54] **GAS TURBINE ENGINE COMPONENT WITH INTEGRAL HEAT EXCHANGER**
 [54] **COMPOSANT DE TURBINE A GAZ ET ECHANGEUR DE CHALEUR INTEGRE**
 [72] DUROCHER, ERIC S., CA
 [71] PRATT & WHITNEY CANADA CORP., CA
 [22] 2023-10-27
 [41] 2024-04-28
 [30] US (17/976,413) 2022-10-28

[21] **3,218,376**
 [13] A1

[51] **Int.Cl. A61K 38/39 (2006.01) A61K 8/36 (2006.01) A61K 8/37 (2006.01) A61K 8/92 (2006.01) A61K 31/23 (2006.01) A61K 35/56 (2015.01) A61K 36/00 (2006.01) A61K 36/185 (2006.01) A61P 17/00 (2006.01) A61P 17/02 (2006.01) A61P 31/00 (2006.01) A61Q 19/00 (2006.01)**
 [25] EN
 [54] **COMPOSITION OF AND METHOD FOR TREATING INJURY AND/OR SKIN CONDITIONS**
 [54] **COMPOSITION ET METHODE POUR LE TRAITEMENT DE BLESSURES ET/OU DE CONDITIONS DE LA PEAU**
 [72] BETTLE, GRISCOM, III, US
 [72] HAYES, LALANIA, US
 [72] BAKEWELL, SUZANNE, US
 [71] OMEZA HOLDINGS, INC., US
 [22] 2023-10-26
 [41] 2024-04-28
 [30] US (63/420,509) 2022-10-28
 [30] US (63/420,412) 2022-10-28
 [30] US (63/420,202) 2022-10-28

[21] **3,218,377**
 [13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) G16H 10/60 (2018.01) G06N 20/00 (2019.01)**
 [25] EN
 [54] **CLINICAL DIAGNOSTIC AND PATIENT INFORMATION SYSTEMS AND METHODS**
 [54] **DIAGNOSTIC CLINIQUE ET SYSTEMES ET METHODES DE RENSEIGNEMENTS SUR LE PATIENT**
 [72] PALANIAPPAN, RAGHAVAN, US
 [71] IDEXX LABORATORIES, INC., US
 [22] 2023-10-25
 [41] 2024-05-03
 [30] US (63/422,081) 2022-11-03

**Canadian Applications Open to Public Inspection
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[21] **3,218,379**
[13] A1

[51] **Int.Cl. B44B 11/00 (2006.01) B23D 79/00 (2006.01) B44B 1/00 (2006.01) B44B 3/00 (2006.01)**

[25] EN

[54] **ENGRAVING MACHINE FOR ENGRAVING METALLIC FOR NON-METALLIC ITEMS**

[54] **MACHINE A GRAVER POUR LA GRAVURE DANS LES OBJETS METALLIQUES ET NON METALLIQUES**

[72] WILKINSON, DAVID, US
[72] PALMER, ROGER, US
[71] THE HILLMAN GROUP, INC., US
[22] 2023-10-27
[41] 2024-04-28
[30] US (63/381,322) 2022-10-28
[30] US (18/468,838) 2023-09-18

[21] **3,218,383**
[13] A1

[51] **Int.Cl. F16L 55/48 (2006.01)**

[25] EN

[54] **FLUSHABLE PILL SENSOR**

[54] **DETECTEUR EN PILULE ALIMENTE DANS UN TUYAU**

[72] TOFTE, NATHAN L., US
[72] HARVEY, BRIAN N., US
[72] KING, VICKI, US
[72] HARR, JOSEPH P., US
[71] THE TORONTO-DOMINION BANK, CA
[22] 2023-11-01
[41] 2024-05-01
[30] US (63/421,437) 2022-11-01
[30] US (63/423,710) 2022-11-08
[30] US (63/426,255) 2022-11-17
[30] US (63/432,207) 2022-12-13
[30] US (63/432,203) 2022-12-13
[30] US (63/432,209) 2022-12-13
[30] US (18/122,871) 2023-03-17

[21] **3,218,393**
[13] A1

[25] EN

[54] **SUBTERRANEAN WATER PRESSURE SENSORS**

[54] **CAPTEURS DE PRESSION D'EAU SOUTERRAINE**

[72] TOFTE, NATHAN L., US
[72] HARVEY, BRIAN N., US
[72] KING, VICKI, US
[72] HARR, JOSEPH P., US
[71] THE TORONTO-DOMINION BANK, CA
[22] 2023-11-01
[41] 2024-05-01
[30] US (63/421,437) 2022-11-01
[30] US (63/423,710) 2022-11-08
[30] US (63/426,255) 2022-11-17
[30] US (63/432,207) 2022-12-13
[30] US (63/432,203) 2022-12-13
[30] US (63/432,209) 2022-12-13
[30] US (18/122,867) 2023-03-17

[21] **3,218,419**
[13] A1

[51] **Int.Cl. G01M 3/00 (2006.01) E03B 7/09 (2006.01) G05D 23/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETECTING AND PREVENTING DAMAGE TO PIPES**

[54] **SYSTEMES ET METHODES POUR DETECTER ET PREVENIR LES DOMMAGES AUX TUYAUX**

[72] HARVEY, BRIAN N., US
[72] KING, VICKI, US
[71] THE TORONTO-DOMINION BANK, CA
[22] 2023-11-01
[41] 2024-05-01
[30] US (63/421,445) 2022-11-01
[30] US (63/425,541) 2022-11-15
[30] US (63/426,890) 2022-11-21
[30] US (63/437,259) 2023-01-05
[30] US (18/095,678) 2023-01-11

[21] **3,218,424**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR DETECTING AND PREVENTING DAMAGE TO PIPES**

[54] **SYSTEMES ET METHODES POUR DETECTER ET PREVENIR LES DOMMAGES AUX TUYAUX**

[72] HARVEY, BRIAN N., US
[72] KING, VICKI, US
[71] THE TORONTO-DOMINION BANK, CA
[22] 2023-11-01
[41] 2024-05-01
[30] US (63/421,445) 2022-11-01
[30] US (63/425,541) 2022-11-15
[30] US (63/426,890) 2022-11-21
[30] US (63/437,257) 2023-01-05
[30] US (18/095,675) 2023-01-11

[21] **3,218,438**
[13] A1

[25] EN

[54] **METHODS, SYSTEMS, AND APPARATUSES FOR CONTENT STREAM MONITORING**

[54] **METHODES, SYSTEMES ET APPAREILS POUR LA SURVEILLANCE D'UNE DIFFUSION DE CONTENU**

[72] OZAWA, TOSHIRO, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-10-31
[41] 2024-04-30
[30] US (17/977,595) 2022-10-31

[21] **3,218,458**
[13] A1

[51] **Int.Cl. A01K 23/00 (2006.01) A01K 1/01 (2006.01)**

[25] EN

[54] **WASTE COLLECTION DEVICE AND METHOD**

[54] **DISPOSITIF ET METHODE DE COLLECTE DE DECHETS**

[72] DOERR, JENNIFER, CA
[71] DOERR, JENNIFER, CA
[22] 2023-11-01
[41] 2024-05-02
[30] US (63/421,833) 2022-11-02

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[21] **3,218,469**
 [13] A1

[51] **Int.Cl. C09D 7/45 (2018.01) C09D 167/02 (2006.01)**
 [25] EN
 [54] **SPRAYABLE TEXTURE COATING COMPOSITIONS AND METHODS OF APPLICATION**
 [54] **COMPOSITIONS DE REVETEMENT TEXTURE VAPORISABLE ET METHODES D~APPLICATION**
 [72] MITCHELL, SANFORD G., US
 [72] SOLOMON, NICHOLAS, US
 [72] CAUCHI, BRIAN, US
 [72] LATHIA, NIRALI, US
 [72] SEAVER, TODD A., US
 [71] TRANSTAR AUTOBODY TECHNOLOGIES LLC, US
 [22] 2023-10-31
 [41] 2024-04-30
 [30] US (63/420,944) 2022-10-31
 [30] CA (3,181,326) 2022-11-01
 [30] US (18/385,621) 2023-10-31

[21] **3,218,500**
 [13] A1

[51] **Int.Cl. B64D 31/00 (2024.01) F02C 7/057 (2006.01)**
 [25] EN
 [54] **COMPRESSOR BOOST CONTROL FOR AIRCRAFT ENGINE**
 [54] **COMMANDE DE SURALIMENTATION POUR UN MOTEUR D'AERONEF**
 [72] PLAMONDON, ETIENNE, CA
 [71] PRATT & WHITNEY CANADA CORP., CA
 [22] 2023-10-31
 [41] 2024-05-01
 [30] US (17/978,603) 2022-11-01

[21] **3,218,535**
 [13] A1

[51] **Int.Cl. G06F 40/174 (2020.01) G06F 16/95 (2019.01)**
 [25] EN
 [54] **SYSTEM AND METHOD FOR AUTOFILL OF WEBPAGE FIELDS**
 [54] **SYSTEME ET METHODE DE REMPLISSAGE AUTOMATIQUE DES CHAMPS D'UNE PAGE WEB**
 [72] GRANT, KYRA, CA
 [72] BAPTISTE, DARREN, CA
 [72] HOLLAND, EMMA ARTHUR, CA
 [72] GASKIN, HENRY JAMES, CA
 [71] ROYAL BANK OF CANADA, CA
 [22] 2023-10-31
 [41] 2024-04-30
 [30] US (63/420,912) 2022-10-31

[21] **3,218,546**
 [13] A1

[51] **Int.Cl. C10G 53/08 (2006.01) C08K 3/22 (2006.01) C08K 3/34 (2006.01) C08K 3/36 (2006.01) C08L 67/00 (2006.01) C08L 101/02 (2006.01) C10G 25/02 (2006.01)**
 [25] EN
 [54] **NAPHTHALENE TYPE POLYMERS AS SOLID HYDROGEN TRANSFER AGENTS (SHTA), COMBINED WITH HYDROTREATING CATALYSTS TO OBTAIN ULTRA LOW SULFUR DIESEL (ULSD)**
 [54] **POLYMERES DE TYPE NAPHTALENE COMME AGENTS DE TRANSFERT A HYDROGENE EN PHASE SOLIDE COMBINES A DES CATALYSEURS D~HYDROTRAITEMENT POUR OBTENIR UN CARBURANT DIESEL A TRES FAIBLE TENEUR EN SOUFRE**
 [72] ALEMAN VAZQUEZ, LAURA OLIVIA, MX
 [72] ALONSO MARTINEZ, FERNANDO, MX
 [72] LAGOS GALVAN, FLAVIO AMERICO, MX
 [72] LUNA RAMIREZ, MARIA DEL ROSARIO SOCORRO, MX
 [72] TORRES MANCERA, LEON PABLO, MX
 [72] AGUILAR ESCALANTE, RODOLFO, MX
 [72] ANCHEYTA JUAREZ, JORGE, MX
 [71] INSTITUTO MEXICANO DEL PETROLEO-UNIVERSIDAD DE GUANAJUATO, MX
 [22] 2023-10-31
 [41] 2024-04-30
 [30] MX (MX/A/2022/013720) 2022-10-31

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[21] **3,218,568**
[13] A1

[51] **Int.Cl. H04L 9/30 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SECURE DATA COMMUNICATIONS FOR STREAMLINED ELECTRONIC TRANSACTION PROCESSING**
[54] **SYSTEMES ET METHODES POUR DES COMMUNICATIONS DE DONNEES SECURISEES POUR LE TRAITEMENT SIMPLIFIE DE TRANSACTION ELECTRONIQUE**
[72] BADAL-BADALIAN, ARNOLD, CA
[72] BAEK, SEUNG BONG, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2023-10-31
[41] 2024-04-30
[30] US (63/421,168) 2022-10-31

[21] **3,218,572**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR ZERO-KNOWLEDGE FACIAL RECOGNITION**
[54] **SYSTEME ET METHODE POUR LA RECONNAISSANCE FACIALE NULLE DE CONNAISSANCE**
[72] POURTABATABAIE, ARYA, CA
[72] CHOI, JOSEPH, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2023-10-31
[41] 2024-04-30
[30] US (63/421,164) 2022-10-31

[21] **3,218,672**
[13] A1

[25] EN
[54] **METHOD FOR TESTING AT LEAST ONE BATTERY CELL STACK WITH REGARD TO THE POSITION OF BATTERY CELL LAYERS**
[54] **METHODE DE MISE A L-ESSAI D-AU MOINS UN ASSEMBLAGE D-ELEMENT DE BATTERIE PAR RAPPORT A LA POSITION DES COUCHES D-ELEMENTS DE BATTERIE**
[72] MASUCH, STEFFEN, DE
[71] VOLKSWAGEN AKTIENGESELLSCHAFT, DE
[22] 2023-11-02
[41] 2024-05-04
[30] DE (10 2022 211 683.6) 2022-11-04

[21] **3,218,718**
[13] A1

[51] **Int.Cl. A01K 85/00 (2006.01) A01K 85/12 (2006.01) A01K 85/14 (2006.01)**
[25] EN
[54] **PROPELLER JIGGING SPOON LURES**
[54] **LEURRE EN CUILLERE A TURLUTTES COMPRENANT DES HELICES**
[72] PERIC, ALEX, US
[72] WIEBE, AARON, CA
[71] PERIC, ALEX, US
[71] WIEBE, AARON, CA
[22] 2023-11-03
[41] 2024-05-04
[30] US (63/422,726) 2022-11-04

[21] **3,218,720**
[13] A1

[25] EN
[54] **MEASURING FLUID TEMPERATURE IN A GAS METER**
[54] **MESURE DE LA TEMPERATURE DE FLUIDE DANS UN COMPTEUR DE GAZ**
[72] ARTIUCH, ROMAN LEON, US
[72] ROTHWELL, LORA PALACIOS, US
[72] GRAEBNER, ADAM PAUL, US
[71] NATURAL GAS SOLUTIONS NORTH AMERICA, LLC, US
[22] 2023-11-01
[41] 2024-05-01
[30] US (63/421,266) 2022-11-01
[30] US (18/496,972) 2023-10-30

[21] **3,218,721**
[13] A1

[51] **Int.Cl. B60L 50/60 (2019.01) B62D 55/07 (2006.01) B62M 27/02 (2006.01)**
[25] EN
[54] **ELECTRICALLY-POWERED SNOWMOBILE**
[54] **MOTONEIGE ELECTRIQUE**
[72] SCHROEDER, MATTHEW, CA
[71] TAIGA MOTORS INC., CA
[22] 2023-11-02
[41] 2024-05-04
[30] US (63/422,617) 2022-11-04

[21] **3,218,731**
[13] A1

[51] **Int.Cl. B65D 81/38 (2006.01) A45C 11/20 (2006.01) A47J 47/10 (2006.01) A47J 47/14 (2006.01) B65D 6/10 (2006.01)**
[25] EN
[54] **INSULATED CONTAINER FOR KEEPING LUNCH FOOD**
[54] **CONTENANT ISOLE POUR CONSERVER LES REPAS**
[72] BOULERICE, PASCALE, CA
[72] BORDELEAU, ERIC, CA
[71] BOULERICE, PASCALE, CA
[71] BORDELEAU, ERIC, CA
[22] 2023-11-03
[41] 2024-05-04
[30] GB (2216497.4) 2022-11-04

[21] **3,218,762**
[13] A1

[51] **Int.Cl. H04W 72/20 (2023.01) H04W 74/08 (2024.01) H04W 84/12 (2009.01)**
[25] EN
[54] **COMMUNICATIONS USING MILLIMETER WAVES**
[54] **COMMUNICATIONS A L-AIDE D-ONDES MILLIMETRIQUES**
[72] BAYKAS, TUNCER, US
[72] KIM, JEONGKI, US
[72] DINAN, ESMAEL HEJAZI, US
[72] LANANTE, LEONARDO ALISASIS, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-10-31
[41] 2024-04-30
[30] US (63/420,739) 2022-10-31

Demandes canadiennes mises à la disponibilité du public

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[21] **3,218,764**
[13] A1

[51] **Int.Cl. H04W 72/25 (2023.01) H04W 72/0446 (2023.01) H04W 72/40 (2023.01) H04W 72/563 (2023.01)**

[25] EN

[54] **ASSIGNMENT OF CONSECUTIVE RESOURCES FOR SIGNAL TRANSMISSION**

[54] **ATTRIBUTION DE RESSOURCES CONSECUTIVES POUR LA TRANSMISSION DE SIGNAUX**

[72] HUI, BING, US

[72] CIRIK, ALI CAGATAY, US

[72] DINAN, ESMAEL HEJAZI, US

[72] LIN, HUIFA, US

[72] JEON, HYOUNGSUK, US

[72] HONG, JONGWOO, US

[72] RASTEGARDOOST, NAZANIN, US

[72] KIM, TAEHUN, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2023-11-02

[41] 2024-05-02

[30] US (63/421,847) 2022-11-02

[21] **3,218,766**
[13] A1

[51] **Int.Cl. H04W 36/08 (2009.01) H04W 36/38 (2009.01) H04W 76/19 (2018.01) H04W 72/231 (2023.01)**

[25] EN

[54] **CELL SWITCHING**

[54] **COMMUTATION DE CELLULES**

[72] KIM, TAEHUN, US

[72] JEON, HYOUNGSUK, US

[72] DINAN, ESMAEL HEJAZI, US

[72] XU, JIAN, US

[72] PARK, KYUNGMIN, US

[72] LATHEEF, FASIL ABDUL, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2023-11-02

[41] 2024-05-02

[30] US (63/421,978) 2022-11-02

[21] **3,218,774**
[13] A1

[51] **Int.Cl. A47B 63/06 (2006.01) G06Q 10/08 (2023.01)**

[25] EN

[54] **VERTICAL ASSET MANAGEMENT DEVICE**

[54] **DISPOSITIF DE GESTION DE BIENS VERTICAL**

[72] JIN, YONG SUK, CA

[72] DUTKIEWICZ, KRIS, CA

[72] JAFFER, SHAMIRA, CA

[71] SIGNIFI SOLUTIONS INC., CA

[22] 2023-11-02

[41] 2024-05-03

[30] US (63/382150) 2022-11-03

[21] **3,218,775**
[13] A1

[51] **Int.Cl. A47C 27/10 (2006.01) A61B 5/02 (2006.01) A61H 9/00 (2006.01)**

[25] EN

[54] **A MATTRESS WITH INTEGRATED MASSAGE CAPABILITY**

[54] **MATELAS A FONCTION DE MASSAGE INTEGREE**

[72] WERNER, MARC LOUIS, US

[71] WERNER MEDIA PARTNERS, LLC, US

[22] 2023-11-03

[41] 2024-05-04

[30] US (17/980,984) 2022-11-04

[21] **3,218,790**
[13] A1

[51] **Int.Cl. G07C 9/25 (2020.01) G06V 20/50 (2022.01) G06V 40/16 (2022.01) E04H 1/12 (2006.01)**

[25] EN

[54] **USER ACCOUNTABILITY RESTROOM**

[54] **TOILETTES A RESPONSABILISATION DES UTILISATEURS**

[72] SLAGEL, ROBERT RHETT, US

[71] DROPBOX, INC., US

[22] 2023-11-03

[41] 2024-05-04

[30] US (63/382,367) 2022-11-04

[21] **3,218,794**
[13] A1

[51] **Int.Cl. H05K 7/14 (2006.01) H01R 12/73 (2011.01)**

[25] EN

[54] **STIFFENER FOR USE WITH PLUG-IN MODULE**

[54] **RAIDISSEUR A UTILISER AVEC UN MODULE ENFICHABLE**

[72] ANNIS, KYLE GARY, US

[71] TE CONNECTIVITY SOLUTIONS GMBH, CH

[22] 2023-11-01

[41] 2024-05-02

[30] US (18/051986) 2022-11-02

[21] **3,218,852**
[13] A1

[51] **Int.Cl. B60P 1/46 (2006.01) B60P 3/40 (2006.01) B60P 7/06 (2006.01) B60P 7/135 (2006.01) B65G 67/00 (2006.01)**

[25] EN

[54] **A STOWABLE RACK SYSTEM FOR TRANSPORTING VARIOUS PAYLOADS**

[54] **SYSTEME DE RATELIER ESCAMOTABLE POUR LE TRANSPORT DE DIVERSES CHARGES UTILES**

[72] ENGLISH, JAMES DAVID, CA

[71] ENGLISH LOGISTICS INC., CA

[22] 2023-11-03

[41] 2024-05-03

[30] US (63/422,220) 2022-11-03

[21] **3,218,857**
[13] A1

[51] **Int.Cl. C05G 5/30 (2020.01) C05G 3/90 (2020.01) B01F 27/114 (2022.01) B01F 27/724 (2022.01) B01F 35/71 (2022.01) B01F 35/91 (2022.01) B01F 35/92 (2022.01) C05G 3/00 (2020.01)**

[25] EN

[54] **HEATED AUGER ASSEMBLY AND METHOD OF USE**

[54] **ASSEMBLAGE DE TARIERE CHAUFFEE ET METHODE D'UTILISATION**

[72] MENGEU, BRIAN, US

[72] EDWARDS, TRAVIS, US

[72] PERZANOWSKI, DAVID, US

[72] YOUNG, LESTER WILLIAM, US

[72] PELLE, LOGAN, US

[72] MANGAN, MARK, US

[71] TURF CARE SUPPLY, LLC, US

[22] 2023-11-03

[41] 2024-05-03

[30] US (63/422,211) 2022-11-03

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[21] **3,218,860**
[13] A1

[51] **Int.Cl. B60P 3/32 (2006.01) B62D 25/02 (2006.01) B62D 25/20 (2006.01)**

[25] EN

[54] **MODULAR SYSTEM AND METHOD FOR PRODUCING MOBILE WORKSTATIONS**

[54] **SYSTEME MODULAIRE ET METHODE DE PRODUCTION DE POSTES DE TRAVAIL MOBILES**

[72] JONES, BRYN, CA

[71] AVAN MOBILITY INC., CA

[22] 2023-11-03

[41] 2024-05-04

[30] US (63/422,630) 2022-11-04

[21] **3,218,928**
[13] A1

[51] **Int.Cl. H04W 72/25 (2023.01) H04W 72/04 (2023.01) H04W 74/08 (2024.01) H04W 72/40 (2023.01) H04W 72/56 (2023.01)**

[25] EN

[54] **CHANNEL ACCESS PRIORITY CLASS FOR MULTI-CONSECUTIVE SLOTS SIDELINK TRANSMISSIONS**

[54] **CLASSE DE PRIORITE D~ACCES DE CANAL POUR DES TRANSMISSIONS EN LIAISON LATERALE DE MULTIPLES FENTES CONSECUTIVES**

[72] RASTEGARDOOST, NAZANIN, US

[72] JEON, HYOUNGSUK, US

[72] DINAN, ESMAEL HEJAZI, US

[72] HUI, BING, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2023-11-03

[41] 2024-05-03

[30] US (63/422,391) 2022-11-03

[21] **3,218,930**
[13] A1

[51] **Int.Cl. H04W 72/23 (2023.01) H04W 72/04 (2023.01) H04B 7/0408 (2017.01) H04W 72/232 (2023.01) H04W 72/50 (2023.01)**

[25] EN

[54] **BEAM MANAGEMENT IN MULTIPLE TRANSMISSION AND RECEPTION POINTS**

[54] **GESTION DE FAISCEAU DE MULTIPLES POINTS DE TRANSMISSION ET DE RECEPTION**

[72] CIRIK, ALI CAGATAY, US

[72] DINAN, ESMAEL HEJAZI, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2023-11-03

[41] 2024-05-04

[30] US (63/422,750) 2022-11-04

[21] **3,218,949**
[13] A1

[51] **Int.Cl. B41F 16/02 (2006.01) B41F 17/38 (2006.01) B41M 5/26 (2006.01)**

[25] EN

[54] **COMPUTER PROJECTOR SYSTEM AND METHOD FOR CUSTOM LABELLING APPAREL**

[54] **SYSTEME DE PROJECTEUR INFORMATIQUE ET METHODE D~ETIQUETAGE PERSONNALISE DE VETEMENTS**

[72] CRYSTAL, ADAM, CA

[72] CARKNER, KEVIN, CA

[71] SILVER CRYSTAL GROUP, CA

[22] 2023-11-03

[41] 2024-05-04

[30] US (63/422,898) 2022-11-04

[21] **3,218,980**
[13] A1

[51] **Int.Cl. C08L 101/00 (2006.01) C08K 3/013 (2018.01) C08J 3/20 (2006.01) C08K 3/26 (2006.01) C08L 7/00 (2006.01) C08L 9/02 (2006.01) C08L 9/06 (2006.01) C08L 23/16 (2006.01) E04F 15/16 (2006.01)**

[25] EN

[54] **ECO-SUSTAINABLE COVERING MATERIAL FOR FLOORINGS**

[54] **MATERIAU DE COUVERTURE ECOLOGIQUEMENT DURABLE POUR LES REVETEMENTS DE SOL**

[72] NEDI, IRMA, IT

[72] MARENGHI, ANDREA, IT

[72] STROPPIANA, MAURIZIO, IT

[71] MONDO S.P.A., IT

[22] 2023-11-01

[41] 2024-05-04

[30] IT (102022000022722) 2022-11-04

[21] **3,219,069**
[13] A1

[25] EN

[54] **METHODS AND SYSTEMS FOR COMMUNICATIONS MANAGEMENT**

[54] **METHODES ET SYSTEMES DE GESTION DES COMMUNICATIONS**

[72] PILLAI, RAMASAMY THALAVAY, IN

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2023-11-03

[41] 2024-05-04

[30] US (17/980,717) 2022-11-04

Demandes canadiennes mises à la disponibilité du public
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[21] **3,228,764**

[13] A1

[51] **Int.Cl. G06Q 10/0631 (2023.01) G06Q 10/08 (2023.01) G06Q 50/04 (2012.01) H04L 67/60 (2022.01) H04L 69/06 (2022.01) G05B 19/418 (2006.01) G05D 1/225 (2024.01) G05D 1/648 (2024.01)**

[25] EN

[54] **INTERFACE INTEGRATION METHOD OF INTEGRATING AGV JOB SCHEDULING SYSTEM AND WMS BASED ON DATA TELEGRAM COMMUNICATION**

[54] **METHODE D-INTEGRATION D-INTERFACE POUR INTEGRER UN SYSTEME DE PLANIFICATION DES TACHES DE VEHICULE GUIDE AUTOMATIQUE ET COMMUNICATION AU SYSTEME DE GESTION D-ENTREPOT EN FONCTION DE LA COMMUNICATION DE TELEGRAMME DE DONNEES**

[72] ZHANG, SHENG, CN

[72] QU, HAOYUAN, CN

[72] ZHAO, PENG, CN

[72] XU, BIN, CN

[71] **MACHINERY TECHNOLOGY DEVELOPMENT CO., LTD., CN**

[22] 2024-02-09

[41] 2024-04-30

[30] CN (202310161664.5) 2023-02-24

[21] **3,231,199**

[13] A1

[51] **Int.Cl. H04R 3/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR IMPROVING SUBJECTIVE SOUND RENDERING**

[54] **METHODE ET SYSTEME POUR AMELIORER LE RENDU SONORE SUBJECTIF**

[72] DESMET, LAURENT, CA

[72] AYOTTE, MAXIME, CA

[72] GIGUERE, MARC-ANDRE, CA

[71] CAE INC., CA

[22] 2024-03-06

[41] 2024-05-02

[30] US (18/595,695) 2024-03-05

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[21] **3,182,073**
[13] A1

[51] **Int.Cl. A43D 1/02 (2006.01) A43B 13/36 (2006.01)**

[25] EN

[54] **CHAMELEON SOLE STATION FOOTWEAR APPARATUS**

[54] **APPAREIL DE CHAUSSURE A TALON A SEMELLE CAMELEON**

[72] GOMEZ, ABDUL LUKE, US

[71] GOMEZ, ABDUL LUKE, US

[85] 2022-12-08

[86] 2022-11-01 (PCT/US2022/048528)

[87] (3182073)

[30] US (17/529.024) 2021-11-17

[21] **3,211,942**
[13] A1

[51] **Int.Cl. C22B 3/44 (2006.01) C22B 1/02 (2006.01) C22B 3/22 (2006.01) C22B 13/06 (2006.01) C25C 1/16 (2006.01)**

[25] EN

[54] **METHOD FOR REMOVING CHLORINE IN ZINC HYDROMETALLURGY**

[54] **METHODE D'ELIMINATION DU CHLORE DANS L'HYDROMETALLURGIE DU ZINC**

[72] KIM, MIN CHEOL, KR

[72] CHOI, HEON SIK, KR

[71] KOREA ZINC CO., LTD., KR

[85] 2023-09-12

[86] 2023-04-25 (PCT/KR2023/005611)

[87] (3211942)

[30] KR (10-2022-0145379) 2022-11-03

[21] **3,223,464**
[13] A1

[51] **Int.Cl. C07C 67/08 (2006.01)**

[25] EN

[54] **PROCESS OF PRODUCING HIGHLY PURE ALKYL ACETATES**

[54] **PROCEDE DE PRODUCTION D'ACETATES D'ALKYLE TRES PURS**

[72] KARIMI ALAGHEHBAND, SEPEHR, IR

[71] KARIMI ALAGHEHBAND, SEPEHR, IR

[85] 2023-12-19

[86] 2022-11-02 (PCT/IB2022/060560)

[87] (3223464)

[21] **3,224,100**
[13] A1

[51] **Int.Cl. B65H 35/00 (2006.01) B25J 9/16 (2006.01) B65H 35/06 (2006.01)**

[25] EN

[54] **TAPE MATERIAL APPLICATOR AND COMPUTER PROGRAM**

[54] **APPLICATEUR DE MATERIAU EN RUBAN ET PROGRAMME INFORMATIQUE**

[72] ITO, HIROMOTO, JP

[72] TAKEUCHI, MINORU, JP

[72] TANAKA, YUSUKE, JP

[71] TECHNO OLYMPUS CO. LTD., JP

[85] 2023-12-22

[86] 2022-10-28 (PCT/JP2022/040512)

[87] (3224100)

[21] **3,232,714**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR COVERAGE ENHANCEMENT IN NON TERRESTRIAL NETWORK**

[54] **SYSTEMES ET METHODES POUR L~AMELIORATION DE LA COUVERTURE DANS UN RESEAU NON TERRESTRE**

[72] CUI, FANGYU, CN

[72] ZHANG, NAN, CN

[72] CAO, WEI, CN

[72] LI, JUNLI, CN

[71] ZTE CORPORATION, CN

[85] 2024-03-20

[86] 2022-11-03 (PCT/CN2022/129395)

[87] (3232714)

[21] **3,235,170**
[13] A1

[51] **Int.Cl. B65D 17/28 (2006.01) B65D 17/34 (2006.01) B65D 43/04 (2006.01)**

[25] EN

[54] **CAN END**

[54] **EXTREMITE DE CANETTE**

[72] PIECH, GREGOR ANTON, AT

[71] TOP CAP HOLDING GMBH, AT

[85] 2024-04-12

[86] 2023-10-31 (PCT/EP2023/080332)

[87] (3235170)

[30] DE (102022129193.6) 2022-11-04

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[21] **3,236,295**
[13] A1

[51] **Int.Cl. C08F 6/28 (2006.01)**
[25] EN
[54] **DEVOLATILIZATION OF ETHYLENE/.ALPHA.-OLEFIN COPOLYMER PELLETS**
[54] **DEVOLATILISATION DE PASTILLES DE COPOLYMERE D'ETHYLENE/.ALPHA.-OLEFINE**
[72] NOORJAHAN, ABOLFAZL, CA
[72] SADEGHI, SOHEIL, CA
[72] PIRES FORTES FERREIRA, MARCIA, CA
[72] RAHIMI, MEHRNAZ, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2024-04-23
[86] 2022-12-16 (PCT/IB2022/062418)
[87] (WO2023/119099)

[21] **3,236,374**
[13] A1

[51] **Int.Cl. F16L 37/34 (2006.01) F16L 37/35 (2006.01) F16L 37/36 (2006.01) F16L 59/065 (2006.01) F16L 59/14 (2006.01)**
[25] FR
[54] **COUPLING DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE D'ACCOUPLLEMENT**
[72] COLEIRO, GAETAN, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2024-04-25
[86] 2022-10-07 (PCT/EP2022/077911)
[87] (WO2023/083533)
[30] FR (FR2112047) 2021-11-15

[21] **3,236,388**
[13] A1

[51] **Int.Cl. C07H 15/203 (2006.01) C07D 453/04 (2006.01) C07H 1/00 (2006.01)**
[25] EN
[54] **NOVEL OLIGOSACCHARIDE, MANUFACTURING INTERMEDIATE FOR NOVEL OLIGOSACCHARIDE, AND METHOD FOR MANUFACTURING THESE**
[54] **NOUVEL OLIGOSACCHARIDE, INTERMEDIAIRE DE FABRICATION D'UN NOUVEL OLIGOSACCHARIDE ET PROCEDE DE FABRICATION DE CES DERNIERS**
[72] UEDA, TSUYOSHI, JP
[72] ITOH, RYUSEI, JP
[72] NAKAMURA, TATSUYA, JP
[72] SUZUKI, KEISUKE, JP
[72] NAKANE, SATOSHI, JP
[72] YANG, ZEKUN, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2024-04-25
[86] 2022-10-28 (PCT/JP2022/040346)
[87] (WO2023/074843)
[30] JP (2021-178383) 2021-10-29
[30] JP (2022-005353) 2022-01-17

[21] **3,236,389**
[13] A1

[51] **Int.Cl. C01C 1/04 (2006.01)**
[25] EN
[54] **AMMONIA SYNTHESIS PLANT AND METHOD**
[54] **INSTALLATION ET METHODE DE SYNTHESE D'AMMONIAC**
[72] CANGIOLI, FRANCESCO, IT
[72] GRIMALDI, ANGELO, IT
[72] PELLEGRINI, TIZIANO, IT
[72] MEAZZINI, GIULIA, IT
[72] GUGLIELMO, ALBERTO, IT
[71] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT
[85] 2024-04-25
[86] 2022-10-27 (PCT/EP2022/025487)
[87] (WO2023/078583)
[30] IT (102021000028049) 2021-11-04

[21] **3,236,390**
[13] A1

[51] **Int.Cl. A61K 36/062 (2006.01) A61K 36/899 (2006.01) A61P 3/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING RED YEAST RICE**
[54] **COMPOSITIONS COMPRENANT DE LA LEVURE ROUGE DE RIZ**
[72] GELFI, ELENA, IT
[72] MOSCONI, MANUEL, IT
[72] ZANARDI, ANDREA, IT
[71] MEDA PHARMA S.P.A., IT
[85] 2024-04-25
[86] 2022-10-31 (PCT/EP2022/080337)
[87] (WO2023/073226)
[30] GB (2115617.9) 2021-10-29

[21] **3,236,391**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01)**
[25] EN
[54] **RNA-EDITING COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS D'EDITION D'ARN ET METHODES D'UTILISATION**
[72] SAVVA, YIANNIS, US
[72] DEAN, JASON THADDEUS, US
[72] BOOTH, BRIAN JOHN, US
[72] SULLIVAN, RICHARD THOMAS, US
[72] BRIGGS, ADRIAN WRANGHAM, US
[72] BAGEPALLI, LINA RAJILI, US
[72] ROVIRA GONZALEZ, YAZMIN INES, US
[72] GUO, LAN, US
[71] SHAPE THERAPEUTICS INC., US
[85] 2024-04-25
[86] 2022-10-26 (PCT/US2022/078740)
[87] (WO2023/076967)
[30] US (63/271,889) 2021-10-26
[30] US (63/277,707) 2021-11-10
[30] US (63/284,737) 2021-12-01
[30] US (63/296,955) 2022-01-06
[30] US (63/303,659) 2022-01-27
[30] US (63/306,809) 2022-02-04
[30] US (63/327,380) 2022-04-05
[30] US (63/345,069) 2022-05-24

PCT Applications Entering the National Phase

[21] **3,236,392**
[13] A1

[51] **Int.Cl. E02F 9/02 (2006.01) G06Q 10/20 (2023.01) E02F 9/20 (2006.01) E02F 9/26 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR UNDERCARRIAGE WEAR PREDICTION**

[54] **SYSTEMES ET PROCEDES DE PREDICTION D'USURE DE TRAIN DE ROULEMENT**

[72] MHADBI, NABIL, US

[72] YALAMANCHILI, VIJAY K., US

[72] EGAWA, KO, JP

[72] SUMIYOSHI, TETSUYA, JP

[72] NAITO, TAKAYUKI, JP

[71] CATERPILLAR INC., US

[85] 2024-04-25

[86] 2022-11-01 (PCT/US2022/079018)

[87] (WO2023/081629)

[30] US (17/519,477) 2021-11-04

[21] **3,236,393**
[13] A1

[51] **Int.Cl. H04L 12/28 (2006.01) H04L 69/14 (2022.01)**

[25] EN

[54] **DATA COMMUNICATION IN A MOCA ACCESS NETWORK**

[54] **COMMUNICATION DE DONNEES DANS UN RESEAU D'ACCES MOCA**

[72] SVENSSON, THOMAS, SE

[72] TIAINEN, HELGE, SE

[72] HULDBERG, JOHAN, SE

[71] INCOAX NETWORKS AB, SE

[85] 2024-04-25

[86] 2022-12-02 (PCT/EP2022/084281)

[87] (WO2023/104667)

[30] EP (21212438.2) 2021-12-06

[21] **3,236,394**
[13] A1

[51] **Int.Cl. B60L 50/75 (2019.01) B60L 58/40 (2019.01)**

[25] EN

[54] **EXTENDED RANGE OF FUEL CELL MACHINE**

[54] **GAMME ETENDUE DE MACHINE A PILE A COMBUSTIBLE**

[72] LANE, CAMERON THOMAS, US

[71] CATERPILLAR GLOBAL MINING EQUIPMENT LLC, US

[85] 2024-04-25

[86] 2022-11-01 (PCT/US2022/048502)

[87] (WO2023/081112)

[30] US (17/519,338) 2021-11-04

[21] **3,236,395**
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/50 (2020.01)**

[25] EN

[54] **AEROSOL PROVISION DEVICE**

[54] **DISPOSITIF DE FOURNITURE D'AEROSOL**

[72] MOLLISON-BALL, LOIS, GB

[72] BURGESS, JONATHAN NEIL, GB

[72] THOMAS, MICHAEL, GB

[72] ENGLAND, WILL, GB

[71] NICOVENTURES HOLDINGS LIMITED, GB

[85] 2024-04-25

[86] 2022-10-18 (PCT/EP2022/078983)

[87] (WO2023/072681)

[30] GB (2115370.5) 2021-10-26

[21] **3,236,396**
[13] A1

[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) C07D 401/14 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **CCR6 RECEPTOR MODULATORS**

[54] **MODULATEURS DU RECEPTEUR CCR6**

[72] ALLEMANN, OLIVER, CH

[72] HUBLER, FRANCIS, CH

[72] MEYER, EMMANUEL, CH

[71] IDORSIA PHARMACEUTICALS LTD, CH

[85] 2024-04-25

[86] 2022-10-27 (PCT/EP2022/080045)

[87] (WO2023/073082)

[30] EP (PCT/EP2021/080016) 2021-10-28

[21] **3,236,397**
[13] A1

[51] **Int.Cl. A24F 40/57 (2020.01)**

[25] EN

[54] **AEROSOL PROVISION DEVICE**

[54] **DISPOSITIF DE FOURNITURE D'AEROSOL**

[72] MOLLISON-BALL, LOIS, GB

[72] BURGESS, JONATHAN NEIL, GB

[72] THOMAS, MICHAEL, GB

[72] ENGLAND, WILL, GB

[71] NICOVENTURES HOLDINGS LIMITED, GB

[85] 2024-04-25

[86] 2022-10-18 (PCT/EP2022/078981)

[87] (WO2023/072680)

[30] GB (2115369.7) 2021-10-26

[21] **3,236,398**
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01) A61B 1/267 (2006.01) A61M 16/04 (2006.01)**

[25] EN

[54] **AN OROPHARYNGEAL GLOVE FOR USE WITH RIGID AND FLEXIBLE BRONCHOSCOPES, AND METHODS**

[54] **GANT OROPHARYNGE DESTINE A ETRE UTILISE AVEC DES BRONCHOSCOPES RIGIDES ET FLEXIBLES, ET PROCEDES**

[72] MATUS, ISMAEL, US

[71] SKILLHEAD LLC, US

[85] 2024-04-25

[86] 2022-10-18 (PCT/US2022/078304)

[87] (WO2023/076821)

[30] US (17/511,155) 2021-10-26

[21] **3,236,399**
[13] A1

[51] **Int.Cl. B64D 3/02 (2006.01) B64C 39/02 (2023.01) B64F 1/08 (2006.01)**

[25] EN

[54] **AIRBORNE RECOVERY OF UNMANNED AERIAL VEHICLES**

[54] **RECUPERATION AERIENNE D'ENGINS VOLANTS SANS PILOTE EMBARQUE**

[72] ALLWEIN, MICHAEL, US

[72] KOLLER, KEVIN, US

[72] BYLARD, RYAN, US

[72] HULTENIUS, ROY, US

[71] GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC., US

[85] 2024-04-25

[86] 2021-11-17 (PCT/US2021/059766)

[87] (WO2023/091132)

[21] **3,236,400**
[13] A1

[51] **Int.Cl. A24F 40/57 (2020.01)**

[25] EN

[54] **AEROSOL PROVISION DEVICE**

[54] **DISPOSITIF DE FOURNITURE D'AEROSOL**

[72] MOLLISON-BALL, LOIS, GB

[72] BURGESS, JONATHAN NEIL, GB

[72] THOMAS, MICHAEL, GB

[72] ENGLAND, WILL, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2024-04-25

[86] 2022-10-18 (PCT/EP2022/078988)

[87] (WO2023/072683)

[30] GB (2115367.1) 2021-10-26

Demandes PCT entrant en phase nationale

[21] **3,236,401**
[13] A1

[51] **Int.Cl. B64C 39/02 (2023.01) B64D 3/02 (2006.01) B64F 3/02 (2006.01)**

[25] EN

[54] **AIRBORNE RECOVERY OF UNMANNED AERIAL VEHICLES**

[54] **RECUPERATION AERIENNE D'ENGINS VOLANTS SANS PILOTE EMBARQUE**

[72] ALLWEIN, MICHAEL, US

[72] GROVES, JAMES WILLIAM, US

[72] KOLLER, KEVIN, US

[72] BYLARD, RYAN, US

[72] HULTENIUS, ROY, US

[71] GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC., US

[85] 2024-04-25

[86] 2021-11-17 (PCT/US2021/059780)

[87] (WO2023/091133)

[21] **3,236,402**
[13] A1

[51] **Int.Cl. E21B 23/01 (2006.01) E21B 33/129 (2006.01)**

[25] EN

[54] **ANCHOR MECHANISM**

[54] **MECANISME D'ANCRAGE**

[72] MARTIN, SHANNON, US

[71] VERTICE OIL TOOLS INC., US

[85] 2024-04-25

[86] 2022-11-23 (PCT/EP2022/083039)

[87] (WO2023/094483)

[30] US (17/456,261) 2021-11-23

[30] GB (2117802.5) 2021-12-09

[21] **3,236,403**
[13] A1

[51] **Int.Cl. C12N 15/50 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **A RECOMBINANT CONSTRUCT FOR SCREENING DRUGS AGAINST SARS-COV-2 SPIKE PROTEIN**

[54] **CONSTRUCTION RECOMBINEE POUR LE CRIBLAGE DE MEDICAMENTS CONTRE LA PROTEINE DE SPICULE DU SARS-COV-2**

[72] RAY, UPASANA, IN

[72] TRIPATHI, PREM PRAKASH, IN

[72] BEGUM, FEROZA, IN

[72] SRIVASTAVA, AMIT KUMAR, IN

[71] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN

[85] 2024-04-25

[86] 2022-10-27 (PCT/IN2022/050949)

[87] (WO2023/073733)

[30] IN (202111049482) 2021-10-28

[21] **3,236,404**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 17/04 (2006.01) A61P 25/04 (2006.01) A61P 29/00 (2006.01) A61P 29/02 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **NOVEL NAV1.7 MONOCLONAL ANTIBODY**

[54] **NOUVEL ANTICORPS MONOCLONAL NAV1.7**

[72] YOSHIKAWA, MAI, JP

[72] ONODA, JUNJI, JP

[72] NAKAMORI, DAIKI, JP

[72] TAKAHASHI, TATSUYA, JP

[72] KASAI, ERIKA, JP

[71] SHIONOGI & CO., LTD., JP

[85] 2024-04-25

[86] 2022-10-31 (PCT/JP2022/040580)

[87] (WO2023/074888)

[30] JP (2021-178982) 2021-11-01

[30] JP (2022-005967) 2022-01-18

[21] **3,236,405**
[13] A1

[51] **Int.Cl. B65D 83/46 (2006.01) B65D 83/48 (2006.01) F16J 15/3284 (2016.01) F16K 1/30 (2006.01)**

[25] EN

[54] **VALVE SEAL AND VALVE INCLUDING SAME**

[54] **JOINT DE SOUPAPE ET SOUPAPE COMPRENANT CELUI-CI**

[72] MARTZ, KEVIN ROBERT, US

[72] MCBROOM, JAMES P., US

[71] CLAYTON CORPORATION, US

[85] 2024-04-25

[86] 2022-10-27 (PCT/US2022/048015)

[87] (WO2023/076471)

[30] US (63/272,758) 2021-10-28

[21] **3,236,406**
[13] A1

[51] **Int.Cl. B27N 1/02 (2006.01) C08L 91/00 (2006.01) C08L 97/02 (2006.01)**

[25] EN

[54] **A PROCESS FOR PRODUCING BIO-BASED CYCLIC ANHYDRIDE MONOESTER WOOD ADHESIVES BY USING BIO-BASED POWDER RAW MATERIALS**

[54] **PROCEDE DE PRODUCTION D'UN ADHESIF DE BOIS MONOESTER D'ANHYDRIDE CYCLIQUE D'ORIGINE BIOLOGIQUE A L'AIDE D'UNE MATIERE PREMIERE EN POWDRE D'ORIGINE BIOLOGIQUE**

[72] YUAN, ZHONGSHUN, CA

[72] XU, CHUNBAO, CA

[72] ZHOU, XIA, CN

[72] DENNISE, JOHANNA SOSA CARRERO, CA

[72] WU, WEI, CA

[72] WEI, QIANG, CA

[71] WESTERN MAPLE BIO RESOURCES INC., CA

[85] 2024-04-25

[86] 2021-11-25 (PCT/CN2021/133269)

[87] (WO2023/070800)

[30] CN (202111259550.1) 2021-10-28

PCT Applications Entering the National Phase

[21] **3,236,407**
[13] A1

[51] **Int.Cl. A61K 31/573 (2006.01) A61K 31/57 (2006.01) A61K 38/00 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **PROCESS AND THERAPEUTIC COMPOSITION FOR TREATING AND PREVENTING SEVERE INJECTION SITE REACTIONS**

[54] **PROCEDE ET COMPOSITION THERAPEUTIQUE POUR LE TRAITEMENT ET LA PREVENTION DE REACTIONS GRAVES AU NIVEAU D'UN UN SITE D'INJECTION**

[72] HONG, ZHI, US
[72] MA, JI, US
[72] MARGOLIS, DAVID, US
[72] XU, LIANHONG, US
[72] YAN, LI, US
[71] BRII BIOSCIENCES, INC., US
[85] 2024-04-25
[86] 2022-11-18 (PCT/US2022/080094)
[87] (WO2023/092046)
[30] US (63/281,066) 2021-11-18
[30] US (63/398,221) 2022-08-15

[21] **3,236,408**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C07K 14/705 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **CHIMERIC ADAPTOR POLYPEPTIDES**

[54] **POLYPEPTIDES ADAPTATEURS CHIMERIQUES**

[72] AFTAB, BLAKE T., US
[72] HERRMAN, MARISSA, US
[72] ROMERO, JASON, US
[72] SATPAYEV, DAULET, US
[72] ABBOT, STEWART, US
[72] BHAT, ARUN, US
[72] WONG, JONATHAN, US
[71] ADICET THERAPEUTICS, INC., US
[85] 2024-04-25
[86] 2022-10-27 (PCT/US2022/048097)
[87] (WO2023/076523)
[30] US (63/272,613) 2021-10-27

[21] **3,236,409**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/02 (2006.01) A61B 5/1455 (2006.01) A61M 1/00 (2006.01)**

[25] EN

[54] **QUANTIFYING BLOOD LOSS BY RECIRCULATING WASTE FLUID WITH A MEDICAL WASTE COLLECTION SYSTEM**

[54] **QUANTIFICATION DE LA PERTE DE SANG PAR RECIRCULATION DE DECHETS LIQUIDES AVEC UN SYSTEME DE COLLECTE DE DECHETS MEDICAUX**

[72] FAUL, STEPHEN, IE
[72] NUNAN, GERARD W., IE
[72] ZOLLINGER, MICHAEL, US
[72] MACLACHLAN, BRIAN, US
[72] VANDERWOUDE, BRIAN JAMES, US
[72] NORLAND, LEIF, US
[72] CARROLL, JAMES T., IE
[71] STRYKER CORPORATION, US
[85] 2024-04-25
[86] 2022-10-25 (PCT/US2022/047685)
[87] (WO2023/076235)
[30] US (63/271,763) 2021-10-26

[21] **3,236,410**
[13] A1

[51] **Int.Cl. B01J 8/00 (2006.01) B01J 35/00 (2024.01)**

[25] EN

[54] **DENSE LOADING SYSTEM WITH WAVE LOADER**

[54] **SYSTEME DE CHARGEMENT DENSE A CHARGEUR D'ONDES**

[72] ZAHIROVIC, EMIR, US
[72] ROGATO, MARC ANGELO, US
[72] VISSCHER, RICHARD, US
[71] CATMASTERS, LLC, US
[85] 2024-04-25
[86] 2022-10-25 (PCT/US2022/047762)
[87] (WO2023/076298)
[30] US (63/271,586) 2021-10-25

[21] **3,236,411**
[13] A1

[51] **Int.Cl. B64C 13/22 (2006.01) B64C 13/50 (2006.01)**

[25] EN

[54] **ELECTROMECHANICAL DRIVE SYSTEM FOR AN AIRCRAFT**

[54] **SYSTEME D'ENTRAINEMENT ELECTROMECHANIQUE POUR AERONEF**

[72] ROSATA, PIETRO, IT
[72] ROSSANO, MARIO, IT
[72] LIGNAROLO, VITTORIO, IT
[71] MECAER AVIATION GROUP S.P.A., IT
[85] 2024-04-26
[86] 2022-10-28 (PCT/IB2022/060378)
[87] (WO2023/073629)
[30] IT (102021000027833) 2021-10-29

[21] **3,236,412**
[13] A1

[51] **Int.Cl. E21B 33/128 (2006.01) E21B 33/126 (2006.01) E21B 43/10 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR INCREASING FORCE ON DOWNHOLE TOOL**

[54] **SYSTEME ET PROCEDE SERVANT A AUGMENTER LA FORCE SUR UN OUTIL DE FOND**

[72] BORSCHNECK, SEAN GRAY, CA
[72] MCCARTHY, MATTHEW CARROLL, CA
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-04-24
[86] 2022-10-25 (PCT/US2022/047679)
[87] (WO2023/076230)
[30] US (63/271,778) 2021-10-26

Demandes PCT entrant en phase nationale

[21] **3,236,413**
[13] A1

[51] **Int.Cl. A61M 5/28 (2006.01) A61M 5/315 (2006.01) B65B 7/28 (2006.01) B65B 31/02 (2006.01)**

[25] EN

[54] **STOPPER PLACEMENT IN A SYRINGE**

[54] **PLACEMENT DE BOUCHON DANS UNE SERINGUE**

[72] FALLAHIANBIJAN, FATEMEH, US

[72] ABBAS, SHERMEEN A., US

[72] JU, ALBERT, US

[72] GONZALES, OSCAR, US

[72] PADMAKUMAR, VIKASHNI, US

[72] BROWN, JEFFREY A., US

[72] MISMAR, WAEL, US

[71] AMGEN INC., US

[85] 2024-04-24

[86] 2022-12-02 (PCT/US2022/051598)

[87] (WO2023/102153)

[30] US (63/285,789) 2021-12-03

[21] **3,236,414**
[13] A1

[51] **Int.Cl. A61L 2/20 (2006.01) A61L 9/02 (2006.01)**

[25] EN

[54] **METHODS FOR DESIGNING AND PERFORMING A VAPOR PHASE HYDROGEN PEROXIDE DECONTAMINATION CYCLE**

[54] **PROCEDES DE CONCEPTION ET D'EXECUTION D'UN CYCLE DE DECONTAMINATION DE PEROXYDE D'HYDROGENE EN PHASE VAPEUR**

[72] KRUCHOWY, EVAN, US

[72] PADALA, SAI CHAKRADHAR, US

[72] MARSIGLIO, DANIEL, US

[71] AMGEN INC., US

[85] 2024-04-24

[86] 2022-12-12 (PCT/US2022/052507)

[87] (WO2023/114123)

[30] US (63/288,758) 2021-12-13

[21] **3,236,415**
[13] A1

[51] **Int.Cl. C09K 8/035 (2006.01) C09K 8/54 (2006.01)**

[25] EN

[54] **ACID BASED CORROSION INHIBITOR COMPOSITIONS AND METHODS**

[54] **PROCEDES ET COMPOSITIONS D'INHIBITEUR DE CORROSION A BASE D'ACIDE**

[72] MOLONEY, JEREMY, US

[71] CHAMPIONX LLC, US

[85] 2024-04-24

[86] 2022-10-26 (PCT/US2022/047918)

[87] (WO2023/076413)

[30] US (63/272,443) 2021-10-27

[21] **3,236,416**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01)**

[25] EN

[54] **POLYNUCLEOTIDES FOR MODIFYING ORGANISMS**

[54] **POLYNUCLEOTIDES POUR MODIFIER DES ORGANISMES**

[72] KHAKHAR, ARJUN DEVANG, US

[72] MARTIN, BARRY ANDREW, US

[72] NIU, YAJIE, US

[72] SPRAGUE, DANIEL ALEXANDER, US

[72] CHU, FU CHYUN, US

[72] DENNIS, ELIZABETH JANE ANTONELLI, US

[72] HALAC, MEHMET ALI, US

[72] HAO, YUMENG, US

[72] KLICKI, KEVIN, US

[72] KREMER, JAMES MICHAEL, US

[72] KUMAR, JAYASHREE, US

[72] LIN, CHIEN-YUAN, US

[72] PANT, SHANKAR RAJ, US

[72] ROTHENHEBER, DEREK THOMAS, US

[72] SHARPE, MICHKA GABRIELLE, US

[72] SINGH, ADITYA SUSHIL KUMAR, US

[71] FLAGSHIP PIONEERING INNOVATIONS VII, LLC, US

[85] 2024-04-24

[86] 2022-10-31 (PCT/US2022/078963)

[87] (WO2023/077118)

[30] US (63/274,156) 2021-11-01

[30] US (63/379,063) 2022-10-11

[21] **3,236,417**
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **MONOCLONAL ANTIBODIES AGAINST CARCINOEMBRYONIC ANTIGENS, AND THEIR USES**

[54] **ANTICORPS MONOCLONAUX CONTRE DES ANTIGENES CARCINOEMBRYONNAIRES ET LEURS UTILISATIONS**

[72] ALPER, OZGE, US

[71] AMERICAN DIAGNOSTICS & THERAPY, LLC (ADXR), US

[85] 2024-04-24

[86] 2022-11-04 (PCT/US2022/079296)

[87] (WO2023/081818)

[30] US (63/275,998) 2021-11-05

[30] US (63/336,676) 2022-04-29

[21] **3,236,418**
[13] A1

[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01)**

[25] EN

[54] **PERITONEAL DIALYSIS CYCLER HAVING DISINFECTION**

[54] **CYCLEUR DE DIALYSE PERITONEALE A DESINFECTION**

[72] JANSSON, OLOF, SE

[71] BAXTER INTERNATIONAL INC., US

[71] BAXTER HEALTHCARE SA, CH

[85] 2024-04-24

[86] 2022-11-07 (PCT/US2022/079376)

[87] (WO2023/086764)

[30] US (63/278,290) 2021-11-11

PCT Applications Entering the National Phase

[21] **3,236,419**
[13] A1

[51] **Int.Cl. A61M 1/28 (2006.01) B01D 63/08 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM HAVING A PATIENT LINE FILTER**
[54] **SYSTEME DE DIALYSE PERITONEALE AYANT UN FILTRE EN LIGNE DE PATIENT**
[72] WAGNER, STEFFEN, US
[72] FLIEG, RALF, US
[72] BUCK, REINHOLD, US
[72] BECK, CHRISTOF, US
[72] BLICKLE, RAINER, US
[72] KRAUSE, BERND, US
[72] KNOER, TORSTEN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-24
[86] 2022-11-18 (PCT/US2022/080157)
[87] (WO2023/114612)
[30] US (63/290,855) 2021-12-17

[21] **3,236,420**
[13] A1

[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM WITH A MODULAR FLAT SHEET MEMBRANE FILTER**
[54] **SYSTEME DE DIALYSE PERITONEALE AVEC FILTRE A MEMBRANE A PLAQUE PLATE MODULAIRE**
[72] KUHN, PHILIPP, US
[72] FLIEG, RALF, US
[72] BLICKLE, RAINER, US
[72] WAGNER, STEFFEN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-24
[86] 2022-11-21 (PCT/US2022/080247)
[87] (WO2023/114621)
[30] US (63/291,073) 2021-12-17

[21] **3,236,421**
[13] A1

[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01) B01D 63/08 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM HAVING A PATIENT LINE FILTER**
[54] **SYSTEME DE DIALYSE PERITONEALE AVEC FILTRE DE LIGNE DE PATIENT**
[72] WAGNER, STEFFEN, US
[72] FLIEG, RALF, US
[72] KUHN, PHILIPP, US
[72] BECK, CHRISTOF, US
[72] BLICKLE, RAINER, US
[72] KRAUSE, BERND, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-24
[86] 2022-11-21 (PCT/US2022/080250)
[87] (WO2023/114622)
[30] US (63/291,043) 2021-12-17

[21] **3,236,422**
[13] A1

[51] **Int.Cl. A61K 31/475 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **SMALL MOLECULE DEGRADATION METHODS FOR TREATING ALS/FTD**
[54] **PROCEDES DE DEGRADATION DE PETITES MOLECULES POUR TRAITER D'ALS/FTD**
[72] DISNEY, MATTHEW D., US
[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US
[85] 2024-04-11
[86] 2022-10-27 (PCT/US2022/078830)
[87] (WO2023/077037)
[30] US (63/272,526) 2021-10-27

[21] **3,236,423**
[13] A1

[51] **Int.Cl. A61J 1/10 (2006.01) A61J 1/20 (2006.01)**
[25] EN
[54] **MULTI-CHAMBER BAG FOR PARENTERAL NUTRITION SOLUTIONS**
[54] **POCHE A CHAMBRES MULTIPLES POUR SOLUTIONS DE NUTRITION PARENTERALE**
[72] DESBROSSES, FREDDY, BE
[72] PADULA, PIERPAOLO, BE
[72] BEZIN, JEAN-CLAUDE, BE
[72] DEMULIER, MARIN, BE
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-24
[86] 2022-12-06 (PCT/US2022/081018)
[87] (WO2023/107945)
[30] US (17/543,924) 2021-12-07

[21] **3,236,424**
[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATING ABNORMAL CELL GROWTH**
[54] **METHODES DE TRAITEMENT DE CROISSANCE CELLULAIRE ANORMALE**
[72] STUGLIK, BRIAN M., US
[72] KOUSTENIS, ANDREW, US
[72] PACHTER, JONATHAN A., US
[72] COMA, SILVIA, US
[71] VERASTEM, INC., US
[85] 2024-04-23
[86] 2022-11-02 (PCT/US2022/079109)
[87] (WO2023/081676)
[30] US (63/274,745) 2021-11-02

Demandes PCT entrant en phase nationale

[21] **3,236,425**
[13] A1

[51] **Int.Cl. E21B 23/06 (2006.01) E21B 23/04 (2006.01) E21B 29/10 (2006.01) E21B 33/12 (2006.01) E21B 33/134 (2006.01) E21B 43/116 (2006.01)**

[25] EN

[54] **BALLISTICALLY ACTUATED WELLBORE TOOL**

[54] **OUTIL DE PUIITS DE FORAGE A ACTIONNEMENT BALISTIQUE**

[72] EITSCHBERGER, CHRISTIAN, DE

[72] SCHARF, THILO, IE

[72] BURMEISTER, GERNOT UWE, US

[71] DYNAENERGETICS EUROPE GMBH, DE

[85] 2024-04-24

[86] 2022-10-10 (PCT/EP2022/078043)

[87] (WO2023/072561)

[30] US (63/271,466) 2021-10-25

[30] US (63/347,056) 2022-05-31

[21] **3,236,427**
[13] A1

[51] **Int.Cl. E04G 5/12 (2006.01) E04G 7/26 (2006.01) E04G 7/32 (2006.01)**

[25] EN

[54] **CARRIER RAIL FOR A CLADDING SYSTEM FOR HOUSING SCAFFOLDING, CLADDING SYSTEM, SCAFFOLD AND METHOD FOR HOUSING A SCAFFOLD**

[54] **RAIL DE SUPPORT CONCU POUR UN SYSTEME D'HABILLAGE DESTINE A ENTOURER DES ECHAFAUDAGES, SYSTEME D'HABILLAGE, ECHAFAUDAGE ET PROCEDE POUR ENTOURER UN ECHAFAUDAGE**

[72] WINTER, FRANZ, DE

[71] PERI SE, DE

[85] 2024-04-24

[86] 2022-10-21 (PCT/EP2022/079424)

[87] (WO2023/072767)

[30] DE (10 2021 212 078.4) 2021-10-26

[21] **3,236,432**
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01) C07K 14/575 (2006.01) C07K 14/72 (2006.01)**

[25] EN

[54] **GASTRIC INHIBITORY PEPTIDE RECEPTOR LIGANDS**

[54] **LIGANDS DE RECEPTEUR DU PEPTIDE INHIBITEUR GASTRIQUE**

[72] HAASE, CHRISTIAN, DE

[72] SCHUMANN, ANNE, DE

[72] SCHNEIDER, EBERHARD, DE

[72] OSTERKAMP, FRANK, DE

[72] HOHNE, AILEEN, DE

[72] REINEKE, ULRICH, DE

[72] PASCHKE, MATTHIAS, DE

[72] SMERLING, CHRISTIANE, DE

[72] UNGEWISS, JAN, DE

[72] ZBORALSKI, DIRK, DE

[71] 3B PHARMACEUTICALS GMBH, DE

[85] 2024-04-24

[86] 2022-10-25 (PCT/EP2022/079845)

[87] (WO2023/072971)

[30] EP (21204592.6) 2021-10-25

[21] **3,236,433**
[13] A1

[51] **Int.Cl. C07D 495/22 (2006.01) A61K 31/407 (2006.01) A61P 35/00 (2006.01) C07D 513/22 (2006.01)**

[25] EN

[54] **TRICYCLIC HETEROCYCLES**

[54] **HETEROCYCLES TRICYCLIQUES**

[72] HEINRICH, TIMO, DE

[72] SCHLESIGER, SARAH, DE

[72] GUNERA, JAKUB, DE

[72] PETERSSON, CARL, DE

[72] KOETZNER, LISA, DE

[72] CARSWELL, EMMA, GB

[72] UNZUE LOPEZ, ANDREA, DE

[71] MERCK PATENT GMBH, DE

[71] CANCER RESEARCH TECHNOLOGY LTD., GB

[85] 2024-04-24

[86] 2022-10-26 (PCT/EP2022/079848)

[87] (WO2023/072974)

[30] EP (21205456.3) 2021-10-29

[21] **3,236,438**
[13] A1

[51] **Int.Cl. A61F 2/28 (2006.01) A61B 17/80 (2006.01)**

[25] EN

[54] **CRANIOPLASTY PROSTHESIS AND COMPONENTS THEREFOR**

[54] **PROTHESE DE CRANIOPLASTIE ET COMPOSANTS ASSOCIES**

[72] LAPOINTE, SIMON, CA

[72] IORIO-MORIN, CHRISTIAN, CA

[72] TOUCHETTE, CHARLES, CA

[72] BERGERON, SERGE, CA

[71] SOCPRA SCIENCES ET GENIE S.E.C., CA

[85] 2024-04-24

[86] 2022-10-25 (PCT/CA2022/051571)

[87] (WO2023/070200)

[30] US (63/271,432) 2021-10-25

[21] **3,236,446**
[13] A1

[51] **Int.Cl. B01J 23/83 (2006.01)**

[25] EN

[54] **GRADING SYSTEM OF HYDROGENATION CATALYST AND APPLICATION THEREOF AND GRADING METHOD OF HYDROGENATION CATALYST**

[54] **SYSTEME DE GRADATION ET APPLICATION DE CATALYSEUR D'HYDROGENATION ET PROCEDE DE GRADATION D'UN CATALYSEUR D'HYDROGENATION**

[72] YANG, ZHANLIN, CN

[72] DING, SIJIA, CN

[72] LIU, YI, CN

[72] PENG, SHAOZHONG, CN

[72] WANG, HUIGANG, CN

[72] JIANG, HONG, CN

[72] WANG, JIFENG, CN

[72] WANG, FANGZHAO, CN

[72] WANG, PING, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN

[85] 2024-04-24

[86] 2022-10-24 (PCT/CN2022/127053)

[87] (WO2023/071986)

[30] CN (202111242776.0) 2021-10-25

PCT Applications Entering the National Phase

[21] **3,236,447**
[13] A1

[51] **Int.Cl. C22B 1/14 (2006.01) C22B 3/02 (2006.01)**
[25] EN
[54] **HEAPS FOR HEAP LEACHING**
[54] **TAS POUR LIXIVIATION EN TAS**
[72] FILMER, ANTHONY OWEN, AU
[72] BILEY, CHRISTOPHER ALAN, GB
[72] KEENEY, LUKE MARK, AU
[71] ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD, GB
[71] ANGLO CORPORATE SERVICES SOUTH AFRICA (PTY) LTD, ZA
[85] 2024-04-24
[86] 2022-10-26 (PCT/IB2022/060267)
[87] (WO2023/073568)
[30] US (63/271,980) 2021-10-26

[21] **3,236,448**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **MACHINE LEARNING-BASED USER SELECTION PREDICTION BASED ON SEQUENCE OF PRIOR USER SELECTIONS**
[54] **PREDICTION DE SELECTION UTILISATEUR BASEE SUR L'APPRENTISSAGE MACHINE, A PARTIR D'UNE SEQUENCE DE SELECTIONS UTILISATEUR ANTERIEURES**
[72] SHALABY, WALID, US
[72] MALLAPRAGADA, SRIVATSA, US
[72] XIE, YING, US
[72] CUI, XIQUAN, US
[72] AL JADDA, KHALIFEH, US
[71] HOME DEPOT INTERNATIONAL, INC., US
[85] 2024-04-26
[86] 2022-12-20 (PCT/US2022/053511)
[87] (WO2023/122092)
[30] US (63/291,793) 2021-12-20
[30] US (18/084,324) 2022-12-19

[21] **3,236,449**
[13] A1

[51] **Int.Cl. B62B 7/08 (2006.01) B62B 7/06 (2006.01)**
[25] EN
[54] **FOLDABLE STROLLER**
[54] **POUSSETTE PLIANTE**
[72] DE HAAS, FORTUNATUS JOHANNES, NL
[71] HAAS KRAAN B.V., NL
[85] 2024-04-26
[86] 2022-11-02 (PCT/NL2022/050616)
[87] (WO2023/080780)
[30] NL (2029603) 2021-11-03

[21] **3,236,450**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01) C01B 32/50 (2017.01) B01D 53/62 (2006.01) B01D 53/96 (2006.01) C07C 31/04 (2006.01)**
[25] EN
[54] **CARBON DIOXIDE RECOVERY SYSTEM**
[54] **SYSTEME DE RECUPERATION DE DIOXYDE DE CARBONE**
[72] TACHIBANA, SHINYA, JP
[72] KATSUME, TADASHI, JP
[72] YOSHIDA, KAORI, JP
[72] YONEKAWA, TAKAHITO, JP
[71] MITSUBISHI HEAVY INDUSTRIES, LTD., JP
[85] 2024-04-24
[86] 2022-10-26 (PCT/JP2022/039817)
[87] (WO2023/085086)
[30] JP (2021-184701) 2021-11-12

[21] **3,236,452**
[13] A1

[51] **Int.Cl. B27N 3/02 (2006.01) B27N 3/18 (2006.01) B27N 1/02 (2006.01) B27N 3/10 (2006.01) B27N 3/20 (2006.01)**
[25] EN
[54] **MICROSTRAND INTERFACE LAYER FOR IMPROVED ENGINEERED WOOD PRODUCTS**
[54] **COUCHE D'INTERFACE DE MICRO-COPEAU POUR PRODUITS DERIVES DU BOIS D'INGENIERIE AMELIORES**
[72] MERRICK, GARETH PAUL, US
[72] ST. GERMAIN, BRIAN, US
[71] LOUISIANA-PACIFIC CORPORATION, US
[85] 2024-04-26
[86] 2022-11-08 (PCT/US2022/049291)
[87] (WO2023/081516)
[30] US (63/276,913) 2021-11-08

[21] **3,236,453**
[13] A1

[51] **Int.Cl. C12M 3/00 (2006.01) C12M 3/06 (2006.01)**
[25] EN
[54] **TRIPLY PERIODIC MINIMAL SURFACES FOR 3D PRINTED ORGANS AND TISSUES**
[54] **SURFACES MINIMALES PERIODIQUES TRICOUCHE POUR DES ORGANES ET DES TISSUS IMPRIMES EN 3D**
[72] HURST, GREG, US
[71] LUNG BIOTECHNOLOGY PBC, US
[85] 2024-04-26
[86] 2022-11-07 (PCT/US2022/049127)
[87] (WO2023/081462)
[30] US (63/276,914) 2021-11-08

[21] **3,236,454**
[13] A1

[51] **Int.Cl. A47L 11/40 (2006.01)**
[25] EN
[54] **TORQUE ASSISTED SURFACE MAINTENANCE MACHINE**
[54] **MACHINE D'ENTRETIEN DE SURFACE ASSISTEE PAR COUPLE**
[72] PFINGSTEN, MARK, US
[72] VERHASSELT, ANDREW R., US
[72] LOTT, MATTHEW, US
[71] TENNANT COMPANY, US
[85] 2024-04-26
[86] 2022-11-03 (PCT/US2022/048859)
[87] (WO2023/081302)
[30] US (63/275,400) 2021-11-03

[21] **3,236,455**
[13] A1

[51] **Int.Cl. C11D 1/14 (2006.01) C11D 1/22 (2006.01) C11D 1/37 (2006.01)**
[25] EN
[54] **LIQUID DETERGENT COMPOSITIONS**
[54] **COMPOSITIONS DETERGENTES LIQUIDES**
[72] STENGER, PATRICK CHRISTOPHER, US
[72] AULTMAN, ERIN JULIETTE, US
[72] LOUGHNANE, BRIAN JOSEPH, US
[72] BECKS, VINCENT JOHN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-26
[86] 2022-11-23 (PCT/US2022/080398)
[87] (WO2023/102341)
[30] US (17/541,316) 2021-12-03

Demandes PCT entrant en phase nationale

[21] **3,236,456**
[13] A1

[51] **Int.Cl. H04W 76/30 (2018.01) H04W 74/08 (2024.01) H04W 76/27 (2018.01)**

[25] EN

[54] **SCHEDULING REQUEST AND RANDOM ACCESS TRIGGERING FOR SDT**

[54] **DEMANDE DE PLANIFICATION ET DECLenchement D'ACCES ALEATOIRE POUR SDT**

[72] WU, CHUNLI, CN
[72] TURPINEN, SAMULI HEIKKI, FI
[72] KOSKINEN, JUSSI-PEKKA, FI
[71] NOKIA TECHNOLOGIES OY, FI
[85] 2024-04-26
[86] 2021-10-29 (PCT/CN2021/127514)
[87] (WO2023/070543)

[21] **3,236,457**
[13] A1

[51] **Int.Cl. C11D 1/14 (2006.01) C11D 1/22 (2006.01) C11D 1/37 (2006.01)**

[25] EN

[54] **LIQUID DETERGENT COMPOSITIONS**

[54] **COMPOSITIONS DETERGENTES LIQUIDES**

[72] STENGER, PATRICK CHRISTOPHER, US
[72] AULTMAN, ERIN JULIETTE, US
[72] LOUGHNANE, BRIAN JOSEPH, US
[72] BECKS, VINCENT JOHN, US
[72] VINSON, PHILLIP KYLE, US
[72] WANG, MU, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-26
[86] 2022-11-23 (PCT/US2022/080395)
[87] (WO2023/102339)
[30] US (17/541,312) 2021-12-03

[21] **3,236,461**
[13] A1

[51] **Int.Cl. C23C 28/00 (2006.01) C23C 22/36 (2006.01)**

[25] EN

[54] **SURFACE-TREATED STEEL**

[54] **MATERIAU D'ACIER TRAITE EN SURFACE**

[72] NISHIDA, YOSHIKATSU, JP
[72] SHIMIZU, ATSUO, JP
[72] UENO, SHIN, JP
[72] SHOJI, HIROMASA, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2024-04-26
[86] 2022-11-22 (PCT/JP2022/043202)
[87] (WO2023/090458)
[30] JP (2021-189292) 2021-11-22

[21] **3,236,462**
[13] A1

[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/395 (2006.01) A61K 31/40 (2006.01) A61K 31/403 (2006.01)**

[25] EN

[54] **METHODS OF TREATING AGITATION AND OTHER DEMENTIA-ASSOCIATED BEHAVIORAL SYMPTOMS**

[54] **PROCEDES DE TRAITEMENT D'AGITATION ET D'AUTRES SYMPTOMES COMPORTEMENTAUX ASSOCIES A LA DEMENCE**

[72] MACALLISTER, THOMAS, US
[72] JACOBSON, SVEN, US
[71] WOOLSEY PHARMACEUTICALS, INC., US
[85] 2024-04-26
[86] 2022-11-15 (PCT/US2022/079861)
[87] (WO2023/097151)
[30] US (63/283,696) 2021-11-29

[21] **3,236,464**
[13] A1

[51] **Int.Cl. H01M 50/46 (2021.01) H01M 10/058 (2010.01) H01M 10/0585 (2010.01) H01M 10/647 (2014.01) H01M 50/105 (2021.01) H01M 10/0525 (2010.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR LAMINATING COMPONENTS OF A BATTERY CELL**

[54] **METHODE ET APPAREIL POUR LE REVETEMENT DE COMPOSANTS D'UN ELEMENT DE BATTERIE**

[72] BECKER, ADRIAN, DE
[72] KLEMT, CHRISTIAN, DE
[72] JANSEN, TOBIAS, DE
[72] JORDAN, MARCO, DE
[72] LIPPKY, KRISTIAN, DE
[71] VOLKSWAGEN AKTIENGESELLSCHAFT, DE
[85] 2024-04-26
[86] 2022-10-25 (PCT/EP2022/079801)
[87] (WO2023/072942)
[30] DE (10 2021 128 348.5) 2021-10-29

[21] **3,236,465**
[13] A1

[51] **Int.Cl. A23L 2/04 (2006.01) A23L 2/06 (2006.01) A23L 2/385 (2006.01) A23L 2/39 (2006.01) A23L 2/52 (2006.01) A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 36/185 (2006.01) A61K 47/44 (2017.01)**

[25] EN

[54] **WATER DISPERSIBLE CANNABINOID COMPOSITIONS**

[54] **COMPOSITIONS DE CANNABINOIDES DISPERSIBLES DANS L'EAU**

[72] SCADDING, CAMERON, AU
[71] AQUILA BLACK LIMITED, AU
[85] 2024-04-26
[86] 2022-10-31 (PCT/AU2022/051307)
[87] (WO2023/070170)
[30] AU (2021903467) 2021-10-29

[21] **3,236,466**
[13] A1

[51] **Int.Cl. A61C 9/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR ACQUIRING A DENTAL IMPRESSION BY MEANS OF INTRAORAL DIGITAL SCANNING**

[54] **APPAREIL ET PROCEDE D'ACQUISITION D'UNE EMPREINTE DENTAIRE AU MOYEN D'UN BALAYAGE NUMERIQUE INTRA-BUCCAL**

[72] CROVATO, DIEGO, IT
[72] ABRAMI, GABRIELE, IT
[72] GUIRAO CANO, SERGIO, AD
[71] CROVATO, DIEGO, IT
[71] ABRAMI, GABRIELE, IT
[71] GUIRAO CANO, SERGIO, AD
[85] 2024-04-26
[86] 2022-03-10 (PCT/IB2022/052164)
[87] (WO2023/079373)
[30] IT (102021000027989) 2021-11-03

PCT Applications Entering the National Phase

[21] **3,236,467**
[13] A1

[51] **Int.Cl. C21B 7/10 (2006.01) F27B 3/24 (2006.01) F27D 21/00 (2006.01) G01B 5/00 (2006.01) G01B 17/02 (2006.01) G01N 29/07 (2006.01) G01N 29/22 (2006.01) G01N 29/265 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MEASURING COOLING PLATE THICKNESS IN A BLAST FURNACE**

[54] **SYSTEME ET PROCEDE DE MESURE DE L'EPAISSEUR D'UNE PLAQUE DE REFROIDISSEMENT DANS UN HAUT-FOURNEAU**

[72] LODI, GIORGIO FEDERICO, IT

[71] PAUL WURTH S.A., LU

[85] 2024-04-26

[86] 2022-11-24 (PCT/EP2022/083173)

[87] (WO2023/094545)

[30] LU (LU500898) 2021-11-24

[21] **3,236,469**
[13] A1

[51] **Int.Cl. H04S 7/00 (2006.01)**

[25] EN

[54] **APPARATUS, METHOD AND COMPUTER PROGRAM FOR SYNTHESIZING A SPATIALLY EXTENDED SOUND SOURCE USING ELEMENTARY SPATIAL SECTORS**

[54] **APPAREIL, PROCEDE ET PROGRAMME INFORMATIQUE DE SYNTHESE D'UNE SOURCE SONORE A EXTENSION SPATIALE A L'AIDE DE SECTEURS SPATIAUX ELEMENTAIRES**

[72] WU, YUN-HAN, DE

[72] HERRE, JUERGEN, DE

[72] KOROTIAEV, MIKHAIL, DE

[72] GEIER, MATTHIAS, DE

[72] SCHWAER, SIMON, DE

[72] ADAMI, ALEXANDER, DE

[72] ANEMUELLER, CARLOTTA, DE

[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2024-04-26

[86] 2022-11-07 (PCT/EP2022/080996)

[87] (WO2023/083752)

[30] EP (21207288.8) 2021-11-09

[21] **3,236,470**
[13] A1

[51] **Int.Cl. H01M 10/633 (2014.01) H01M 10/617 (2014.01) H01M 10/6567 (2014.01) H01M 50/204 (2021.01) H01M 10/48 (2006.01)**

[25] FR

[54] **ULTRA HIGH-PERFORMANCE BATTERY MODULE WITH ACTIVE AND DYNAMIC MANAGEMENT OF OPERATING TEMPERATURE AND PRESSURE**

[54] **MODULE DE BATTERIE ULTRA PERFORMANT AVEC GESTION ACTIVE ET DYNAMIQUE DE PRESSION ET DE TEMPERATURE D'OPERATION**

[72] MONTAMBAULT, SERGE, CA

[71] HYDRO-QUEBEC, CA

[85] 2024-04-26

[86] 2022-10-19 (PCT/CA2022/051538)

[87] (WO2023/081993)

[30] CA (3139110) 2021-11-10

[21] **3,236,473**
[13] A1

[51] **Int.Cl. G06Q 30/0601 (2023.01) G06Q 30/0204 (2023.01)**

[25] EN

[54] **SYSTEM FOR DYNAMICALLY GENERATING RECOMMENDATIONS TO PURCHASE SUSTAINABLE ITEMS**

[54] **SYSTEME DE GENERATION DYNAMIQUE DE RECOMMANDATIONS POUR L'ACHAT D'ARTICLES DURABLES**

[72] AMES, BRIAN SHAW, US

[71] STARBUCKS CORPORATION, US

[85] 2024-04-26

[86] 2022-12-13 (PCT/US2022/052703)

[87] (WO2023/121920)

[30] US (63/265,760) 2021-12-20

[21] **3,236,477**
[13] A1

[51] **Int.Cl. B65G 47/22 (2006.01)**

[25] EN

[54] **PALLET CENTERING DEVICE**

[54] **DISPOSITIF DE CENTRAGE DE PALETTE**

[72] WIGINGTON, DAKOTA, US

[72] LEWIS, CODY M., US

[72] BOWERS, GARY, US

[71] UNITED STATES GYPSUM COMPANY, US

[85] 2024-04-26

[86] 2022-10-31 (PCT/US2022/078974)

[87] (WO2023/081619)

[30] US (17/453,766) 2021-11-05

[21] **3,236,480**
[13] A1

[51] **Int.Cl. H01M 10/0569 (2010.01) H01M 10/052 (2010.01)**

[25] EN

[54] **ELECTROLYTE FOR LITHIUM-SULFUR BATTERY AND LITHIUM-SULFUR BATTERY COMPRISING THE SAME**

[54] **ELECTROLYTE POUR UNE BATTERIE AU LITHIUM-SOUFRE ET BATTERIE AU LITHIUM-SOUFRE COMPRENANT L'ELECTROLYTE**

[72] KWACK, HO-BEOM, KR

[72] LEE, JAE-GIL, KR

[72] LEE, CHANG-HOON, KR

[71] LG ENERGY SOLUTION, LTD., KR

[85] 2024-04-26

[86] 2023-01-25 (PCT/KR2023/001147)

[87] (WO2024/048874)

[30] KR (10-2022-0110382) 2022-08-31

Demandes PCT entrant en phase nationale

[21] **3,236,482**
[13] A1

[51] **Int.Cl. C08B 37/04 (2006.01) A61K 47/61 (2017.01) C08J 3/075 (2006.01)**

[25] EN

[54] **MODIFIED ALGINATES AND METHODS OF MAKING AND USING THEREOF**

[54] **ALGINATES MODIFIES ET PROCEDES DE FABRICATION ET D'UTILISATION ASSOCIES**

[72] BRUDNO, YEVGENY, US

[72] MOODY, CHRISTOPHER, US

[71] NORTH CAROLINA STATE UNIVERSITY, US

[85] 2024-04-26

[86] 2022-10-28 (PCT/US2022/078944)

[87] (WO2023/077112)

[30] US (63/272,975) 2021-10-28

[30] US (63/288,906) 2021-12-13

[21] **3,236,483**
[13] A1

[51] **Int.Cl. A23L 2/04 (2006.01) A23L 2/06 (2006.01) A23L 2/39 (2006.01)**

[25] EN

[54] **WATER DISPERSIBLE BOTANICAL COMPOSITIONS**

[54] **COMPOSITIONS BOTANIQUES DISPERSIBLES DANS L'EAU**

[72] SCADDING, CAMERON, AU

[71] AQUILA BLACK LIMITED, AU

[85] 2024-04-26

[86] 2022-10-31 (PCT/AU2022/051311)

[87] (WO2023/070172)

[30] AU (2021903468) 2021-10-29

[21] **3,236,486**
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01) G06Q 20/40 (2012.01) G06N 20/00 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR IMPROVED DETECTION OF NETWORK ATTACKS**

[54] **SYSTEMES ET PROCEDES DE DETECTION AMELIOREE D'ATTAQUES DE RESEAU**

[72] AFZAL, SAYED AMIN, US

[71] MASTERCARD INTERNATIONAL INCORPORATED, US

[85] 2024-04-26

[86] 2022-10-28 (PCT/US2022/048160)

[87] (WO2023/076553)

[30] US (63/273,672) 2021-10-29

[21] **3,236,489**
[13] A1

[51] **Int.Cl. C22C 21/02 (2006.01) C22C 21/04 (2006.01) C22C 21/14 (2006.01) C22C 21/16 (2006.01) C22F 1/04 (2006.01) C22F 1/043 (2006.01) C22F 1/05 (2006.01) C22F 1/057 (2006.01)**

[25] EN

[54] **STRIP MADE OF 6XXX ALLOY AND MANUFACTURING PROCESS**

[54] **BANDE EN ALLIAGE 6XXX ET PROCEDE DE FABRICATION**

[72] GUIGLIONDA, GILLES, FR

[72] LANGILLE, MICHAEL, FR

[72] LI, JICHAO, US

[71] CONSTELLIUM MUSCLE SHOALS LLC, US

[71] CONSTELLIUM NEUF-BRISACH, FR

[85] 2024-04-26

[86] 2022-11-23 (PCT/FR2022/052168)

[87] (WO2023/094773)

[30] FR (FR2112544) 2021-11-25

[21] **3,236,492**
[13] A1

[51] **Int.Cl. F04B 53/04 (2006.01) F04B 53/06 (2006.01) F04B 53/16 (2006.01) F04B 53/22 (2006.01) F04D 29/08 (2006.01) F04D 29/42 (2006.01) F04D 29/62 (2006.01) F04D 29/70 (2006.01)**

[25] EN

[54] **PUMP DEVICE COMPRISING A SCREW PLUG**

[54] **DISPOSITIF DE POMPE COMPRENANT UN BOUCHON A VIS**

[72] BRUHLMANN, DIETER, CH

[71] FRIDECO AG, CH

[85] 2024-04-26

[86] 2022-06-15 (PCT/EP2022/066382)

[87] (WO2023/072438)

[30] DE (20 2021 105 881.1) 2021-10-27

[21] **3,236,493**
[13] A1

[51] **Int.Cl. G21C 7/117 (2006.01) G21C 7/10 (2006.01) G21C 7/11 (2006.01) G21C 7/12 (2006.01) G21C 7/14 (2006.01)**

[25] EN

[54] **CONTROL ROD REMOTE DISCONNECT MECHANISM**

[54] **MECANISME DE SEPARATION A DISTANCE DE TIGE DE COMMANDE**

[72] SHARGOTS, SCOTT J., US

[72] ZIEGLER, RYAN Z., US

[72] BROWN, JASON C., US

[72] HASLET, DAVID K., US

[72] FLEMING, EMILY D., US

[71] BWXT ADVANCED TECHNOLOGIES LLC, US

[85] 2024-04-26

[86] 2022-10-31 (PCT/US2022/048446)

[87] (WO2023/076682)

[30] US (63/273,687) 2021-10-29

[21] **3,236,496**
[13] A1

[51] **Int.Cl. F24F 7/06 (2006.01) F24F 11/74 (2018.01) F24F 13/06 (2006.01)**

[25] EN

[54] **HVAC EFFICIENCY BOOSTING FAN SYSTEM, APPARATUS AND METHOD**

[54] **SYSTEME, APPAREIL ET PROCEDE POUR VENTILATEUR D'AMELIORATION D'EFFICACITE DE CVC**

[72] RAEESI, KAVEH, CA

[72] MIRDAMADI, SEYED EHSAN, CA

[71] SMART COCOON INC., CA

[85] 2024-04-26

[86] 2022-10-31 (PCT/CA2022/051604)

[87] (WO2023/070226)

[30] US (63/273,385) 2021-10-29

[21] **3,236,497**
[13] A1

[51] **Int.Cl. C05B 7/00 (2006.01) C05G 3/20 (2020.01) C05G 3/30 (2020.01) C05C 1/00 (2006.01)**

[25] EN

[54] **AGRICULTURAL COMPOSITION**

[54] **COMPOSITION AGRICOLE**

[72] WARD, STUART, GB

[72] HATHWAY, LAURA, GB

[71] YARA UK LIMITED, GB

[85] 2024-04-26

[86] 2022-11-14 (PCT/EP2022/081750)

[87] (WO2023/088832)

[30] GB (2116729.1) 2021-11-19

PCT Applications Entering the National Phase

[21] **3,236,498**
[13] A1

[51] **Int.Cl. C09D 5/02 (2006.01) C09D 7/45 (2018.01) C09D 127/16 (2006.01)**

[25] EN

[54] **WATERBORNE POLYVINYLIDENE DIFLUORIDE COATING COMPOSITIONS**

[54] **COMPOSITIONS DE REVETEMENT A BASE DE DIFLUORURE DE POLYVINYLIDENE A L'EAU**

[72] GAO, PENG, CN
[72] SHEN, CHENG, CN
[72] HE, MEIJIA, CN
[72] SHEN, CHENBO, CN
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-04-26
[86] 2021-11-05 (PCT/CN2021/128873)
[87] (WO2023/077398)

[21] **3,236,499**
[13] A1

[51] **Int.Cl. A23L 5/10 (2016.01)**

[25] EN

[54] **FOOD STEAMING APPARATUS AND FOOD PROCESSING SYSTEM**

[54] **APPAREIL DE CUISSON A LA VAPEUR D'ALIMENTS ET SYSTEME DE TRANSFORMATION D'ALIMENTS**

[72] MOON, SUNG YANG, KR
[72] JEONG, DOO SEONG, KR
[72] KIM, HAK NYOUN, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2024-04-26
[86] 2022-07-19 (PCT/KR2022/010511)
[87] (WO2023/075088)
[30] KR (10-2021-0145509) 2021-10-28

[21] **3,236,500**
[13] A1

[51] **Int.Cl. C03B 7/00 (2006.01) C03B 9/16 (2006.01) C03B 9/193 (2006.01) C03B 9/353 (2006.01) C03B 9/41 (2006.01) G05B 19/00 (2006.01)**

[25] EN

[54] **DIRECT LOADING OF GLASS GOBS INTO TRAVERSABLE BLANK MOLDS**

[54] **CHARGEMENT DIRECT DE GOUTTES DE VERRE DANS DES MOULES EBAUCHEURS POUVANT ETRE TRAVERSES**

[72] MOHR, PAUL, US
[72] HOLMES-LIBBIS, JOHN, US
[72] ALTENDORFER, BERNHARD, DE
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2024-04-26
[86] 2022-11-04 (PCT/US2022/049000)
[87] (WO2023/081385)
[30] US (63/276,210) 2021-11-05

[21] **3,236,501**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/16 (2006.01) C12N 5/04 (2006.01)**

[25] EN

[54] **ALBUMIN PROTEIN FOR USE AS AN EMULSIFIER AND DRUG CARRIER**

[54] **PROTEINE D'ALBUMINE DESTINEE A ETRE UTILISEE EN TANT QU'EMULSIFIANT ET VECTEUR DE MEDICAMENT**

[72] JAFFEE, ARTHUR, US
[72] SCHULTZ, DAN, AU
[71] ECS BRANDS, LTD., US
[85] 2024-04-26
[86] 2022-10-26 (PCT/US2022/047934)
[87] (WO2023/076425)
[30] US (63/272,088) 2021-10-26

[21] **3,236,502**
[13] A1

[51] **Int.Cl. B64U 20/50 (2023.01) B64U 10/14 (2023.01) B64U 20/70 (2023.01) B64U 70/50 (2023.01)**

[25] EN

[54] **MODULAR ROTORCRAFT AND SYSTEM FOR AIR-DELIVERED EFFECTS OR SENSOR PAYLOADS**

[54] **GIRAVION MODULAIRE ET SYSTEME POUR DES EFFETS DISTRIBUES PAR L'AIR OU DES CHARGES UTILES DE CAPTEUR**

[72] VELAZQUEZ, MATTHEW T., US
[72] BLONDE, JAMES GARD, US
[72] CASKEY, BRIAN REISSNER, US
[72] BAITY, SEAN MARSHALL, US
[71] TEXTRON SYSTEMS CORPORATION, US
[85] 2024-04-26
[86] 2022-10-26 (PCT/US2022/047804)
[87] (WO2023/076327)
[30] US (63/272,398) 2021-10-27

[21] **3,236,503**
[13] A1

[51] **Int.Cl. F04D 29/10 (2006.01) F04D 17/12 (2006.01) F04D 19/02 (2006.01)**

[25] EN

[54] **CONICAL SEALING ASSEMBLY FOR A ROTARY EQUIPMENT AND ROTARY EQUIPMENT COMPRISING THE SEALING ASSEMBLY**

[54] **ENSEMBLE D'ETANCHEITE CONIQUE POUR EQUIPEMENT ROTATIF ET EQUIPEMENT ROTATIF DOTE DUDIT ENSEMBLE D'ETANCHEITE**

[72] GAMBERI, FRANCESCO, IT
[72] BERGAMINI, LORENZO, IT
[72] RIZZO, EMANUELE, IT
[72] MASI, GUIDO, IT
[71] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT
[85] 2024-04-26
[86] 2022-11-01 (PCT/EP2022/025490)
[87] (WO2023/088579)
[30] IT (102021000028247) 2021-11-05

Demandes PCT entrant en phase nationale

[21] **3,236,504**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS TARGETING INTERLEUKIN-34**
[54] **COMPOSES ET PROCEDES CIBLANT L'INTERLEUKINE-34**
[72] CHEDID, MARCIO, US
[72] FLEISHER, ADAM S., US
[72] LANNAN, MEGAN BRITTANY, US
[72] LO, ALBERT, US
[72] MINTUN, MARK, US
[72] OBUNGU, VICTOR H., US
[72] RAINES, SARAH ELISABETH, US
[72] SIMS, JOHN RANDALL II, US
[72] SKORA, ANDREW DIXON, US
[72] WALSH, ROBIN ELIZABETH, US
[72] WEST, ELIZABETH ANNE, US
[72] YE, MING, US
[71] ELI LILLY COMPANY, US
[85] 2024-04-26
[86] 2022-10-27 (PCT/US2022/078745)
[87] (WO2023/076971)
[30] US (63/273,204) 2021-10-29

[21] **3,236,505**
[13] A1

[51] **Int.Cl. B66C 1/00 (2006.01) H02G 1/00 (2006.01) H02G 1/02 (2006.01) H02G 1/04 (2006.01) H02G 7/00 (2006.01) H02G 7/02 (2006.01) H02G 7/04 (2006.01) H02G 7/05 (2006.01) H02G 3/34 (2006.01) H02G 7/12 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR TEMPORARILY SUSPENDING CONDUCTORS**
[54] **APPAREIL ET PROCEDE DE SUSPENSION TEMPORAIRE DE CONDUCTEURS**
[72] HARVEY, BENJAMIN JAMES, US
[72] O'CONNELL, DANIEL NEIL, CA
[72] JODOIN, RAYMOND HENRY, CA
[71] QUANTA ASSOCIATES, L.P., US
[85] 2024-04-26
[86] 2022-10-27 (PCT/US2022/048040)
[87] (WO2023/076487)
[30] US (63/272,468) 2021-10-27
[30] CA (3,135,940) 2021-10-27

[21] **3,236,506**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06Q 30/0203 (2023.01)**
[25] EN
[54] **BOT DETECTION FOR A SURVEY PLATFORM**
[54] **DETECTION DE ROBOT POUR UNE PATEFORME D'ETUDE**
[72] MANSFIELD, WILLIAM SHAWN, US
[72] MARKS, JARED SCOTT, US
[72] PRESCOTT, BROCK CARRINGTON, US
[72] HOFFMAN, AMANDA, US
[72] KREPPS, ZACHARY, US
[72] GAUCHAT, NICOLAS, US
[72] SAVAR, ALBERT AVI, US
[72] BRITTON, MATTHEW, US
[71] SUZY, INC., US
[85] 2024-04-26
[86] 2022-10-26 (PCT/US2022/047886)
[87] (WO2023/076389)
[30] US (63/272,129) 2021-10-26

[21] **3,236,507**
[13] A1

[51] **Int.Cl. G21C 7/10 (2006.01) G21C 1/08 (2006.01) G21C 3/22 (2006.01) G21C 7/16 (2006.01) G21C 15/08 (2006.01)**
[25] EN
[54] **CONTROL ROD REMOTE HOLDOUT MECHANISM**
[54] **MECANISME DE RETENUE A DISTANCE DE TIGE DE COMMANDE**
[72] SHARGOTS, SCOTT J., US
[72] ZIEGLER, RYAN Z., US
[72] FLEMING, EMILY D., US
[72] BROWN, JASON C., US
[71] BWXT ADVANCED TECHNOLOGIES LLC, US
[85] 2024-04-26
[86] 2022-10-31 (PCT/US2022/048431)
[87] (WO2023/076676)
[30] US (63/273,700) 2021-10-29

[21] **3,236,508**
[13] A1

[51] **Int.Cl. H02S 20/32 (2014.01) H02S 20/10 (2014.01)**
[25] EN
[54] **TERRAIN FOLLOWING SOLAR TRACKER**
[54] **SUIVEUR SOLAIRE SUIVANT LE TERRAIN**
[72] MORIN, JACOB MARK, US
[72] KRESSE, DAVID E., US
[72] ABRAHAM, DANIEL Y., US
[72] CARIDE, ANGEL GALVAN, ES
[72] VADAKAPURAM, JEEVAN, IN
[71] NEXTRACKER LLC, US
[85] 2024-04-26
[86] 2022-11-17 (PCT/US2022/050312)
[87] (WO2023/091605)
[30] US (63/280,990) 2021-11-18

[21] **3,236,509**
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01) A61F 2/30 (2006.01) A61F 2/38 (2006.01) A61F 2/46 (2006.01)**
[25] FR
[54] **TIBIAL COMPONENT OF ENDOPROSTHETIC KNEE IMPLANT, KITS AND INSTRUMENTS THEREFORE, AND METHODS OF USE**
[54] **COMPONENT TIBIAL D'UN IMPLANT DE GENOU ENDOPROTHETIQUE, KITS ET INSTRUMENTS ASSOCIES, ET METHODES D'UTILISATION**
[72] HARRIS, BRIAN R. JR., US
[71] MICROPORT ORTHOPEDICS INC., US
[85] 2024-04-26
[86] 2022-11-08 (PCT/US2022/079430)
[87] (WO2023/091863)
[30] US (63/264,332) 2021-11-19
[30] US (18/053,196) 2022-11-07

PCT Applications Entering the National Phase

[21] **3,236,510**
[13] A1

[51] **Int.Cl. G21C 7/10 (2006.01) G21C 7/117 (2006.01) G21C 7/12 (2006.01) G21C 9/02 (2006.01) G21C 7/14 (2006.01) G21C 7/16 (2006.01) G21C 19/10 (2006.01) G21C 19/12 (2006.01)**

[25] EN

[54] **CONTROL ROD REMOTE HOLDOUT MECHANISM**

[54] **MECANISME DE RETENUE A DISTANCE DE TIGE DE COMMANDE**

[72] SHARGOTS, SCOTT J., US

[72] ZIEGLER, RYAN Z., US

[72] FLEMING, EMILY D., US

[71] BWXT ADVANCED TECHNOLOGIES LLC, US

[85] 2024-04-26

[86] 2022-10-31 (PCT/US2022/048423)

[87] (WO2023/076674)

[30] US (63/273,694) 2021-10-29

[21] **3,236,511**
[13] A1

[51] **Int.Cl. A61B 6/00 (2024.01) G06T 11/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR GENERATING A CORRECTED PLANAR SCINTIGRAPHY IMAGE (CPSI)**

[54] **SYSTEMES ET PROCEDES DE GENERATION D'UNE IMAGE DE SCINTIGRAPHIE PLANE CORRIGEE (CPSI)**

[72] SCHMIDTLEIN, ROSS, US

[72] XU, YUSEHENG, US

[72] KROL, ANDRZEJ, US

[72] GIFFORD, HOWARD, US

[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US

[71] MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES, US

[71] SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, US

[85] 2024-04-26

[86] 2022-10-26 (PCT/US2022/047929)

[87] (WO2023/076422)

[30] US (63/272,603) 2021-10-27

[21] **3,236,513**
[13] A1

[51] **Int.Cl. C10G 45/12 (2006.01) C10G 1/10 (2006.01) C10G 45/06 (2006.01) C10G 45/10 (2006.01) C10G 45/36 (2006.01) C10G 45/40 (2006.01) C10G 45/48 (2006.01) C10G 45/52 (2006.01) C10G 45/54 (2006.01) C10G 65/06 (2006.01) C10G 65/08 (2006.01)**

[25] EN

[54] **PROCESS FOR PURIFYING A PYROLYSIS OIL**

[54] **PROCEDE DE PURIFICATION D'UNE HUILE DE PYROLYSE**

[72] LANGE DE OLIVEIRA, ARMIN, DE

[72] HIEBER, GISELA, DE

[72] PILARSKI, OLIVER, DE

[72] LOEBNITZ, LISA, DE

[72] KOEPKE, DANIEL, DE

[72] MEYER-KIRSCHNER, JULIAN, DE

[72] MUELLER, CHRISTIAN, DE

[72] HAAG, MONICA, DE

[72] SCHREIBER, MICHAEL, DE

[72] FEYEN, MATHIAS, DE

[72] VITYUK, ARTEM D, US

[72] KARWACKI, LUKASZ, DE

[72] REESINK, BERNARD, NL

[71] BASF SE, DE

[85] 2024-04-26

[86] 2022-10-26 (PCT/EP2022/080004)

[87] (WO2023/073059)

[30] EP (21205105.6) 2021-10-27

[21] **3,236,514**
[13] A1

[51] **Int.Cl. G06F 16/23 (2019.01) G06F 8/34 (2018.01) G06F 8/35 (2018.01) G06F 8/36 (2018.01) G06F 40/131 (2020.01) G06F 40/143 (2020.01)**

[25] EN

[54] **A SOFTWARE DEVELOPMENT PLATFORM**

[54] **PLATE-FORME DE DEVELOPPEMENT LOGICIEL**

[72] QIAN, PAUL, AU

[72] DAI, QIN, AU

[71] EVERLAST TECHNOLOGY PTY LTD, AU

[85] 2024-04-26

[86] 2022-10-28 (PCT/AU2022/051298)

[87] (WO2023/070162)

[30] AU (2021903463) 2021-10-29

[21] **3,236,516**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) A61B 7/00 (2006.01)**

[25] EN

[54] **METHOD AND AN ELECTRONIC DEVICE FOR PROCESSING A WAVEFORM**

[54] **PROCEDE ET DISPOSITIF ELECTRONIQUE DE TRAITEMENT D'UNE FORME D'ONDE**

[72] SHPAK, YAROSLAV, UA

[72] DAVYDOV, MAKSIM, BY

[71] SPARROW ACOUSTICS INC., CA

[85] 2024-04-26

[86] 2022-10-26 (PCT/CA2022/051588)

[87] (WO2023/070212)

[30] US (63/271,997) 2021-10-26

[21] **3,236,517**
[13] A1

[51] **Int.Cl. H04B 7/06 (2006.01) H04W 24/02 (2009.01) H04L 5/00 (2006.01)**

[25] EN

[54] **INFORMATION TRANSMISSION METHOD, DEVICE, AND STORAGE MEDIUM**

[54] **PROCEDE DE TRANSMISSION D'INFORMATIONS, DISPOSITIF ET SUPPORT DE STOCKAGE**

[72] LI, YONG, CN

[72] WU, HAO, CN

[72] LU, ZHAOHUA, CN

[72] WANG, YUXIN, CN

[71] ZTE CORPORATION, CN

[85] 2024-04-26

[86] 2022-10-28 (PCT/CN2022/128287)

[87] (WO2023/078176)

[30] CN (202111301957.6) 2021-11-04

Demandes PCT entrant en phase nationale

[21] **3,236,520**
[13] A1

[51] **Int.Cl. C21D 8/02 (2006.01) C21D 9/46 (2006.01) C22C 22/00 (2006.01) C22C 30/00 (2006.01)**

[25] EN

[54] **AUSTENITIC STEEL HAVING EXCELLENT ULTRA-LOW TEMPERATURE TOUGHNESS IN WELD HEAT-AFFECTED ZONE, AND MANUFACTURING METHOD THEREFOR**

[54] **ACIER AUSTENITIQUE AYANT UNE EXCELLENTE RESISTANCE AU FROID EXTREME DANS UNE ZONE DE SOUDAGE THERMIQUEMENT AFFECTEE, ET SON PROCEDE DE FABRICATION**

[72] LEE, SOON-GI, KR
[72] CHOI, JONG-KYO, KR
[72] KANG, SANG-DEOK, KR
[71] POSCO CO., LTD, KR
[85] 2024-04-26
[86] 2022-12-20 (PCT/KR2022/020834)
[87] (WO2023/121221)
[30] KR (10-2021-0184271) 2021-12-21

[21] **3,236,522**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/17 (2006.01) A61K 38/18 (2006.01) A61P 35/00 (2006.01) C07K 16/22 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS OF USING ANTI-EGF ANTIBODIES TO AUGMENT THE ACTIVITY OF BRAF AND KRAS INHIBITORS**

[54] **METHODES D'UTILISATION D'ANTICORPS ANTI-EGF POUR AUGMENTER L'ACTIVITE D'INHIBITEURS DE BRAF ET DE KRAS**

[72] D'HONDT, ERIK, BE
[72] MOLINA-VILA, MIGUEL ANGEL, ES
[71] IN3BIO LTD., BM
[71] D'HONDT, ERIK, BE
[71] MOLINA-VILA, MIGUEL ANGEL, ES
[85] 2024-04-26
[86] 2022-10-28 (PCT/IB2022/000655)
[87] (WO2023/073429)
[30] US (63/272,822) 2021-10-28

[21] **3,236,523**
[13] A1

[51] **Int.Cl. A61B 5/1468 (2006.01) A61B 5/1486 (2006.01)**

[25] EN

[54] **ELECTRODE SYSTEMS FOR ELECTROCHEMICAL SENSORS**

[54] **SYSTEMES D'ELECTRODES POUR CAPTEURS ELECTROCHIMIQUES**

[72] KIANI, MASSI JOE E., US
[72] VO, HUNG THE, US
[72] PAULEY, KEVIN HUGHES, US
[72] KRISHNAMANI, VENKATRAMANAN, US
[71] WILLOW LABORATORIES, INC., US
[85] 2024-04-26
[86] 2022-10-27 (PCT/US2022/078818)
[87] (WO2023/077027)
[30] US (63/263,277) 2021-10-29

[21] **3,236,524**
[13] A1

[51] **Int.Cl. H04W 24/08 (2009.01) H04W 4/20 (2018.01) H04W 4/50 (2018.01)**

[25] EN

[54] **METHOD FOR OBTAINING DATA ANALYTICS RESULT AND COMMUNICATION APPARATUS**

[54] **PROCEDE D'OBTENTION DE RESULTAT D'ANALYSE DE DONNEES ET APPAREIL DE COMMUNICATION**

[72] FENG, ZHAO, CN
[72] XIN, YANG, CN
[72] WANG, YUAN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-04-26
[86] 2022-10-11 (PCT/CN2022/124495)
[87] (WO2023/071770)
[30] CN (202111257298.0) 2021-10-27
[30] CN (202210316850.7) 2022-03-28

[21] **3,236,525**
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/30 (2006.01) A61K 8/368 (2006.01) A61K 8/42 (2006.01) A61K 8/46 (2006.01) A61K 8/49 (2006.01) A61K 8/73 (2006.01) A61Q 5/02 (2006.01) C07C 63/08 (2006.01) C07C 233/05 (2006.01) C07C 309/17 (2006.01) C07C 309/30 (2006.01) C11D 17/00 (2006.01) C11D 17/06 (2006.01)**

[25] EN

[54] **SHAMPOO IN SOLID FORM TO BE RECONSTITUTED IN AN AQUEOUS ENVIRONMENT**

[54] **SHAMPOOING SOUS FORME SOLIDE A RECONSTITUER DANS UN ENVIRONNEMENT AQUEUX**

[72] FORTIN, SOPHIE, CA
[71] LES SOLUTIONS ZERO DECHET FILLGOOD INC., CA
[85] 2024-04-26
[86] 2022-10-24 (PCT/CA2022/051567)
[87] (WO2023/070198)
[30] US (63/271,767) 2021-10-26
[30] US (63/338,516) 2022-05-05

[21] **3,236,528**
[13] A1

[51] **Int.Cl. G06V 10/26 (2022.01) G06V 10/422 (2022.01) G06V 10/44 (2022.01) G06V 10/771 (2022.01) G06V 10/80 (2022.01)**

[25] EN

[54] **METHODS, STORAGE MEDIA, AND SYSTEMS FOR GENERATING A THREE-DIMENSIONAL LINE SEGMENT**

[54] **PROCEDES, SUPPORTS DE STOCKAGE ET SYSTEMES POUR GENERER UN SEGMENT DE LIGNE TRIDIMENSIONNEL**

[72] HE, HONGYUAN, US
[72] BARBHAIYA, HARSH, US
[72] SOMMERS, JEFFREY, US
[71] HOVER INC., US
[85] 2024-04-26
[86] 2022-10-25 (PCT/US2022/078673)
[87] (WO2023/076913)
[30] US (63/273,591) 2021-10-29
[30] US (63/419,016) 2022-10-25

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[21] **3,236,530**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/34 (2006.01)**
[25] EN
[54] **REACTOR HAVING DYNAMIC SPARGER**
[54] **REACTEUR DOTE DE DIFFUSEUR DYNAMIQUE**
[72] SATHE, MAYUR, US
[72] COOMBES, JOSS ANTON, US
[72] CONRADO, ROBERT JOHN, US
[72] MORIN, GREGORY JOSEPH, US
[71] LANZATECH, INC., US
[85] 2024-04-26
[86] 2022-10-31 (PCT/US2022/078973)
[87] (WO2023/081618)
[30] US (63/263,507) 2021-11-03

[21] **3,236,532**
[13] A1

[51] **Int.Cl. A61B 5/16 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR ASSESSING ACTIVE-ESCAPE BIAS IN MAMMALS**
[54] **APPAREIL ET PROCEDE D'EVALUATION DU BIAIS DE FUITE ACTIVE CHEZ LES MAMMIFERES**
[72] KARVELIS, POVILAS, CA
[72] DIACONESCU, ANDREEA, CA
[71] CENTRE FOR ADDICTION AND MENTAL HEALTH, CA
[85] 2024-04-26
[86] 2022-11-03 (PCT/CA2022/051627)
[87] (WO2023/077229)
[30] US (63/276,349) 2021-11-05

[21] **3,236,533**
[13] A1

[51] **Int.Cl. G06N 10/00 (2022.01)**
[25] EN
[54] **QUANTUM COMPUTER CONTROL DEVICE**
[54] **DISPOSITIF DE COMMANDE D'ORDINATEUR QUANTIQUE**
[72] NEGORO, MAKOTO, JP
[72] MORISAKA, SHINICHI, JP
[72] SHIOMI, HIDEHISA, JP
[72] MIYOSHI, TAKEFUMI, JP
[72] KOIKE, KEISUKE, JP
[71] OSAKA UNIVERSITY, JP
[71] QUEL, INC., JP
[85] 2024-04-26
[86] 2022-10-26 (PCT/JP2022/039940)
[87] (WO2023/074740)
[30] JP (2021-179002) 2021-11-01

[21] **3,236,534**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A61P 9/02 (2006.01) C07K 7/06 (2006.01)**
[25] EN
[54] **ENGINEERED CARDIAC MUSCLE COMPOSITIONS**
[54] **COMPOSITIONS DE MUSCLE CARDIAQUE MODIFIEES**
[72] SABETI, PARDIS, US
[72] TABEBORDBAR, MOHAMMADSHARIF, US
[72] YE, SIMON, US
[71] THE BROAD INSTITUTE, INC., US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2024-04-26
[86] 2022-10-05 (PCT/US2022/077628)
[87] (WO2023/060142)
[30] US (63/252,559) 2021-10-05

[21] **3,236,535**
[13] A1

[51] **Int.Cl. C08L 23/08 (2006.01) C08K 5/103 (2006.01) C08K 5/134 (2006.01) C08K 5/526 (2006.01)**
[25] EN
[54] **POLYETHYLENE COMPOSITION AND USE THEREOF, AND POLYOLEFIN MICROPOROUS BREATHABLE FILM PREPARED THEREFROM**
[54] **COMPOSITION DE POLYETHYLENE ET SON UTILISATION, ET FILM MICROPOREUX RESPIRANT EN POLYOLEFINE PREPARE A PARTIR DE CELLE-CI**
[72] ZHANG, YARU, CN
[72] SONG, WENBO, CN
[72] LIU, ZHENJIE, CN
[72] CHU, LIQIU, CN
[72] ZHANG, XIAOMENG, CN
[72] LI, JUAN, CN
[72] LI, JIE, CN
[72] KANG, PENG, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CH..., CN
[85] 2024-04-26
[86] 2022-10-28 (PCT/CN2022/128276)
[87] (WO2023/072254)
[30] CN (202111272418.4) 2021-10-29
[30] CN (202111273490.9) 2021-10-29

[21] **3,236,536**
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **PARTITIONING SYSTEMS AND METHODS FOR DETERMINING MULTIPLE TYPES OF CANCERS**
[54] **SYSTEMES ET PROCEDES DE PARTITIONNEMENT POUR DETERMINER DE MULTIPLES TYPES DE CANCERS**
[72] CHAIT, ARNON, US
[72] ZASLAVSKY, BORIS Y., US
[71] CLEVELAND DIAGNOSTICS, INC., US
[85] 2024-04-26
[86] 2022-10-13 (PCT/US2022/046537)
[87] (WO2023/076036)
[30] US (63/272,759) 2021-10-28

[21] **3,236,537**
[13] A1

[51] **Int.Cl. C23C 10/36 (2006.01)**
[25] EN
[54] **METHOD OF APPLYING THERMODIFFUSION ZINC COATING TO STEEL PIPES**
[54] **PROCEDE D'APPLICATION D'UN REVETEMENT DE ZINC PAR THERMODIFFUSION SUR DES TUBES EN ACIER**
[72] SONK, ALEXEY NIKOLAEVICH, RU
[72] TSYBIN, ALEKSANDR IGOREVICH, RU
[71] MAJORPACK INCORPORATED, US
[85] 2024-04-26
[86] 2022-10-13 (PCT/RU2022/050327)
[87] (WO2023/200359)
[30] RU (2022109894) 2022-04-13

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[21] **3,236,538**
[13] A1

[51] **Int.Cl. C07D 205/12 (2006.01) A61K 31/4035 (2006.01) A61K 31/4178 (2006.01) A61K 31/4184 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61K 31/4436 (2006.01) A61K 31/4725 (2006.01) A61K 31/5377 (2006.01) A61P 25/04 (2006.01) A61P 25/16 (2006.01) A61P 25/20 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01) C07D 413/04 (2006.01) C07D 413/14 (2006.01) C07D 417/04 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01) C07D 513/04 (2006.01)**

[25] EN
[54] **NOVEL SPIRO COMPOUND**
[54] **NOUVEAU COMPOSE SPIRO**
[72] HAYASHI, NORIMITSU, JP
[72] IKUBO, MASAYA, JP
[72] NAKAO, AKIRA, JP
[72] OGATA, SHINGO, JP
[72] NAGAOKA, MINAMI, JP
[72] FUKUNAGA, KENJI, JP
[72] KANNO, RENTAROU, JP
[72] YAMADA, TAKAHIRO, JP
[71] MITSUBISHI TANABE PHARMA CORPORATION, JP
[85] 2024-04-26
[86] 2022-10-28 (PCT/JP2022/040370)
[87] (WO2023/074847)
[30] JP (2021-177933) 2021-10-29

[21] **3,236,539**
[13] A1

[51] **Int.Cl. A01H 5/10 (2018.01) A01H 6/02 (2018.01) C12Q 1/686 (2018.01) C12Q 1/6869 (2018.01) A01H 5/12 (2018.01) C12N 15/11 (2006.01)**

[25] EN
[54] **SPINACH PLANT HAVING NOVEL DOWNY MILDEW RESISTANCE GENE**
[54] **EPINARD POSSEDANT UN NOUVEAU GENE DE RESISTANCE AU MILDIOU**
[72] NAKAMURA, YO, JP
[72] KIMURA, RYO, JP
[72] SUGIHARA, YUICHI, JP
[72] MORITAMA, YOSUKE, JP
[71] SAKATA SEED CORPORATION, JP
[85] 2024-04-26
[86] 2022-11-01 (PCT/JP2022/040890)
[87] (WO2023/074911)
[30] JP (2021-178897) 2021-11-01

[21] **3,236,540**
[13] A1

[51] **Int.Cl. H01M 50/375 (2021.01) H01M 10/60 (2014.01) H01M 50/249 (2021.01) H01M 50/317 (2021.01)**

[25] EN
[54] **BATTERY AND ELECTRICAL DEVICE**
[54] **BATTERIE ET DISPOSITIF ELECTRIQUE**
[72] LI, YAO, CN
[72] YANG, PIAOPIAO, CN
[72] CHEN, XIAOBO, CN
[72] QIAN, OU, CN
[71] CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED, CN
[85] 2024-04-26
[86] 2022-10-31 (PCT/CN2022/128750)
[87] (3236540)

[21] **3,236,541**
[13] A1

[51] **Int.Cl. C07G 1/00 (2011.01) C08H 7/00 (2011.01)**

[25] EN
[54] **WHITE LIGNIN, WHITE LIGNIN-POLYSACCHARIDE COMPLEX, AND METHOD FOR PRODUCING SAME**
[54] **LIGNINE BLANCHE, COMPLEXE DE LIGNINE BLANCHE-POLYSACCHARIDE ET PROCEDE POUR LA PRODUCTION DE CEUX-CI**
[72] NISHIMURA, HIROSHI, JP
[72] SANO, MEI, JP
[72] MIZUKOSHI, YOSHITERU, JP
[71] KYOTO UNIVERSITY, JP
[85] 2024-04-26
[86] 2022-10-28 (PCT/JP2022/040569)
[87] (WO2023/074885)
[30] JP (2021-178335) 2021-10-29

[21] **3,236,542**
[13] A1

[51] **Int.Cl. H04L 67/1095 (2022.01) G06F 16/27 (2019.01) H04L 67/1097 (2022.01) H04L 69/28 (2022.01)**

[25] EN
[54] **COORDINATED CHECKPOINTS AMONG STORAGE SYSTEMS IMPLEMENTING CHECKPOINT-BASED REPLICATION**
[54] **POINTS COORDONNES DE CONTROLE PARMIS DES SYSTEMES DE STOCKAGE IMPLEMENTANT UNE REPLICATION A BASE DE POINTS DE CONTROLE**
[72] KARR, RONALD, US
[71] PURE STORAGE, INC., US
[85] 2024-04-26
[86] 2022-10-28 (PCT/US2022/078853)
[87] (WO2023/077051)
[30] US (17/514,784) 2021-10-29
[30] US (63/298,161) 2022-01-10
[30] US (17/731,020) 2022-04-27

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[21] **3,236,543**
[13] A1

[51] **Int.Cl. G01S 17/89 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATIC ROUTE GENERATION FOR ROBOTIC DEVICES**
[54] **SYSTEMES ET PROCEDES DE GENERATION AUTOMATIQUE D'ITINERAIRE POUR DISPOSITIFS ROBOTIQUES**
[72] SARAIYA, VISHAAL SAMIR, US
[71] BRAIN CORPORATION, US
[85] 2024-04-26
[86] 2022-10-28 (PCT/US2022/048195)
[87] (WO2023/076576)
[30] US (63/273,584) 2021-10-29

[21] **3,236,544**
[13] A1

[51] **Int.Cl. G06T 7/80 (2017.01) G06T 7/536 (2017.01) G06V 20/58 (2022.01)**
[25] EN
[54] **HIGHLY-ACCURATE AND SELF-ADJUSTING IMAGING SENSOR AUTO-CALIBRATION FOR IN-VEHICLE ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS) OR OTHER SYSTEM**
[54] **AUTO-ETALONNAGE DE CAPTEUR D'IMAGERIE EXTREMEMENT PRECIS ET A AUTO-AJUSTEMENT POUR SYSTEME AVANCE D'AIDE A LA CONDUITE (ADAS), EMBARQUE, OU AUTRE SYSTEME**
[72] KOBACH, ANDREW C., US
[71] OMNITRACS, LLC, US
[85] 2024-04-26
[86] 2022-08-15 (PCT/US2022/074976)
[87] (WO2023/076755)
[30] US (17/514,912) 2021-10-29

[21] **3,236,545**
[13] A1

[51] **Int.Cl. A61K 35/57 (2015.01)**
[25] EN
[54] **MEDICINE FOR PREVENTING OR TREATING ENTERITIS AND INTESTINAL CANCER**
[54] **MEDICAMENT POUR LA PREVENTION OU LE TRAITEMENT DE L'ENTERITE ET DU CANCER INTESTINAL**
[72] QIAN, JIN, CN
[72] LI, SHIYAN, CN
[72] WANG, RONG, CN
[71] ANHUI HYGEIANCELLS BIOMEDICAL CO. LTD, CN
[85] 2024-04-26
[86] 2022-10-28 (PCT/CN2022/128160)
[87] (WO2023/072229)
[30] CN (202111268772.X) 2021-10-29

[21] **3,236,546**
[13] A1

[51] **Int.Cl. A61K 31/57 (2006.01) A61P 15/06 (2006.01)**
[25] EN
[54] **HYDROXYPROGESTERONE CAPROATE COMPOSITIONS AND METHODS OF USE IN PREVENTING PRETERM BIRTH**
[54] **COMPOSITIONS DE CAPROATE D'HYDROXYPROGESTERONE ET METHODES D'UTILISATION DANS LA PREVENTION DE LA NAISSANCE PREMATUREE**
[72] SCHRAMM, MICHAEL R., US
[72] KIM, KILYOUNG, US
[72] CHIDAMBARAM, NACHIAPPAN, US
[72] PATEL, MAHESH V., US
[72] BRUNO, BENJAMIN J., US
[72] MEHRABAN, SHADI, US
[71] LIPOCINE, INC., US
[85] 2024-04-26
[86] 2022-12-21 (PCT/US2022/082095)
[87] (WO2023/077173)
[30] US (17/512,365) 2021-10-27

[21] **3,236,547**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS TARGETING INTERLEUKIN-34**
[54] **COMPOSES ET METHODES CIBLANT L'INTERLEUKINE-34**
[72] CHEDID, MARCIO, US
[72] FLEISHER, ADAM S., US
[72] LANNAN, MEGAN BRITTANY, US
[72] LO, ALBERT, US
[72] MINTUN, MARK, US
[72] OBUNGU, VICTOR H., US
[72] RAINES, SARAH ELISABETH, US
[72] SIMS, JOHN RANDALL II, US
[72] SKORA, ANDREW DIXON, US
[72] WALSH, ROBIN ELIZABETH, US
[72] WEST, ELIZABETH ANNE, US
[72] YE, MING, US
[71] ELI LILLY AND COMPANY, US
[85] 2024-04-26
[86] 2022-10-28 (PCT/US2022/078837)
[87] (WO2023/077042)
[30] US (63/273,195) 2021-10-29

[21] **3,236,548**
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01) A61N 2/00 (2006.01)**
[25] EN
[54] **TREATMENT OF NON-OCULAR DISEASES/DISORDERS BY DELIVERY OF ELECTROMAGNETIC ENERGY TO OCULAR TISSUE**
[54] **TRAITEMENT DE MALADIES/TROUBLES NON OCULAIRES PAR ADMINISTRATION D'ENERGIE ELECTROMAGNETIQUE A UN TISSU OCULAIRE**
[72] PON, DAVID, US
[71] PON, DAVID, US
[85] 2024-04-26
[86] 2022-10-26 (PCT/US2022/047942)
[87] (WO2023/076431)
[30] US (63/271,856) 2021-10-26

Demandes PCT entrant en phase nationale

[21] **3,236,549**
[13] A1

[51] **Int.Cl. G06V 20/59 (2022.01)**
[25] EN
[54] **HIGHLY-ACCURATE AND SELF-ADJUSTING IMAGING SENSOR AUTO-CALIBRATION FOR IN-VEHICLE DRIVER MONITORING SYSTEM OR OTHER SYSTEM**
[54] **AUTO-ETALONNAGE DE CAPTEUR D'IMAGERIE HAUTEMENT PRECIS ET AUTO-REGLABLE POUR SYSTEME DE SURVEILLANCE DE CONDUCTEUR EMBARQUE OU AUTRE SYSTEME**
[72] KOBACH, ANDREW C., US
[71] OMNITRACS, LLC, US
[85] 2024-04-26
[86] 2022-11-04 (PCT/US2022/079341)
[87] (WO2023/081852)
[30] US (17/517,384) 2021-11-02

[21] **3,236,550**
[13] A1

[51] **Int.Cl. C07D 498/20 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **SPIROTRICYCLE RIPK1 INHIBITORS AND METHODS OF USES THEREOF**
[54] **INHIBITEURS DE SPIROTRICYCLE RIPK1 ET LEURS PROCEDES D'UTILISATION**
[72] ACHAB, ABDELGHANI ABE, US
[72] BRILL, ZACHARY G., US
[72] RICO DUQUE, JENNY LORENA, US
[72] FRADERA, XAVIER, US
[72] METHOT, JOEY L., US
[72] SILIPHAIVANH, PHIENG, US
[72] SU, JING, US
[72] VARA, BRANDON A., US
[72] DIMAURO, ERIN F., US
[71] MERCK SHARP & DOHME LLC, US
[85] 2024-04-26
[86] 2022-10-25 (PCT/US2022/047657)
[87] (WO2023/076218)
[30] US (63/272,276) 2021-10-27
[30] US (63/407,851) 2022-09-19

[21] **3,236,551**
[13] A1

[51] **Int.Cl. H01M 50/209 (2021.01)**
[25] EN
[54] **BATTERY AND ELECTRICAL DEVICE**
[54] **BATTERIE ET DISPOSITIF ELECTRIQUE**
[72] KE, JIANHUANG, CN
[72] CHEN, XIAOBO, CN
[72] LI, YAO, CN
[71] CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED, CN
[85] 2024-04-26
[86] 2022-06-23 (PCT/CN2022/100760)
[87] (WO2023/245547)

[21] **3,236,552**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) C12Q 1/6886 (2018.01) C07D 455/03 (2006.01)**
[25] EN
[54] **APPLICATION OF ISOQUINOLINE COMPOUND IN TUMOR TREATMENT**
[54] **APPLICATION D'UN COMPOSE D'ISOQUINOLEINE DANS LE TRAITEMENT DE TUMEURS**
[72] SHI, YUFENG, CN
[72] MA, WENJIANG, CN
[72] JIANG, CIZHONG, CN
[72] WU, CHANGQING, CN
[72] LIU, YU'E, CN
[72] LIU, WENJU, CN
[72] SHI, YUFENG, CN
[71] NANJING SHIJIANG MEDICINE TECHNOLOGY CO., LTD, CN
[71] TONGJI UNIVERSITY, CN
[85] 2024-04-26
[86] 2021-11-05 (PCT/CN2021/129066)
[87] (WO2022/095972)
[30] CN (202011233335.X) 2020-11-06

[21] **3,236,553**
[13] A1

[51] **Int.Cl. C07D 231/56 (2006.01) C07D 401/04 (2006.01) C07D 405/04 (2006.01) C07D 405/06 (2006.01) C07D 409/04 (2006.01) C07D 409/06 (2006.01) C07D 413/06 (2006.01)**
[25] EN
[54] **INHIBITORS OF HIF-2ALPHA AND METHODS OF USE THEREOF**
[54] **INHIBITEURS D'HIF-2ALPHA ET LEURS PROCEDES D'UTILISATION**
[72] BEATTY, JOEL WORLEY, US
[72] DREW, SAMUEL LAWRIE, US
[72] EPLIN, MATTHEW, US
[72] FOURNIER, JEREMY, US
[72] GAL, BALINT, US
[72] HARDMAN, CLAYTON, US
[72] MAILYAN, ARTUR KARENOVICH, US
[72] LAWSON, KENNETH VICTOR, US
[72] LELETI, MANMOHAN REDDY, US
[72] LIU, DONGDONG, US
[72] MATA, GUILLAUME, US
[72] PODUNAVAC, MA?A, US
[72] POWERS, JAY PATRICK, US
[72] ROSEN, BRANDON REID, US
[72] YU, KAI, US
[71] ARCUS BIOSCIENCES, INC., US
[85] 2024-04-26
[86] 2022-10-28 (PCT/US2022/078842)
[87] (WO2023/077046)
[30] US (63/273,283) 2021-10-29
[30] US (63/345,120) 2022-05-24
[30] US (63/380,221) 2022-10-19

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[21] **3,236,554**
[13] A1

[51] **Int.Cl. B22F 10/16 (2021.01) B22F 10/38 (2021.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR 3D PRINTING POROUS ZINC STRUCTURES**
[54] **SYSTEME ET PROCEDE D'IMPRESSIION 3D DE STRUCTURES DE ZINC POREUSES**
[72] ZHU, CHENG, US
[72] DUOSS, ERIC, US
[72] QI, ZHEN, US
[72] VAN BUUREN, TONY W., US
[72] WORSLEY, MARCUS A., US
[71] LAWRENCE LIVERMORE NATIONAL SECURITY, LLC, US
[85] 2024-04-26
[86] 2022-11-02 (PCT/US2022/048756)
[87] (WO2023/081246)
[30] US (17/453,396) 2021-11-03

[21] **3,236,555**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS TARGETING INTERLEUKIN-34**
[54] **COMPOSES ET PROCEDES CIBLANT L'INTERLEUKINE-34**
[72] CHEDID, MARCIO, US
[72] FLEISHER, ADAM S., US
[72] LANNAN, MEGAN BRITTANY, US
[72] LO, ALBERT, US
[72] MINTUN, MARK, US
[72] OBUNGU, VICTOR H., US
[72] RAINES, SARAH ELISABETH, US
[72] SIMS, JOHN RANDALL II, US
[72] SKORA, ANDREW DIXON, US
[72] WALSH, ROBIN ELIZABETH, US
[72] WEST, ELIZABETH ANNE, US
[72] YE, MING, US
[71] ELI LILLY AND COMPANY, US
[85] 2024-04-26
[86] 2022-10-27 (PCT/US2022/078776)
[87] (WO2023/076995)
[30] US (63/273,216) 2021-10-29

[21] **3,236,556**
[13] A1

[51] **Int.Cl. G06Q 30/0283 (2023.01) G06Q 40/08 (2012.01) G06N 20/00 (2019.01)**
[25] EN
[54] **MACHINE LEARNING SYSTEM AND METHODS FOR PRICE LIST DETERMINATION FROM FREE TEXT DATA**
[54] **SYSTEME D'APPRENTISSAGE MACHINE ET PROCEDES DE DETERMINATION DE LISTE DE PRIX A PARTIR DE DONNEES DE TEXTE LIBRE**
[72] SYKES, NICHOLAS, US
[72] TAYLOR, MATTHEW, US
[72] REDD, KELLY, US
[72] THALMAN, TYLER, US
[71] INSURANCE SERVICES OFFICE, INC., US
[85] 2024-04-26
[86] 2022-10-28 (PCT/US2022/048235)
[87] (WO2023/076609)
[30] US (63/273,874) 2021-10-29

[21] **3,236,557**
[13] A1

[51] **Int.Cl. A61B 3/113 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **HEAD-MOUNTABLE ASSESSMENT DEVICE, AND METHOD OF USING SAME**
[54] **DISPOSITIF D'EVALUATION A MONTER SUR LA TETE ET PROCEDE POUR L'UTILISER**
[72] MIHALI, RAUL, US
[72] EL-MONAJJED, KHALED, CA
[71] EVOLUTION OPTIKS LIMITED, BB
[85] 2024-04-26
[86] 2022-11-01 (PCT/US2022/048634)
[87] (WO2023/081170)
[30] US (63/274,873) 2021-11-02
[30] US (PCT/US2022/013564) 2022-01-24
[30] US (63/363,016) 2022-04-14

[21] **3,236,558**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 401/14 (2006.01) C07D 491/107 (2006.01)**
[25] EN
[54] **SYNTHESIS, PREPARATION METHOD AND USE OF SHP2 AND CDK4/6 DUAL-TARGET INHIBITORY COMPOUND**
[54] **SYNTHESE, PROCEDE DE PREPARATION ET UTILISATION D'UN COMPOSE INHIBITEUR A DOUBLE CIBLE DE SHP2 ET DE CDK4/6**
[72] WU, XIAOXING, CN
[72] CHEN, XIAOYU, CN
[72] LI, WENQIANG, CN
[72] SHU, CHENGXIA, CN
[72] LUO, GUANGMEI, CN
[72] YANG, KEXIN, CN
[71] CHINA PHARMACEUTICAL UNIVERSITY, CN
[85] 2024-04-26
[86] 2022-07-21 (PCT/CN2022/106982)
[87] (WO2023/071314)
[30] CN (202111272628.3) 2021-10-29

[21] **3,236,559**
[13] A1

[51] **Int.Cl. A61B 5/06 (2006.01) A61B 90/00 (2016.01) A61B 17/00 (2006.01) G01R 33/16 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO IMPLANTABLE FERROMAGNETIC MARKERS**
[54] **AMELIORATIONS APPORTEES A DES MARQUEURS FERROMAGNETIQUES IMPLANTABLES OU RELATIVES A CEUX-CI**
[72] UDALE, ROBINSON, GB
[72] VILLAR, GABRIEL, GB
[71] ENDOMAGNETICS LTD., GB
[85] 2024-04-26
[86] 2022-11-03 (PCT/GB2022/052775)
[87] (WO2023/079288)
[30] GB (2115827.4) 2021-11-03
[30] GB (2115826.6) 2021-11-03

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[21] **3,236,560**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS TARGETING INTERLEUKIN-34**
[54] **COMPOSES ET PROCEDES CIBLANT L'INTERLEUKINE-34**
[72] CHEDID, MARCIO, US
[72] FLEISHER, ADAM S., US
[72] LANNAN, MEGAN BRITTANY, US
[72] LO, ALBERT, US
[72] MINTUN, MARK, US
[72] OBUNGU, VICTOR H., US
[72] RAINES, SARAH ELISABETH, US
[72] SIMS, JOHN RANDALL II, US
[72] SKORA, ANDREW DIXON, US
[72] WALSH, ROBIN ELIZABETH, US
[72] WEST, ELIZABETH ANNE, US
[72] YE, MING, US
[71] ELI LILLY AND COMPANY, US
[85] 2024-04-26
[86] 2022-10-27 (PCT/US2022/078744)
[87] (WO2023/076970)
[30] US (63/273,209) 2021-10-29

[21] **3,236,561**
[13] A1

[51] **Int.Cl. H01M 50/342 (2021.01) H01M 10/613 (2014.01) H01M 10/6557 (2014.01)**
[25] EN
[54] **BATTERY AND ELECTRICAL DEVICE**
[54] **BATTERIE ET DISPOSITIF ELECTRIQUE**
[72] QIAN, OU, CN
[72] YANG, PIAOPIAO, CN
[72] LI, YAO, CN
[72] CHEN, XIAOBO, CN
[71] CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED, CN
[85] 2024-04-26
[86] 2022-11-30 (PCT/CN2022/135647)
[87] (WO2023/134319)
[30] CN (PCT/CN2022/071536) 2022-01-12

[21] **3,236,562**
[13] A1

[51] **Int.Cl. H01M 50/342 (2021.01)**
[25] EN
[54] **BATTERY AND ELECTRICAL APPARATUS**
[54] **BATTERIE ET DISPOSITIF ELECTRIQUE**
[72] YANG, PIAOPIAO, CN
[72] LI, YAO, CN
[72] CHEN, XIAOBO, CN
[72] QIAN, OU, CN
[71] CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED, CN
[85] 2024-04-26
[86] 2022-10-31 (PCT/CN2022/128748)
[87] (WO2023/134273)
[30] CN (PCT/CN2022/071536) 2022-01-12

[21] **3,236,563**
[13] A1

[51] **Int.Cl. B60K 11/00 (2006.01) B60H 1/00 (2006.01) B60K 11/02 (2006.01) B60K 11/04 (2006.01) H02K 9/19 (2006.01) H01M 10/65 (2014.01)**
[25] EN
[54] **ELECTRIC VEHICLE WITH A COOLING ARRANGEMENT**
[54] **VEHICULE ELECTRIQUE POURVU D'UN SYSTEME DE REFROIDISSEMENT**
[72] BOURQUE, YANNICK, CA
[72] DRIANT, THOMAS, CA
[72] GUILLEMETTE, JEAN, CA
[72] FORTIER, JONATHAN, CA
[72] VACHON, ALEXANDRE, CA
[72] LECLAIR, ALEXANDRE, CA
[72] MALTAIS-LAROUCHE, EMILE, CA
[72] DEMERS, JEROME, CA
[72] CYR, BRUNO, CA
[72] ROBILLARD, PIERRE-LUC, CA
[72] GAUTHIER, CHRISTOPHER, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[85] 2024-04-26
[86] 2022-10-31 (PCT/IB2022/060500)
[87] (WO2023/073673)
[30] US (63/273,435) 2021-10-29
[30] US (63/273,468) 2021-10-29

[21] **3,236,564**
[13] A1

[51] **Int.Cl. C07K 14/435 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **FC VARIANTS WITH ABOLISHED BINDING TO FCGAMMAR AND CIQ**
[54] **VARIANTS FC A LIAISON ABOLIE AU FCGAMMAR ET A CIQ**
[72] VISWANATHAN, KARTHIK, US
[72] OLINSKI, LAUREN, US
[72] RAMAKRISHNAN, RAMKI, US
[72] DESHPANDE, ADITI, US
[72] BABCOCK, GREGORY, US
[72] SHRIVER, ZACHARY, US
[71] VISTERRA, INC., US
[85] 2024-04-26
[86] 2022-11-01 (PCT/US2022/048609)
[87] (WO2023/081160)
[30] US (63/274,716) 2021-11-02

[21] **3,236,565**
[13] A1

[51] **Int.Cl. A42B 3/04 (2006.01) G07C 5/00 (2006.01) G07C 5/08 (2006.01)**
[25] EN
[54] **SYSTEM FOR MONITORING VEHICLE RIDERS**
[54] **SYSTEME DE SURVEILLANCE D'USAGERS DE VEHICULE**
[72] JONES, MICHAEL K, US
[72] LATHROP, JEREMY LEN, US
[71] WESTERN POWER SPORTS, LLC, US
[85] 2024-04-26
[86] 2022-08-31 (PCT/US2022/042253)
[87] (WO2023/075926)
[30] US (63/273,715) 2021-10-29

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[21] **3,236,566**
[13] A1

[51] **Int.Cl. A61K 39/215 (2006.01) A61K 38/16 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **T-CELL MODULATORY MULTIMERIC POLYPEPTIDES AND METHODS OF USE THEREOF**

[54] **POLYPEPTIDES MULTIMERES MODULATEURS DE LYMPHOCYTES T ET LEURS METHODES D'UTILISATION**

[72] SURI, ANISH, US
[72] MONIZ, RAYMOND J., US
[71] CUE BIOPHARMA, INC., US
[85] 2024-04-26
[86] 2022-11-21 (PCT/US2022/080263)
[87] (WO2023/097188)
[30] US (63/283,028) 2021-11-24
[30] US (63/309,288) 2022-02-11
[30] US (63/338,131) 2022-05-04

[21] **3,236,567**
[13] A1

[51] **Int.Cl. C08B 37/00 (2006.01) C08B 37/08 (2006.01) C08L 5/10 (2006.01) C12N 9/10 (2006.01) C12P 19/26 (2006.01) C12P 19/04 (2006.01)**

[25] EN

[54] **METHODS FOR THE CHEMOENZYMATIC SYNTHESIS OF LOW MOLECULAR WEIGHT HEPARIN FROM LOW MOLECULAR WEIGHT HEPAROSAN**

[54] **PROCEDES DE SYNTHESE CHIMIOENZYMATIQUE D'HEPARINE DE BAS POIDS MOLECULAIRE A PARTIR D'HEPAROSANE DE BAS POIDS MOLECULAIRE**

[72] LINHARDT, ROBERT JOHN, US
[72] DORDICK, JONATHAN SETH, US
[72] YU, YANLEI, CN
[72] FU, LI, US
[72] HE, PENG, US
[72] XIA, KE, US
[72] VARGHESE, SONY, US
[72] ZHANG, FUMING, US
[72] WANG, HONG, CN
[71] RENNELAER POLYTECHNIC INSTITUTE, US
[71] OTSUKA PHARMACEUTICAL FACTORY, INC., JP
[71] LINHARDT, ROBERT JOHN, US
[71] DORDICK, JONATHAN SETH, US
[71] YU, YANLEI, CN
[71] FU, LI, US
[71] HE, PENG, US
[71] XIA, KE, US
[71] VARGHESE, SONY, US
[71] ZHANG, FUMING, US
[71] WANG, HONG, CN
[85] 2024-04-26
[86] 2022-11-04 (PCT/US2022/048928)
[87] (WO2023/081336)
[30] US (63/276,212) 2021-11-05
[30] US (63/310,410) 2022-02-15

[21] **3,236,570**
[13] A1

[51] **Int.Cl. A23G 1/44 (2006.01) A23L 11/50 (2021.01) A23G 1/48 (2006.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01)**

[25] EN

[54] **A CHOCOLATE PRODUCT COMPRISING A MILK ANALOGUE PRODUCT**

[54] **PRODUIT DE CHOCOLAT COMPRENANT UN PRODUIT ANALOGUE AU LAIT**

[72] WOOSTER, TIMOTHY JAMES, CH
[72] CELIGUETA TORRES, ISABEL, GB
[72] KAMMERHOFER, JANA CHRISTINA, CH
[72] DE WEERT, EVELIEN, CH
[72] HAAS, KLARA, CH
[72] CHISHOLM, HELEN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-04-29
[86] 2022-11-15 (PCT/EP2022/081985)
[87] (WO2023/084114)
[30] EP (21208232.5) 2021-11-15
[30] EP (21215318.3) 2021-12-16

[21] **3,236,572**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61P 25/16 (2006.01) G01N 33/53 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **METHODS OF DIAGNOSING A SYNUCLEINOPATHY**

[54] **METHODES DE DIAGNOSTIC D'UNE SYNUCLEINOPATHIE**

[72] HUSSAIN, SAMI, US
[72] GRISWOLD-PRENNER, IRENE, US
[71] NITRASE THERAPEUTICS, INC., US
[85] 2024-04-29
[86] 2022-10-31 (PCT/US2022/078980)
[87] (WO2023/077122)
[30] US (63/274,237) 2021-11-01

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[21] **3,236,577**
[13] A1

[51] **Int.Cl. A45D 29/14 (2006.01) A45D 29/18 (2006.01) B25J 9/04 (2006.01)**

[25] EN

[54] **ROBOTIC ARM OF A NAIL POLISH APPLICATION APPARATUS**

[54] **BRAS ROBOT D'UN APPAREIL D'APPLICATION DE VERNIS A ONGLES**

[72] MOR YOSEF, AVICHAY, IL

[72] MORAN, OMRI, US

[72] MILLER, RON, IL

[72] KHODOS, BORIS, IL

[71] NAILOMATIC LTD., IL

[85] 2024-04-29

[86] 2022-11-08 (PCT/IL2022/051182)

[87] (WO2023/079564)

[30] US (63/276,674) 2021-11-08

[21] **3,236,587**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/747 (2015.01) C12N 1/04 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING DRIED LACTOBACILLUS CELLS**

[54] **PROCEDE DE PRODUCTION DE CELLULES DE LACTOBACILLUS SECHEES**

[72] SCHILLING, MICHAEL, DK

[72] THIELE, TOBIAS, DE

[72] UHL, MAGDALENA, DE

[71] NOVOZYMES A/S, DK

[85] 2024-04-24

[86] 2022-12-20 (PCT/EP2022/086859)

[87] (WO2023/118052)

[30] IB (PCT/IB2021/062249) 2021-12-23

[21] **3,236,595**
[13] A1

[51] **Int.Cl. B29C 33/40 (2006.01) B29D 11/00 (2006.01) C08F 222/10 (2006.01) C08F 230/08 (2006.01) C08F 290/06 (2006.01) C08G 81/02 (2006.01) C08L 51/08 (2006.01)**

[25] EN

[54] **METHOD FOR INDUCING GREATER WETTABILITY OF CONTACT LENS COMPOSITIONS DURING MOLDING**

[54] **METHODE POUR INDUIRE UNE PLUS GRANDE MOUILLABILITE DE COMPOSITIONS DE LENTILLE DE CONTACT PENDANT LE MOULAGE**

[72] ARKLES, BARRY C., US

[72] GOFF, JONATHAN D., US

[72] WUCHTE, LIANA D., US

[71] GELEST, INC., US

[85] 2024-04-29

[86] 2022-11-21 (PCT/US2022/050534)

[87] (WO2023/091739)

[30] US (63/281,927) 2021-11-22

[21] **3,236,586**
[13] A1

[51] **Int.Cl. A61K 31/53 (2006.01) A61K 31/519 (2006.01) A61P 11/00 (2006.01) A61P 23/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING RESPIRATORY DEPRESSION MODULATED BY A NON-OPIOID AGENT**

[54] **METHODES DE TRAITEMENT DE LA DEPRESSION RESPIRATOIRE MODULEE PAR UN AGENT NON OPIOIDE**

[72] PERGOLIZZI, JOSEPH, US

[72] MILLER, THOMAS, US

[72] SCHWEIKERT, ALFRED, US

[71] ENALARE THERAPEUTICS INC., US

[85] 2024-04-29

[86] 2022-11-02 (PCT/US2022/048669)

[87] (WO2023/081185)

[30] US (63/274,722) 2021-11-02

[21] **3,236,592**
[13] A1

[51] **Int.Cl. F28D 15/02 (2006.01) F25B 1/047 (2006.01) F28F 5/06 (2006.01) F28F 13/00 (2006.01)**

[25] EN

[54] **THERMAL OSCILLATION SYSTEMS**

[54] **SYSTEMES D'OSCILLATION THERMIQUE**

[72] ELIYAHU, NITZAN, IL

[71] EXENCY LTD, IL

[85] 2024-04-24

[86] 2022-11-10 (PCT/IL2022/051202)

[87] (WO2023/084520)

[30] GB (2116171.6) 2021-11-10

[21] **3,236,596**
[13] A1

[51] **Int.Cl. F25D 21/08 (2006.01) F25D 17/06 (2006.01) F25D 21/14 (2006.01)**

[25] EN

[54] **SELF-CONTAINED REACH-IN REFRIGERATOR**

[54] **REFRIGERATEUR ACCESSIBLE AUTONOME**

[72] CLAY, BRANDON, US

[72] MOONIER, CHRISTOPHER, US

[71] TRUE MANUFACTURING CO., INC., US

[85] 2024-04-24

[86] 2022-12-13 (PCT/US2022/052681)

[87] (WO2023/129368)

[30] US (17/564,559) 2021-12-29

[21] **3,236,598**
[13] A1

[51] **Int.Cl. B05C 5/02 (2006.01)**

[25] EN

[54] **DIE**

[54] **MATRICE**

[72] SASANO, YUSHI, JP

[71] HIRANO TECSEED CO., LTD., JP

[85] 2024-04-29

[86] 2023-01-27 (PCT/JP2023/002624)

[87] (WO2023/157609)

[30] JP (2022-021520) 2022-02-15

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[21] **3,236,600**
[13] A1

[51] **Int.Cl. H04L 45/00 (2022.01) H04L 41/122 (2022.01) H04L 41/5019 (2022.01) H04L 45/28 (2022.01) H04L 45/64 (2022.01) H04L 45/655 (2022.01) H04L 45/741 (2022.01) H04L 45/76 (2022.01) H04L 45/85 (2022.01)**

[25] EN
[54] **ROBUST NETWORK CONNECTIVITY LEVERAGING EDGE COMPUTE**
[54] **CONNECTIVITE DE RESEAU ROBUSTE METTANT EN ?UVRE UN CALCUL EN PERIPHERIE**

[72] WENZEL, KEVIN, US
[71] LEVEL 3 COMMUNICATIONS, LLC, US

[85] 2024-04-29
[86] 2022-09-01 (PCT/US2022/075804)
[87] (WO2023/081551)
[30] US (63/275,024) 2021-11-03

[21] **3,236,601**
[13] A1

[51] **Int.Cl. C08K 3/22 (2006.01) C09D 7/61 (2018.01) C09D 7/63 (2018.01) C08K 3/26 (2006.01) C08K 3/34 (2006.01) C08K 9/02 (2006.01) C08K 9/10 (2006.01) C09D 133/00 (2006.01) E04B 1/76 (2006.01)**

[25] EN
[54] **STABLE HIGH TEMPERATURE COATING COMPOSITIONS AND METHODS OF PREPARING AND USING THE SAME**
[54] **COMPOSITIONS DE REVETEMENT STABLES A HAUTE TEMPERATURE ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION**

[72] ZHANG, LINZHU, US
[72] HUGHES, JOHN E., US
[72] CAVANAUGH, JASON T., US
[72] SHEARER, LORI JO L., US
[71] ARMSTRONG WORLD INDUSTRIES, INC., US

[85] 2024-04-29
[86] 2022-10-26 (PCT/US2022/047915)
[87] (WO2023/076410)
[30] US (63/272,386) 2021-10-27

[21] **3,236,602**
[13] A1

[51] **Int.Cl. C07K 16/12 (2006.01) C12N 15/10 (2006.01) C40B 70/00 (2006.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS FOR PROTEIN DETECTION**
[54] **PROCEDES ET COMPOSITIONS POUR LA DETECTION DE PROTEINES**

[72] OGDEN, PIERCE, US
[72] KUZNETSOV, GLEB, US
[72] LOFGREN, SHANE, US
[72] NUDEL, KATHLEEN, US
[72] LIM, HOONG CHUIN, US
[72] DUFFY, KAREN, US
[72] CHANG, JEFFREY, US
[71] MANIFOLD BIOTECHNOLOGIES, INC., US

[85] 2024-04-24
[86] 2022-11-02 (PCT/US2022/079134)
[87] (WO2023/081695)
[30] US (17/518,221) 2021-11-03
[30] US (63/275,172) 2021-11-03

[21] **3,236,603**
[13] A1

[51] **Int.Cl. B01D 53/02 (2006.01) B01J 20/28 (2006.01) B01J 20/32 (2006.01) B01J 20/34 (2006.01)**

[25] EN
[54] **REGENERATION OF DEGRADED AMINO-SORBENTS FOR CARBON CAPTURE**
[54] **REGENERATION D'AMINO-SORBANTS DEGRADEES POUR LA CAPTURE DE CARBONE**

[72] VARGAS, ANGELO, CH
[72] ALBANI, DAVIDE, CH
[72] LIMONE, CLAUDIO, CH
[71] CLIMEWORKS AG, CH

[85] 2024-04-29
[86] 2022-11-14 (PCT/EP2022/081700)
[87] (WO2023/088812)
[30] EP (21209232.4) 2021-11-19

[21] **3,236,605**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) A01H 6/46 (2018.01) C12Q 1/6895 (2018.01) A01H 5/10 (2018.01)**

[25] EN
[54] **MAIZE EVENT DAS-01131-3 AND METHODS FOR DETECTION THEREOF**
[54] **EVENEMENT DE MAIS DAS-01131-3 ET PROCEDES DE DETECTION DE CELUI-CI**

[72] ASBERRY, ANDREW, US
[72] CONG, BIN, US
[72] CRANE, VIRGINIA, US
[72] KING, JAMES EDWARD, US
[72] MUTTI, JASDEEP S., US
[72] O'NEILL, DENNIS, US
[72] PASCUAL, M. ALEJANDRA, US
[72] VAN DYK, MARIA MAGDALENA, US

[72] WANG, PO-HAO, US
[72] WOOSLEY, AARON T., US
[72] WORDEN, SARAH E., US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[85] 2024-04-24
[86] 2022-11-11 (PCT/US2022/079768)
[87] (WO2023/091884)
[30] US (63/264,100) 2021-11-16

[21] **3,236,606**
[13] A1

[51] **Int.Cl. A61F 5/56 (2006.01) A61H 9/00 (2006.01)**

[25] EN
[54] **DEVICE AND METHOD FOR OPENING AN AIRWAY**
[54] **DISPOSITIF ET METHODE D'OUVERTURE DE VOIES RESPIRATOIRES**

[72] GANDOLA, KENT, US
[71] SOMMETRICS, INC., US

[85] 2024-04-29
[86] 2022-10-26 (PCT/US2022/047857)
[87] (WO2023/076362)
[30] US (63/263,328) 2021-10-29

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[21] 3,236,609 [13] A1	[21] 3,236,610 [13] A1	[21] 3,236,611 [13] A1
[51] Int.Cl. F03B 17/04 (2006.01) F03B 17/02 (2006.01)	[51] Int.Cl. C07K 14/405 (2006.01) C12N 15/63 (2006.01)	[51] Int.Cl. A24C 5/06 (2006.01) A24C 1/02 (2006.01) A24C 1/44 (2006.01)
[25] EN	[25] EN	[25] EN
[54] BUOYANT FORCE UTILIZATION DEVICE	[54] USE OF A MODIFIED .BETA.-CAROTENE KETOLASE (BKT) OR A CORRESPONDING NUCLEIC ACID FOR IMPROVING RESISTANCE TO OXIDATIVE STRESS AND/OR PHOTOINHIBITION OF HOST ORGANISMS, IMPROVING BIOMASS PRODUCTIVITY OF HOST ORGANISMS AND/OR PREVAILING OVER OTHER COMPETING ORGANISMS UPON CULTIVATION IN HIGH LIGHT CONDITIONS	[54] APPARATUS FOR FORMING SMOKING PRODUCTS
[54] DISPOSITIF UTILISANT LA POUSSEE D'ARCHIMEDE	[54] UTILISATION D'UNE .BETA.-CAROTENE CETOLASE (BKT) MODIFIEE OU D'UN ACIDE NUCLEIQUE CORRESPONDANT POUR AMELIORER LA RESISTANCE AU STRESS OXYDATIF ET/OU A LA PHOTO-INHIBITION D'ORGANISMES HOTES, AMELIORER LA PRODUCTIVITE DE LA BIOMASSE D'ORGANISMES HOTES ET/OU L'EMPORTER SUR D'AUTRES ORGANISMES CONCURRENTS LORS DE LA CULTURE DANS DES CONDITIONS DE FORTES ...	[54] APPAREIL POUR FORMER DES ARTICLES A FUMER
[72] ULLRICH, THOMAS, DE	[72] BALLOTTARI, MATTEO, IT	[72] PILOT, EVAN, US
[71] ULLRICH, THOMAS, DE	[72] CAZZANIGA, STEFANO, IT	[72] KASSLER, NIKOLAS, US
[85] 2024-04-29	[72] PEROZENI, FEDERICO, IT	[71] GEN THREE SOLUTIONS, LLC, US
[86] 2022-10-28 (PCT/EP2022/080310)	[72] BETTERLE, NICO, IT	[85] 2024-04-29
[87] (WO2023/073223)	[71] UNIVERSITA' DEGLI STUDI DI VERONA, IT	[86] 2022-11-01 (PCT/US2022/048585)
[30] DE (10 2021 128 405.8) 2021-10-31	[85] 2024-04-29	[87] (WO2023/076728)
[30] LU (LU500836) 2021-11-08	[86] 2022-10-28 (PCT/IB2022/060381)	[30] US (63/274,147) 2021-11-01
	[87] (WO2023/073631)	[30] US (63/322,833) 2022-03-23
	[30] IT (102021000027824) 2021-10-29	
		[21] 3,236,613 [13] A1
		[51] Int.Cl. B81B 3/00 (2006.01) B81B 7/02 (2006.01) H03H 9/125 (2006.01) H03H 9/24 (2006.01)
		[25] EN
		[54] MICROELECTROMECHANICAL DEVICES FOR HIGHER ORDER PASSIVE TEMPERATURE COMPENSATION AND METHODS OF DESIGNING THEREOF
		[54] DISPOSITIFS MICRO-ELECTROMECHANIQUES POUR COMPENSATION DE TEMPERATURE PASSIVE D'ORDRE SUPERIEUR ET PROCEDES DE CONCEPTION ASSOCIES
		[72] DARUWALLA, ANOSH, CA
		[72] MATHEW, REUBLE, CA
		[71] STATHERA IP HOLDINGS INC., CA
		[85] 2024-04-25
		[86] 2022-10-26 (PCT/CA2022/051591)
		[87] (WO2023/070214)
		[30] US (63/271,956) 2021-10-26

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[21] **3,236,615**
[13] A1

[51] **Int.Cl. E02F 9/08 (2006.01) E02F 9/20 (2006.01) E02F 9/22 (2006.01)**

[25] EN

[54] **ELECTRIC CONTROL UNIT FOR A MINING MACHINE, CORRESPONDING MINING MACHINE AND COMPUTER-IMPLEMENTED METHOD**

[54] **UNITE DE COMMANDE ELECTRIQUE POUR UN ENGIN D'EXPLOITATION MINIER, ENGIN D'EXPLOITATION MINIER CORRESPONDANT ET PROCEDE MIS EN OEUVRE PAR ORDINATEUR**

[72] GRAHN, FREDRIK, SE
[72] HOLMGREN, FREDRIK, SE
[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE

[85] 2024-04-29
[86] 2021-11-10 (PCT/SE2021/051127)
[87] (WO2023/085985)

[21] **3,236,618**
[13] A1

[51] **Int.Cl. H04L 9/28 (2006.01) H04L 9/40 (2022.01)**

[25] EN

[54] **ENCRYPTION/DECRYPTION USING KEY ENCAPSULATION/DECAPSULATION**

[54] **CHIFFREMENT/DECHIFFREMENT AU MOYEN D'ENCAPSULATION/DESENCAPSULATION DE CLE**

[72] SHARIFIAN, SETAREH, CA
[72] SAFAVI-NAEINI, REYHANEH, CA
[71] UTI LIMITED PARTNERSHIP, CA

[85] 2024-04-25
[86] 2022-10-27 (PCT/CA2022/051596)
[87] (WO2023/070219)
[30] US (17/514,762) 2021-10-29

[21] **3,236,619**
[13] A1

[51] **Int.Cl. C07D 265/30 (2006.01) A61K 31/5377 (2006.01)**

[25] EN

[54] **2-(ARYL-2-YL) MORPHOLINE AND DEUTERATED DERIVATIVE THEREOF, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**

[54] **2-(ARYL-2-YL)MORPHOLINE ET DERIVE DEUTERE DE CELLE-CI, SON PROCEDE DE PREPARATION ET SON APPLICATION**

[72] SU, YIDONG, CN
[72] LI, KAILONG, CN
[72] HUANG, ZHIQIANG, CN
[72] DENG, HAINING, CN
[72] ZHOU, XIAOHAN, CN
[72] YU, WENSHENG, CN

[71] SHANGHAI HANSOH BIOMEDICAL CO., LTD., CN

[71] JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., CN

[85] 2024-04-29
[86] 2022-11-04 (PCT/CN2022/129881)
[87] (WO2023/078392)

[30] CN (202111301874.7) 2021-11-04
[30] CN (202210066119.3) 2022-01-20
[30] CN (202210065986.5) 2022-01-20
[30] CN (202210398665.7) 2022-04-15
[30] CN (202211104724.1) 2022-09-09
[30] CN (202211105290.7) 2022-09-09

[21] **3,236,621**
[13] A1

[51] **Int.Cl. A01G 9/14 (2006.01) A01G 9/18 (2006.01) A01G 31/06 (2006.01)**

[25] EN

[54] **VERTICAL FARM SYSTEM**

[54] **SYSTEME DE FERME VERTICALE**

[72] THOMAS, AMBROSI, IT
[71] ONO EXPONENTIAL FARMING S.R.L., IT

[85] 2024-04-29
[86] 2022-10-27 (PCT/IB2022/060328)
[87] (WO2023/073602)
[30] IT (102021000027740) 2021-10-29

[21] **3,236,622**
[13] A1

[51] **Int.Cl. B29C 64/264 (2017.01) B33Y 30/00 (2015.01) B29C 64/20 (2017.01) B29C 64/307 (2017.01) B33Y 40/20 (2020.01) B29C 35/08 (2006.01)**

[25] EN

[54] **3D PRINTING AND CURING DEVICE**

[54] **DISPOSITIF D'IMPRESSON 3D ET DE DURCISSEMENT**

[72] WANG, XINGJIE, CN
[72] FENG, QIKAI, CN
[72] GAO, LUSHENG, CN
[72] CHEN, MING, CN
[72] ZHANG, JING, CN
[72] JIN, LIANG, CN

[71] ZHEJIANG XUNSHI TECHNOLOGY CO., LTD., CN

[85] 2024-04-25
[86] 2021-12-29 (PCT/CN2021/142613)
[87] (WO2023/123090)

[21] **3,236,624**
[13] A1

[51] **Int.Cl. C07D 209/14 (2006.01) A61K 31/4045 (2006.01) A61P 25/04 (2006.01) A61P 25/18 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **FORMULATIONS OF PSILOCYBIN ANALOGS AND METHODS OF USE**

[54] **FORMULATIONS D'ANALOGUES DE PSILOCYBINE ET PROCEDES D'UTILISATION**

[72] NIVOROZHKIN, ALEX, US
[72] PALFREYMAN, MICHAEL, US
[72] PATHARE, PRADIP M., US
[72] AVERY, KENNETH L., US
[72] SHUKOOR, MOHAMMED I., US
[72] HUANG, JAMES HE, US
[72] MORGAN, MICHAEL E., US
[72] KRAKOWSKY, JOAN M., US

[71] CYBIN IRL LIMITED, IE

[85] 2024-04-29
[86] 2022-09-20 (PCT/EP2022/076073)
[87] (WO2023/078604)
[30] US (63/276,117) 2021-11-05
[30] EP (PCT/EP2022/056991) 2022-03-17

Demandes PCT entrant en phase nationale

[21] **3,236,626**
[13] A1

[51] **Int.Cl. F03D 7/04 (2006.01) F03D 9/11 (2016.01)**
[25] EN
[54] **WIND POWER GENERATION APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE PRODUCTION D'ENERGIE EOLIENNE**
[72] SHI, ZHENTANG, CN
[72] ZHANG, HONGYANG, CN
[72] DONG, CUICUI, CN
[72] DONG, JIE, CN
[72] TAO, LINAN, CN
[72] LI, JUN, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
[85] 2024-04-25
[86] 2022-10-25 (PCT/CN2022/127337)
[87] (WO2023/072056)
[30] CN (202111267812.9) 2021-10-29

[21] **3,236,627**
[13] A1

[51] **Int.Cl. B01J 29/03 (2006.01)**
[25] EN
[54] **HYDROGENATION CATALYST AND PREPARATION METHOD THEREFOR AND USE THEREOF, AND HYDROGENATION REACTION METHOD FOR OIL PRODUCTS**
[54] **CATALYSEUR D'HYDROGENATION ET SON PROCEDE DE PREPARATION ET SON UTILISATION, ET PROCEDE DE REACTION D'HYDROGENATION POUR DES PRODUITS PETROLIERS**
[72] LIU, LI, CN
[72] YANG, CHENGMIN, CN
[72] ZHENG, BUMEI, CN
[72] GUO, RONG, CN
[72] DUAN, WEIYU, CN
[72] YAO, YUNHAI, CN
[72] CHEN, XIAOZHEN, CN
[72] SUN, JIN, CN
[72] YIN, XIAOYING, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
[85] 2024-04-25
[86] 2022-10-26 (PCT/CN2022/127557)
[87] (WO2023/072117)
[30] CN (202111278954.5) 2021-10-31

[21] **3,236,628**
[13] A1

[51] **Int.Cl. B60K 17/24 (2006.01) F16F 15/08 (2006.01)**
[25] EN
[54] **CENTER BEARING SUPPORT**
[54] **SUPPORT DE PALIER CENTRAL**
[72] RYU, YOSHIHISA, JP
[71] NOK CORPORATION, JP
[85] 2024-04-29
[86] 2022-12-08 (PCT/JP2022/045354)
[87] (WO2023/120222)
[30] JP (2021-206093) 2021-12-20

[21] **3,236,629**
[13] A1

[51] **Int.Cl. C03B 5/12 (2006.01) C03B 5/235 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING A MELT FOR THE PRODUCTION OF MAN-MADE MINERAL FIBRES**
[54] **PROCEDE DE PREPARATION D'UNE MASSE FONDUE POUR LA PRODUCTION DE FIBRES MINERALES ARTIFICIELLES**
[72] ELMEKILDE HANSEN, LARS, DK
[72] ZHOU, HAOSHENG, DK
[71] ROCKWOOL A/S, DK
[85] 2024-04-29
[86] 2022-11-04 (PCT/EP2022/080868)
[87] (WO2023/079108)
[30] EP (21206795.3) 2021-11-05

[21] **3,236,630**
[13] A1

[51] **Int.Cl. B65H 19/26 (2006.01) B65H 19/28 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR A TURN-UP PROCEDURE USING AN ADHESIVE PAPERBAND COMPOSITE**
[54] **PROCEDES ET APPAREIL POUR UNE PROCEDURE DE RETOURNEMENT A L'AIDE D'UN COMPOSITE DE RUBAN DE PAPIER ADHESIF**
[72] RODRIGUEZ, PETER, US
[72] AUSTIN, CRAIG, US
[72] RODRIGUEZ, JASON, US
[72] RODRIGUEZ, VICTOR, US
[71] PAPELTEC OVERSEAS, INC., US
[85] 2024-04-29
[86] 2022-10-31 (PCT/US2022/048483)
[87] (WO2023/076699)
[30] US (63/274,083) 2021-11-01
[30] US (17/977,949) 2022-10-31

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[21] **3,236,631**
[13] A1

[51] **Int.Cl. E04F 13/08 (2006.01) E04F 13/14 (2006.01)**
[25] FR
[54] **DEVICE FOR ATTACHING A CLADDING PANEL TO A STRUCTURE**
[54] **DISPOSITIF DE FIXATION D'UN PANNEAU DE BARDAGE SUR UNE STRUCTURE**
[72] GIACOMETTI, SYLVIANNE, FR
[72] CHAPEL, ROMAIN, FR
[71] SB INGENIERIE, FR
[85] 2024-04-29
[86] 2022-10-26 (PCT/EP2022/080016)
[87] (WO2023/073068)
[30] FR (FR2111549) 2021-10-29

[21] **3,236,632**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/45 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **DEGRADATION AGENT AND USE THEREOF**
[54] **AGENT DE DEGRADATION ET SON UTILISATION**
[72] LIU, CHUAN, CN
[72] LIU, JINMING, CN
[72] DOU, DENGFEANG, CN
[72] TAI, ZHENGFU, CN
[72] LI, JIN, CN
[72] GE, JUNYOU, CN
[72] ZHANG, WEI, CN
[72] XIA, SHUAI, CN
[72] XIANG, SICHUAN, CN
[72] LUO, LINFU, CN
[72] SHEN, JIANBO, CN
[72] CAI, LONGYING, CN
[72] CHEN, QIUXIA, CN
[72] LIU, QIAN, CN
[72] HUANG, HUI, CN
[72] YANG, XIAOJIAO, CN
[72] TIAN, QIANG, CN
[72] SONG, HONGMEI, CN
[71] HITGEN INC., CN
[71] SICHUAN KELUN-BIOTECH BIOPHARMACEUTICAL CO., LTD., CN
[85] 2024-04-25
[86] 2022-11-15 (PCT/CN2022/131968)
[87] (WO2023/088245)
[30] CN (202111375053.8) 2021-11-17
[30] CN (202210653756.0) 2022-06-10

[21] **3,236,633**
[13] A1

[51] **Int.Cl. A61H 11/00 (2006.01) A61H 9/00 (2006.01)**
[25] EN
[54] **ARTIFICIAL MUSCLE MASSAGE GARMENT WITH COILED ELEMENTS IN OR ON TEXTILE FABRIC**
[54] **VETEMENT DE MASSAGE DE MUSCLE ARTIFICIEL AVEC ELEMENTS ENROULES DANS OU SUR UN TISSU TEXTILE**
[72] THOPPEY, NAGARAJAN, DE
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2024-04-25
[86] 2021-11-05 (PCT/EP2021/080812)
[87] (WO2023/078562)

[21] **3,236,634**
[13] A1

[51] **Int.Cl. F28D 9/00 (2006.01) F28D 21/00 (2006.01) F28F 9/00 (2006.01)**
[25] FR
[54] **HEAT EXCHANGER COMPRISING AT LEAST ONE LATERAL ENCASULATION PLATE, AIR CONDITIONING SYSTEM AND VEHICLE**
[54] **ECHANGEUR DE CHALEUR COMPRENANT AU MOINS UNE PLAQUE LATERALE D'ENCAPSULAGE, SYSTEME DE CONDITIONNEMENT D'AIR ET VEHICULE**
[72] BONNIVARD, FLORIAN, FR
[72] RAMOUSSE, ARNAUD, FR
[72] RICARD, DIDIER, FR
[71] LIEBHERR-AEROSPACE TOULOUSE SAS, FR
[85] 2024-04-29
[86] 2022-12-22 (PCT/EP2022/087635)
[87] (WO2023/143841)
[30] FR (FR2200723) 2022-01-27

[21] **3,236,635**
[13] A1

[51] **Int.Cl. C07K 7/64 (2006.01) A61P 9/10 (2006.01) A61P 17/02 (2006.01) C07K 1/04 (2006.01)**
[25] EN
[54] **DUAL-TARGETING COMPOUND FOR FIBROBLAST ACTIVATION PROTEIN (FAP) AND INTEGRIN .ALPHA.V.BETA.3, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **COMPOSE A DOUBLE CIBLAGE DIRIGE POUR LA PROTEINE (FAP) D'ACTIVATION DES FIBROBLASTES ET L'INTEGRINE .ALPHA.V.BETA.3, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] CHEN, XIAOYUAN, CN
[72] XU, PENGFEI, CN
[72] WU, XIAOMING, CN
[72] GUO, ZHIDE, CN
[72] YANG, QINGBAO, CN
[72] WEN, XUEJUN, CN
[71] YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD., CN
[85] 2024-04-29
[86] 2023-09-26 (PCT/CN2023/121284)
[87] (WO2024/067531)
[30] CN (202211203390.3) 2022-09-29

[21] **3,236,636**
[13] A1

[51] **Int.Cl. B01J 19/08 (2006.01) B01J 8/00 (2006.01) B01J 8/02 (2006.01) C10K 1/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR GAS CONVERSION**
[54] **DISPOSITIF ET PROCEDE DE CONVERSION DE GAZ**
[72] BOGAERTS, ANNEMIE, BE
[72] GIRARD-SAHUN, FANNY, BE
[72] TRENCHÉV, GEORGI, BE
[71] UNIVERSITEIT ANTWERPEN, BE
[85] 2024-04-25
[86] 2022-10-25 (PCT/EP2022/079789)
[87] (WO2023/078735)
[30] EP (21206103.0) 2021-11-02

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[21] **3,236,637**
[13] A1

[51] **Int.Cl. A23G 1/00 (2006.01) A23G 1/50 (2006.01) A23G 1/54 (2006.01) A23G 1/56 (2006.01)**

[25] EN

[54] **FLOATABLE FOOD PRODUCT FOR MELTING AND/OR DISSOLVING IN A LIQUID**

[54] **PRODUIT ALIMENTAIRE FLOTTANT POUR LA FUSION ET/OU LA DISSOLUTION DANS UN LIQUIDE**

[72] DECOCK, FRANK, BE

[71] DECOCK, FRANK, BE

[85] 2024-04-25

[86] 2022-10-26 (PCT/EP2022/079929)

[87] (WO2023/073015)

[30] BE (2021/5835) 2021-10-26

[21] **3,236,638**
[13] A1

[51] **Int.Cl. A61K 9/51 (2006.01) A61K 47/22 (2006.01) A61K 47/24 (2006.01) A61K 47/28 (2006.01) C07D 241/04 (2006.01) C07D 295/15 (2006.01)**

[25] EN

[54] **LIPID NANOPARTICLES FOR OLIGONUCLEOTIDE DELIVERY**

[54] **NANOPARTICULES LIPIDIQUES POUR L'ADMINISTRATION D'OLIGONUCLEOTIDES**

[72] VALEMBOIS, SOPHIE, BE

[72] HAQUE, AKM, ASHIQUL, BE

[72] SAHU, ITISHRI, BE

[72] MC CAFFERTY, SEAN, BE

[72] CARDON, CHRISTIAAN, BE

[71] ZIPHIUS NV, BE

[85] 2024-04-25

[86] 2022-11-02 (PCT/EP2022/080576)

[87] (WO2023/078946)

[30] EP (21205899.4) 2021-11-02

[21] **3,236,640**
[13] A1

[51] **Int.Cl. H02G 3/04 (2006.01) H02G 11/02 (2006.01)**

[25] EN

[54] **CONDUIT FITTINGS FOR CONDUIT AND CABLE INSTALLATIONS**

[54] **RACCORDS DE CONDUITS POUR INSTALLATIONS DE CONDUITS ET DE CABLES**

[72] VOELZKE, STEVEN A., US

[72] STRICKLIN, TABITHA, US

[72] HENLEY, CHRISTOPHER ROBERT, US

[71] ROBROY INDUSTRIES - TEXAS, LLC, US

[85] 2024-04-29

[86] 2022-11-01 (PCT/US2022/048554)

[87] (WO2023/076720)

[30] US (63/274,241) 2021-11-01

[21] **3,236,641**
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) C12N 15/10 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **ERROR PRONE DNA POLYMERASE FOR ORGANELLE MUTATION**

[54] **ADN POLYMERASE SUJETTE AUX ERREURS POUR MUTATION D'ORGANITES**

[72] JI, JUNWEI, GB

[72] DAY, ANIL, GB

[71] THE UNIVERSITY OF MANCHESTER, GB

[85] 2024-04-29

[86] 2021-11-01 (PCT/GB2021/052823)

[87] (WO2023/073333)

[21] **3,236,642**
[13] A1

[51] **Int.Cl. C02F 1/461 (2006.01) C02F 1/463 (2006.01)**

[25] EN

[54] **ELECTROCHEMICAL APPARATUS FOR ELECTROCOAGULATION METHODS AND USES THEREOF**

[54] **APPAREIL ELECTROCHIMIQUE POUR PROCEDES D'ELECTROCOAGULATION ET SON UTILISATION**

[72] DOS SANTOS RODRIGUES, ANTONIO JOSE, PT

[72] MELES FREIRE DE OLIVEIRA, CARLOS MIGUEL, PT

[71] VENTILAQUA, S.A, PT

[85] 2024-04-29

[86] 2022-10-31 (PCT/IB2022/060484)

[87] (WO2023/073666)

[30] PT (117537) 2021-10-30

[21] **3,236,643**
[13] A1

[51] **Int.Cl. A01G 9/20 (2006.01) F21V 29/15 (2015.01) E04C 2/52 (2006.01) F21V 5/00 (2018.01) F21V 8/00 (2006.01) F21V 9/04 (2018.01) F21V 9/06 (2018.01) G02B 6/00 (2006.01)**

[25] EN

[54] **LIGHT-TRANSMITTING PANEL FOR BUILDINGS AND METHOD OF USING SAME**

[54] **PANNEAU TRANSMETTANT DE LA LUMIERE POUR BATIMENTS ET SON PROCEDE D'UTILISATION**

[72] GERMAIN, CHARLES-BENOIT, CA

[71] 9416-1999 QUEBEC INC., CA

[85] 2024-04-29

[86] 2021-10-29 (PCT/CA2021/051538)

[87] (WO2023/070193)

PCT Applications Entering the National Phase

[21] **3,236,645**
[13] A1

[51] **Int.Cl. G21C 23/00 (2006.01) G21G 1/02 (2006.01)**
[25] EN
[54] **DEVICE FOR SUBJECTING PROBES TO IRRADIATION IN THE CORE OF A HEAVY WATER REACTOR, DIVERTER, INSTALLATION FOR PRODUCING ACTIVATED PROBES IN THE CORE OF A HEAVY WATER REACTOR AND HEAVY WATER REACTOR**
[54] **DISPOSITIF POUR SOUMETTRE DES SONDAS A UNE IRRADIATION DANS LE COEUR D'UN REACTEUR A EAU LOURDE, DEFLECTEUR, INSTALLATION POUR PRODUIRE DES SONDAS ACTIVEES DANS LE COEUR D'UN REACTEUR A EAU LOURDE ET REACTEUR A EAU LOURDE**
[72] SYKORA, ALEXANDER, DE
[72] LOW, PATRICK, DE
[72] WAGNER, SEBASTIAN, DE
[71] FRAMATOME GMBH, DE
[85] 2024-04-29
[86] 2021-11-30 (PCT/EP2021/083641)
[87] (WO2023/098981)

[21] **3,236,646**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **NOVEL ANTI-L1CAM ANTIBODY**
[54] **NOUVEL ANTICORPS ANTI-L1CAM**
[72] WANG, JI, CN
[72] DING, ZHILOU, CN
[72] CHEN, ZHIHONG, CN
[72] GU, JINMING, CN
[72] CUI, DONGBING, CN
[72] YANG, QIUMEI, CN
[71] CURON BIOPHARMACEUTICAL (SHANGHAI) CO., LIMITED, CN
[85] 2024-04-29
[86] 2022-11-01 (PCT/CN2022/128854)
[87] (WO2023/078224)
[30] CN (202111296133.4) 2021-11-03
[30] CN (202210022509.0) 2022-01-10

[21] **3,236,649**
[13] A1

[51] **Int.Cl. B65B 17/02 (2006.01) B65D 71/50 (2006.01)**
[25] EN
[54] **MULTIPACK AND METHOD FOR PRODUCING A MULTIPACK**
[54] **EMBALLAGE GROUPE ET PROCEDE DE PRODUCTION D'UN EMBALLAGE GROUPE**
[72] HAIDACHER, PETER, DE
[72] KREIS, MARCUS, DE
[72] RENZ, MARCUS, DE
[72] SPINDLER, HERBERT, DE
[71] KRONES AKTIENGESELLSCHAFT, DE
[85] 2024-04-29
[86] 2022-10-25 (PCT/EP2022/079742)
[87] (WO2023/083602)
[30] DE (10 2021 129 507.6) 2021-11-12

[21] **3,236,650**
[13] A1

[51] **Int.Cl. A01C 23/00 (2006.01) A01M 7/00 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEM, AND METHOD FOR CALIBRATION OF LIQUID FERTILIZER DISTRIBUTION**
[54] **APPAREIL, SYSTEME ET PROCEDE DESTINE A L'ETALONNAGE D'UNE DISTRIBUTION D'ENGRAIS LIQUIDE**
[72] NOLTE, STEVE, US
[72] WILLIS, PHILIP, US
[72] WILLIAMS, DENNY, US
[72] FLUGUM, AUSTIN, US
[71] KINZE MANUFACTURING, INC., US
[85] 2024-04-29
[86] 2022-11-04 (PCT/US2022/048965)
[87] (WO2023/081360)
[30] US (63/263,608) 2021-11-05

[21] **3,236,651**
[13] A1

[51] **Int.Cl. B01D 29/82 (2006.01) B30B 9/12 (2006.01) F26B 5/14 (2006.01) F26B 15/26 (2006.01) F26B 17/00 (2006.01) F26B 17/20 (2006.01) F26B 25/02 (2006.01)**
[25] EN
[54] **SEPARATOR DEVICE FOR DEWATERING WET MATTER**
[54] **DISPOSITIF DE SEPARATION POUR LA DESHYDRATATION DE MATIERE HUMIDE**
[72] KRAMPE, PAUL, DE
[72] BURHORST, TORSTEN, DE
[72] HOFFMANN, LUKAS, DE
[71] VOGELSANG GMBH & CO. KG, DE
[85] 2024-04-25
[86] 2022-10-24 (PCT/EP2022/079549)
[87] (WO2023/072814)
[30] DE (10 2021 128 199.7) 2021-10-28

[21] **3,236,653**
[13] A1

[51] **Int.Cl. A61K 9/51 (2006.01) A61K 47/22 (2006.01) A61K 47/24 (2006.01) A61K 47/28 (2006.01) C07D 241/04 (2006.01) C07D 295/15 (2006.01)**
[25] EN
[54] **LIPID NANOPARTICLES FOR OLIGONUCLEOTIDE DELIVERY**
[54] **NANOPARTICULES LIPIDIQUES POUR L'ADMINISTRATION D'OLIGONUCLEOTIDES**
[72] HAQUE AKM, ASHIQUL, BE
[72] VALEMBOIS, SOPHIE, BE
[72] MC CAFFERTY, SEAN, BE
[72] SAHU, ITISHRI, BE
[72] CARDON, CHRISTIAAN, BE
[71] ZIPHIUS NV, BE
[85] 2024-04-25
[86] 2022-11-02 (PCT/EP2022/080581)
[87] (WO2023/078950)
[30] EP (21205904.2) 2021-11-02
[30] EP (22179399.5) 2022-06-16

Demandes PCT entrant en phase nationale

[21] **3,236,655**
[13] A1

[51] **Int.Cl. A01C 23/00 (2006.01) A01M 7/00 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND APPARATUS FOR LIQUID FERTILIZER DRAWBACK**

[54] **SYSTEMES, PROCEDES ET APPAREIL POUR DEGRADATION D'ENGRAIS LIQUIDE**

[72] NOLTE, STEVE, US
[72] WILLIS, PHILIP, US
[72] WILLIAMS, DENNY, US
[72] FLUGUM, AUSTIN, US
[71] KINZE MANUFACTURING, INC., US
[85] 2024-04-29
[86] 2022-11-04 (PCT/US2022/048958)
[87] (WO2023/081355)
[30] US (63/263,605) 2021-11-05

[21] **3,236,656**
[13] A1

[51] **Int.Cl. C04B 22/06 (2006.01)**

[25] EN

[54] **METAL-CEMENT BASED CONCRETES AND METHODS FOR MAKING SAME**

[54] **BETONS A BASE DE METAL-CIMENT ET LEURS PROCEDES DE FABRICATION**

[72] RUSSELL, MATTHEW F., US
[71] RUSSELL, MATTHEW F., US
[85] 2024-04-29
[86] 2022-10-31 (PCT/US2022/000023)
[87] (WO2023/075824)
[30] US (17/300,773) 2021-11-01

[21] **3,236,657**
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) C12P 19/34 (2006.01)**

[25] EN

[54] **NOVEL TERMINAL DEOXYNUCLEOTIDYL TRANSFERASE (TDT) VARIANT AND USES THEREOF**

[54] **NOUVEAU VARIANT DE DESOXYRIBONUCLEOTIDYL-TRANSFERASE TERMINALE (TDT) ET UTILISATIONS CONNEXES**

[72] MCHALE, DANIEL, FR
[72] DEGROTTE, FLORENT, FR
[72] JAZIRI, FATEN, FR
[72] SOSKINE, MIKHAEL, FR
[72] SUNE, ELODIE, FR
[72] CHAMPION, ELISE, FR
[71] DNA SCRIPT, FR
[85] 2024-04-29
[86] 2022-11-10 (PCT/EP2022/081547)
[87] (WO2023/083997)
[30] FR (FR2111980) 2021-11-10

[21] **3,236,658**
[13] A1

[51] **Int.Cl. D04H 1/4334 (2012.01) D04H 1/4374 (2012.01) A41D 31/102 (2019.01)**

[25] EN

[54] **COMPOSITE FABRIC CONTAINING BIO-BASED FIBERS**

[54] **TISSU COMPOSITE CONTENANT DES FIBRES D'ORIGINE BIOLOGIQUE**

[72] KESHAVARAJ, RAMESH, US
[71] MILLIKEN & COMPANY, US
[85] 2024-04-29
[86] 2022-10-31 (PCT/US2022/048400)
[87] (WO2023/081093)
[30] US (63/274,747) 2021-11-02
[30] US (17/975,941) 2022-10-28

[21] **3,236,660**
[13] A1

[51] **Int.Cl. G02F 1/025 (2006.01) G02F 1/21 (2006.01) G02F 1/225 (2006.01)**

[25] EN

[54] **III-V/SI HYBRID MOS OPTICAL MODULATOR WITH A TRAVELING-WAVE ELECTRODE**

[54] **MODULATEUR OPTIQUE MOS HYBRIDE III-V/SI DOTE D'UNE ELECTRODE A ONDES PROGRESSIVES**

[72] LI, QIANG, SG
[72] LUO, XIANSHU, SG
[71] ADVANCED MICRO FOUNDRY PTE. LTD., SG
[85] 2024-04-29
[86] 2021-11-11 (PCT/SG2021/050692)
[87] (WO2023/086009)

[21] **3,236,661**
[13] A1

[51] **Int.Cl. B60L 5/16 (2006.01) B60L 50/53 (2019.01)**

[25] EN

[54] **CONTACT FORCE CONTROLLING IN A TROLLEY-ASSISTED MINING VEHICLE**

[54] **COMMANDE DE FORCE DE CONTACT DANS UN VEHICULE D'EXPLOITATION MINIERE ASSISTE PAR UN CHARIOT**

[72] JUNTUNEN, RAIMO, FI
[72] VERHO, SAMULI, FI
[71] SANDVIK MINING AND CONSTRUCTION OY, FI
[85] 2024-04-29
[86] 2023-04-03 (PCT/EP2023/058656)
[87] (WO2023/194295)
[30] EP (22166866.8) 2022-04-06

PCT Applications Entering the National Phase

[21] **3,236,662**
[13] A1

[51] **Int.Cl. E04B 1/62 (2006.01) E04F 19/00 (2006.01) E06B 3/263 (2006.01)**

[25] EN

[54] **STRUCTURAL COMPONENT, WITH LOW EMISSIVITY MATERIALS, FOR USE IN A BUILDING STRUCTURE**

[54] **COMPOSANT STRUCTURAL, A MATERIAUX A FAIBLE EMISSIVITE, DESTINE A ETRE UTILISE DANS UNE STRUCTURE DE BATIMENT**

[72] ZAFARI, FARHAD, CA
[72] DEZEN, VIC, CA
[72] DE ZEN, COLBY, CA
[71] DEZEN, VIC, CA
[71] DE ZEN, COLBY, CA
[85] 2024-04-29
[86] 2022-10-28 (PCT/CA2022/051603)
[87] (WO2023/070225)
[30] US (63/273,793) 2021-10-29
[30] US (63/399,559) 2022-08-19

[21] **3,236,663**
[13] A1

[51] **Int.Cl. H05K 7/20 (2006.01) H01R 24/40 (2011.01) H01R 24/00 (2011.01) H02J 13/00 (2006.01) H03M 13/05 (2006.01) H04B 1/16 (2006.01)**

[25] EN

[54] **LOW NOISE BLOCK-DOWNCONVERTER SYSTEM**

[54] **SYSTEME DE BLOC-CONVERTISSEUR ABAISSEUR A FAIBLE BRUIT**

[72] KHOUDIAKOV, SERGUEI, CA
[72] GOUTERMAN, ALEXEI, CA
[72] REZVANI ABKENARI, MEHDI, CA
[71] ORBITAL RESEARCH LTD., CA
[85] 2024-04-29
[86] 2022-11-02 (PCT/CA2022/051624)
[87] (WO2023/077226)
[30] US (63/274,933) 2021-11-02

[21] **3,236,664**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 9/50 (2006.01) A61K 31/7105 (2006.01) A61K 31/7125 (2006.01) A61K 38/46 (2006.01) A61P 7/00 (2006.01) C12N 9/22 (2006.01) C12N 15/10 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR PREVENTING, AMELIORATING, OR TREATING SICKLE CELL DISEASE**

[54] **COMPOSITIONS ET METHODES DE PREVENTION, D'ATTENUATION OU DE TRAITEMENT DE LA DREPANOCYTOSE**

[72] LEAVITT, BLAIR, CA
[72] HILL, AUSTIN, CA
[72] WAGNER, PAMELA, CA
[72] CARON, NICHOLAS, CA
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[71] INCISIVE GENETICS, INC., CA
[85] 2024-04-29
[86] 2022-11-02 (PCT/IB2022/060572)
[87] (WO2023/079465)
[30] US (63/274,630) 2021-11-02

[21] **3,236,665**
[13] A1

[51] **Int.Cl. C08J 11/14 (2006.01) C08J 11/22 (2006.01) C08J 11/28 (2006.01)**

[25] EN

[54] **NEW METHOD FOR RECYCLING OF POLYURETHANE**

[54] **NOUVEAU PROCEDE DE RECYCLAGE DE POLYURETHANE**

[72] BORCHERS, GEORG, DE
[72] MULLER, HUBERT, DE
[72] RODER, JORG, DE
[72] HINRICHS-TONTRUP, NATALIA, DE
[72] MESS, BRIGITTE, DE
[72] FISCHER, MALTE, DE
[72] LAZAR, MARINA, DE
[72] BLESGEN, ANDREE, DE
[72] HILDEBRAND, JENS, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2024-04-29
[86] 2022-10-28 (PCT/EP2022/080259)
[87] (WO2023/078802)
[30] EP (21206262.4) 2021-11-03

[21] **3,236,666**
[13] A1

[51] **Int.Cl. A61K 31/416 (2006.01) A61K 31/407 (2006.01) A61K 31/69 (2006.01) A61K 38/05 (2006.01) A61K 38/06 (2006.01) A61K 38/07 (2006.01) A61P 35/00 (2006.01) C07D 231/56 (2006.01) C07D 491/044 (2006.01) C07F 5/04 (2006.01) C07K 5/00 (2006.01)**

[25] EN

[54] **USE OF SODIUM TRANS-[TETRACHLORIDOBIS(1H-INDAZOLE)RUTHENATE(III)] TO AMELIORATE PROTEASOME INHIBITOR RESISTANCE**

[54] **UTILISATION DE TRANS-[TETRACHLORIDOBIS (1H-INDAZOLE) RUTHENATE(III)] DE SODIUM POUR REMEDIER A LA RESISTANCE AUX INHIBITEURS DU PROTEASOME**

[72] RAHA, PAROMITA, CA
[72] BAZETT, MARK, CA
[72] MCALLISTER, EDWARD RUSSELL, CA
[72] PANKOVICH, JAMES, CA
[72] CRAWFORD, LISA, GB
[71] BOLD THERAPEUTICS INC., CA
[85] 2024-04-29
[86] 2022-10-24 (PCT/CA2022/051569)
[87] (WO2023/070199)
[30] US (63/272,979) 2021-10-28

[21] **3,236,667**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01)**

[25] EN

[54] **METHOD FOR TREATING MYASTHENIA GRAVIS WITH TACI-FC FUSION PROTEIN**

[54] **METHODE DE TRAITEMENT DE LA MYASTHENIE GRAVE AVEC UNE PROTEINE DE FUSION TACI-FC**

[72] FANG, JIANMIN, CN
[72] WANG, WENXIANG, CN
[71] REMEGEN CO., LTD., CN
[85] 2024-04-29
[86] 2023-06-07 (PCT/CN2023/098731)
[87] (WO2023/236967)
[30] CN (202210644750.7) 2022-06-08

Demandes PCT entrant en phase nationale

[21] **3,236,668**
[13] A1

[51] **Int.Cl. C21D 9/46 (2006.01) C22C 38/00 (2006.01) C22C 38/14 (2006.01) C22C 38/32 (2006.01)**

[25] EN

[54] **HOT-ROLLED STEEL SHEET, HOT-DIP COATED STEEL SHEET, AND METHOD FOR PRODUCING HOT-ROLLED STEEL SHEET**

[54] **TOLE D'ACIER LAMINEE A CHAUD, TOLE D'ACIER PLAQUEE PAR IMMERSION A CHAUD ET PROCEDE DE FABRICATION DE TOLE D'ACIER LAMINEE A CHAUD**

[72] HIRATA, KENTAROU, JP
[72] OKA, MASAHARU, JP
[72] SAKAKI, MASAHITO, JP
[72] SAITO, MAMORU, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2024-04-29
[86] 2022-09-22 (PCT/JP2022/035288)
[87] (WO2023/084926)
[30] JP (2021-185120) 2021-11-12

[21] **3,236,669**
[13] A1

[51] **Int.Cl. B23K 23/00 (2006.01) B23K 37/06 (2006.01)**

[25] EN

[54] **FIELD-APPLIED SYSTEM AND METHOD TO PRODUCE THERMITE WELDS**

[54] **SYSTEME ET PROCEDE APPLIQUES SUR UN CHAMP POUR PRODUIRE DES SOUDURES ALUMINOTHERMIQUES**

[72] ROBLES HERNANDEZ, FRANCISCO CARLOS, US
[72] TAYLOR, SHELTON RAY, US
[71] UNIVERSITY OF HOUSTON SYSTEM, US
[85] 2024-04-29
[86] 2022-11-08 (PCT/US2022/049274)
[87] (WO2023/081510)
[30] US (63/276,899) 2021-11-08

[21] **3,236,670**
[13] A1

[51] **Int.Cl. C07D 207/404 (2006.01)**

[25] EN

[54] **DEUTERATED FUNCTIONALIZED DERIVATIVES OF .ALPHA.-ALANINE, IN PARTICULAR FOR THE TREATMENT OF NEUROLOGICAL DISEASES**

[54] **DERIVES DE L'ALPHA-ALANINE, PROCEDE DE PREPARATION ET UTILISATION DE CELUI-CI**

[72] KAMINSKI, KRZYSZTOF, PL
[72] ABRAM, MICHAL, PL
[72] KAMINSKI, RAFAL, PL
[72] JAKUBIEC, MARCIN, PL
[71] UNIWERSYTET JAGIELLONSKI, PL
[85] 2024-04-29
[86] 2022-11-24 (PCT/PL2022/050083)
[87] (WO2023/096512)
[30] PL (P.439639) 2021-11-24

[21] **3,236,671**
[13] A1

[51] **Int.Cl. C22B 3/18 (2006.01)**

[25] EN

[54] **BIOREACTOR SYSTEM TO PRODUCE METAL**

[54] **SYSTEME DE BIOREACTEUR POUR PRODUIRE UN METAL**

[72] RODRIGUEZ, MARC, US
[71] ECOBIOME HOLDINGS, LLC, US
[85] 2024-04-29
[86] 2022-11-03 (PCT/US2022/079241)
[87] (WO2023/081773)
[30] US (63/275,058) 2021-11-03

[21] **3,236,672**
[13] A1

[51] **Int.Cl. C03C 17/36 (2006.01)**

[25] FR

[54] **MATERIAL COATED WITH A FUNCTIONAL COATING COMPRISING A HIGH-INDEX LAYER**

[54] **MATERIAU REVETU D'UN REVETEMENT FONCTIONNEL COMPRENANT UNE COUCHE HAUT INDICE**

[72] BARRES, THOMAS, FR
[72] TOUMAR, ALEXANDRA, FR
[72] RONDEAU, VERONIQUE, FR
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2024-04-29
[86] 2022-11-18 (PCT/FR2022/052120)
[87] (WO2023/089282)
[30] FR (FR2112288) 2021-11-19

[21] **3,236,674**
[13] A1

[51] **Int.Cl. A21D 2/36 (2006.01) A21D 2/26 (2006.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01)**

[25] EN

[54] **A METHOD TO OBTAIN A PROTEIN-RICH LUPIN FLOUR, A PROTEIN-RICH LUPIN FLOUR AND ITS USES THEREOF**

[54] **PROCEDE D'OBTENTION D'UNE FARINE DE LUPIN RICHE EN PROTEINES, FARINE DE LUPIN RICHE EN PROTEINES ET SES UTILISATIONS**

[72] NDIAYE, MBALO, FR
[72] GALET, OLIVIER, FR
[72] BIANEIS, MARINE, FR
[71] AVRIL, FR
[85] 2024-04-29
[86] 2022-12-01 (PCT/EP2022/083983)
[87] (WO2023/099636)
[30] EP (21306678.0) 2021-12-01

[21] **3,236,675**
[13] A1

[51] **Int.Cl. A61K 9/12 (2006.01) A61K 47/69 (2017.01) A61K 31/40 (2006.01) A61K 39/39 (2006.01)**

[25] EN

[54] **LIPID FORMULATIONS CONTAINING NUCLEIC ACIDS AND METHODS OF TREATMENT FOR CYSTIC FIBROSIS**

[54] **FORMULATIONS LIPIDIQUES CONTENANT DES ACIDES NUCLEIQUES ET METHODES DE TRAITEMENT DE LA FIBROSE KYSTIQUE**

[72] PEREZ-GARCIA, CARLOS G., US
[72] TACHIKAWA, KIYOSHI, US
[72] MATSUDA, DAIKI, US
[72] CHIVUKULA, PADMANABH, US
[72] KARMALI, PRIYA PRAKASH, US
[72] BAO, YANJIE, US
[72] VEGA, JEREL BOYD LEE, US
[72] MUKTHAVARAM, RAJESH, US
[72] SAGI, AMIT, US
[72] PEI, YIHUA, US
[71] ARCTURUS THERAPEUTICS, INC., US
[85] 2024-04-29
[86] 2022-11-03 (PCT/US2022/079244)
[87] (WO2023/081776)
[30] US (63/275,402) 2021-11-03

PCT Applications Entering the National Phase

[21] **3,236,676**
[13] A1

[51] **Int.Cl. B65D 47/20 (2006.01) B65D 25/48 (2006.01)**
[25] EN
[54] **SEALING UNIT FOR A LIQUID CONTAINER**
[54] **UNITE D'ETANCHEITE POUR RECIPIENT LIQUIDE**
[72] GEBBINK, JEROEN GERRIT ANTON, NL
[72] KNUTSEN, RUNE KRISTIAN, NO
[71] SMARTSEAL AS, NL
[85] 2024-04-29
[86] 2022-10-31 (PCT/EP2022/080393)
[87] (WO2023/073237)
[30] NL (2029562) 2021-10-29

[21] **3,236,677**
[13] A1

[51] **Int.Cl. A61K 38/47 (2006.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **METHODS FOR USE OF VIRAL VECTOR CONSTRUCTS FOR THE TREATMENT OF FABRY DISEASE**
[54] **PROCEDES D'UTILISATION DE CONSTRUCTIONS DE VECTEURS VIRAUX POUR LE TRAITEMENT DE LA MALADIE DE FABRY**
[72] PASSALACQUA, CRISTOBAL, US
[72] HUSTON, MARSHALL, US
[72] SOUBERBIELLE, BERNARD, US
[71] SANGAMO THERAPEUTICS, INC., US
[85] 2024-04-29
[86] 2022-11-03 (PCT/US2022/079249)
[87] (WO2023/081781)
[30] US (63/275,390) 2021-11-03
[30] US (63/373,826) 2022-08-29

[21] **3,236,678**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **IMMUNE CELLS WITH CHIMERIC ANTIGEN RECEPTORS OR CHIMERIC AUTOANTIBODY RECEPTORS**
[54] **CELLULES IMMUNITAIRES COMPRENANT RECEPTEURS ANTIGENIQUES CHIMERIQUES OU RECEPTEURS AUTO-ANTICORPS CHIMERIQUES**
[72] HIGGINS, JOSEPH J., US
[72] TABIBIAZAR, RAY, US
[72] HARANDI, OMID F., US
[72] NAVARRO, FRANCISCO, US
[72] HEMPHILL, JAMES B., US
[72] LAMORA, JOSHUA, US
[71] SALIOGEN THERAPEUTICS, INC., US
[85] 2024-04-29
[86] 2022-11-04 (PCT/US2022/079288)
[87] (WO2023/081811)
[30] US (63/275,777) 2021-11-04

[21] **3,236,679**
[13] A1

[51] **Int.Cl. A62C 3/02 (2006.01) A62C 31/12 (2006.01) A62C 35/68 (2006.01) A62C 37/36 (2006.01) A62C 35/60 (2006.01)**
[25] EN
[54] **NETWORKS, SYSTEMS AND METHODS HAVING A HYDRATION PLAN CONTROL SYSTEM FOR WILDFIRE MITIGATION**
[54] **RESEAUX, SYSTEMES ET PROCEDES AYANT UN SYSTEME DE COMMANDE DE PLAN D'HYDRATATION POUR ATTENUER LES FEUX DE FORET**
[72] STATTER, HARRY A., US
[72] SIMMONS, MICHAEL L., US
[71] HAS LLC, US
[85] 2024-04-29
[86] 2022-11-02 (PCT/US2022/048742)
[87] (WO2023/081234)
[30] US (63/274,900) 2021-11-02

[21] **3,236,680**
[13] A1

[51] **Int.Cl. A01N 59/02 (2006.01) C05D 9/02 (2006.01) C09K 17/02 (2006.01)**
[25] EN
[54] **AGRICULTURAL METHODS AND USES FOR THE MODULATION OF REDOX POTENTIAL IN SOIL AND/OR PLANT TISSUE**
[54] **PROCEDES AGRICOLES ET UTILISATIONS POUR LA MODULATION DU POTENTIEL REDOX DANS LE SOL ET/OU LE TISSU VEGETAL**
[72] MUTEAU, REGIS, BE
[72] DE BAUW, PIETERJAN, BE
[72] TOMASI, ISABELLA, BE
[71] TESSENDERLO GROUP NV, BE
[85] 2024-04-29
[86] 2022-11-02 (PCT/EP2022/080560)
[87] (WO2023/078935)
[30] EP (21205868.9) 2021-11-02

[21] **3,236,681**
[13] A1

[51] **Int.Cl. A01D 34/74 (2006.01) A01D 34/66 (2006.01) A01D 34/685 (2006.01) A01D 34/78 (2006.01)**
[25] EN
[54] **THRUST-DRIVEN MOTION VEGETATION CUTTING DEVICE AND METHOD FOR CONTROLLING THE SAME**
[54] **DISPOSITIF DE COUPE DE VEGETATION A MOUVEMENT ENTRAINE PAR POUSSEE ET SON PROCEDE DE COMMANDE**
[72] KAVE, DENNIS MATTHEW, US
[72] KAVE, TYLER MATTHEW, US
[72] KAVE, LAUREN ANNE, US
[71] KAVE, DENNIS MATTHEW, US
[85] 2024-04-29
[86] 2022-11-03 (PCT/US2022/079191)
[87] (WO2023/081736)
[30] US (63/360,861) 2021-11-05

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[21] **3,236,682**
[13] A1

[51] **Int.Cl. D02G 3/46 (2006.01) D03D 15/283 (2021.01) D03D 1/02 (2006.01) D03D 13/00 (2006.01)**

[25] EN

[54] **AIRBAG FABRICS WITH IMPROVED SEAM PERFORMANCE**

[54] **TISSUS POUR AIRBAG A PERFORMANCES DE COUTURE AMELIOREES**

[72] HUNT, NEIL, US
[72] OTT, JENNA, US
[72] VISWANATH, ANAND, US
[71] INVISTA TEXTILES (U.K.) LIMITED, GB

[85] 2024-04-29
[86] 2023-01-10 (PCT/IB2023/050220)
[87] (WO2023/144638)
[30] US (63/304,155) 2022-01-28

[21] **3,236,683**
[13] A1

[51] **Int.Cl. B43K 24/02 (2006.01) B43K 3/04 (2006.01) B43K 24/03 (2006.01) B43K 24/08 (2006.01)**

[25] EN

[54] **MECHANICAL PENCIL AND OPERATION METHOD THEREOF**

[54] **PORTEMINE ET SON PROCEDE DE FONCTIONNEMENT**

[72] SONG, YINGYING, CN
[71] WENZHOU JIANXI STATIONERY CO., LTD., CN

[85] 2024-04-29
[86] 2022-06-15 (PCT/CN2022/098831)
[87] (WO2023/071224)
[30] CN (202111274299.6) 2021-10-29
[30] CN (202111512533.4) 2021-12-11
[30] CN (202210296414.8) 2022-03-24

[21] **3,236,684**
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) C12N 15/113 (2010.01) C12N 9/22 (2006.01)**

[25] EN

[54] **MOBILE ELEMENTS AND CHIMERIC CONSTRUCTS THEREOF**

[54] **ELEMENTS MOBILES ET CONSTRUCTIONS CHIMERIQUES CORRESPONDANTES**

[72] HIGGINS, JOSEPH J., US
[72] TABIBIAZAR, RAY, US
[72] CRAIG, NANCY, US
[71] SALOGEN THERAPEUTICS, INC., US

[85] 2024-04-29
[86] 2022-11-04 (PCT/US2022/079292)
[87] (WO2023/081814)
[30] US (63/275,778) 2021-11-04
[30] US (63/408,186) 2022-09-20
[30] US (63/350,775) 2022-06-09
[30] US (63/331,433) 2022-04-15

[21] **3,236,685**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING MICROPARTICLES CONTAINING POORLY SOLUBLE DRUGS**

[54] **PROCEDE DE PREPARATION DE MICROPARTICULES CONTENANT DES MEDICAMENTS FAIBLEMENT SOLUBLES**

[72] KIM, JU HEE, KR
[71] INVENTAGE LAB INC., KR

[85] 2024-04-29
[86] 2022-11-17 (PCT/KR2022/018216)
[87] (WO2023/090899)
[30] KR (10-2021-0159539) 2021-11-18
[30] KR (10-2022-0154290) 2022-11-17

[21] **3,236,686**
[13] A1

[51] **Int.Cl. H01L 29/30 (2006.01) H01L 23/29 (2006.01) H01L 29/12 (2006.01)**

[25] EN

[54] **OPTO-ELECTRONIC DEVICE WITH NANOPARTICLE DEPOSITED LAYERS**

[54] **DISPOSITIF OPTOELECTRONIQUE AYANT DES COUCHES A DEPOT DE NANOPARTICULES**

[72] HELANDER, MICHAEL, CA
[72] WANG, ZHIBIN, CA
[72] CHANG, YI-LU, CA
[72] WANG, QI, CA
[71] OTI LUMIONICS INC., CA

[85] 2024-04-29
[86] 2021-10-29 (PCT/IB2021/060062)
[87] (WO2022/091041)
[30] US (63/107,393) 2020-10-29
[30] US (63/153,834) 2021-02-25
[30] US (63/163,453) 2021-03-19
[30] US (63/181,100) 2021-04-28

[21] **3,236,687**
[13] A1

[51] **Int.Cl. B01J 21/04 (2006.01) B01J 21/06 (2006.01) B01J 23/10 (2006.01) B01J 23/40 (2006.01) B01J 23/63 (2006.01) B01J 35/00 (2024.01) B01J 37/08 (2006.01) C01G 25/00 (2006.01)**

[25] EN

[54] **ALUMINIUM AND ZIRCONIUM-BASED MIXED OXIDE**

[54] **OXYDE MIXTE A BASE D'ALUMINIUM ET DE ZIRCONIUM**

[72] OHTAKE, NAOTAKA, JP
[72] NISHIMURA, KAORU, JP
[72] SASAKI, TOSHIHIRO, JP
[72] SHOZUI, TETSUYA, JP
[71] RHODIA OPERATIONS, FR

[85] 2024-04-29
[86] 2022-11-24 (PCT/EP2022/083184)
[87] (WO2023/099338)
[30] EP (21306679.8) 2021-12-01

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[21] **3,236,688**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 31/445 (2006.01) A61K 31/573 (2006.01) A61K 45/06 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL KIT FOR PARENTERAL CO-ADMINISTRATION**

[54] **KIT PHARMACEUTIQUE POUR CO-ADMINISTRATION PARENTERALE**

[72] KIM, GEONHO, KR
[72] LEE, JINWOO, KR
[72] JUNG, HYEJUNG, KR
[72] CHOI, JAEMOOK, KR
[72] BYUN, JEONGSU, KR
[72] LEE, JUHAN, KR
[72] SEOL, EUNYOUNG, KR
[72] LEE, HEEYONG, KR
[71] G2GBIO, INC., KR
[85] 2024-04-29
[86] 2022-11-07 (PCT/KR2022/017384)
[87] (WO2023/080753)
[30] KR (10-2021-0151652) 2021-11-05
[30] KR (10-2022-0110883) 2022-09-01

[21] **3,236,689**
[13] A1

[51] **Int.Cl. C10J 3/52 (2006.01)**

[25] EN

[54] **PROCESSING AND GASIFICATION OF CONSTRUCTION AND DEMOLITION MATERIALS**

[54] **TRAITEMENT ET GAZEIFICATION DE MATERIAUX DE CONSTRUCTION ET DE DEMOLITION**

[72] SIMONPIETRI, MARIE-JOELLE, US
[72] WADAS, ZACHARY, US
[71] SIMONPIETRI ENTERPRISES LLC, US
[85] 2024-04-29
[86] 2022-10-28 (PCT/US2022/078925)
[87] (WO2023/077097)
[30] US (63/273,589) 2021-10-29

[21] **3,236,690**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01)**

[25] EN

[54] **SUSTAINED-RELEASE INJECTABLE COMPOSITION CONTAINING NALTREXONE AND METHOD FOR PREPARING SAME**

[54] **COMPOSITION INJECTABLE A LIBERATION PROLONGEE CONTENANT DE LA NALTREXONE ET SON PROCEDE DE PREPARATION**

[72] KIM, JU HEE, KR
[71] INVENTAGE LAB INC., KR
[85] 2024-04-29
[86] 2022-11-18 (PCT/KR2022/018258)
[87] (WO2023/090922)
[30] KR (10-2021-0159539) 2021-11-18
[30] KR (10-2022-0154632) 2022-11-17

[21] **3,236,691**
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01) G16H 10/20 (2018.01) G16H 30/20 (2018.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR EVALUATING PATIENT DATA**

[54] **SYSTEME ET PROCEDE DESTINES A L'EVALUATION DE DONNEES DE PATIENT**

[72] DIMARCO, ANTHONY, US
[72] BURDE, JEFFREY, US
[72] GALASKEWICZ, ROBIN, US
[72] WONG, SHIH WEI, US
[72] FULARA, J'DREK, US
[72] MERRIT-LISH, CHRISTOPHER, US
[71] PHYXD INC., US
[85] 2024-04-29
[86] 2022-10-27 (PCT/US2022/048076)
[87] (WO2023/076507)
[30] US (63/273,039) 2021-10-28
[30] US (63/402,689) 2022-08-31

[21] **3,236,692**
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01) B05B 12/04 (2006.01) B05B 12/08 (2006.01) B05B 12/02 (2006.01)**

[25] EN

[54] **VALVE PRIMING AND DEPRIMING**

[54] **AMORCAGE ET DESAMORCAGE DE VALVE**

[72] KROSSCHELL, JUSTIN, US
[72] BURGERS, TRAVIS ALLEN, US
[72] WALTNER, DREW JOHN, US
[71] RAVEN INDUSTRIES, INC., US
[85] 2024-04-29
[86] 2022-11-04 (PCT/US2022/048981)
[87] (WO2023/081371)
[30] US (63/276,144) 2021-11-05

[21] **3,236,693**
[13] A1

[51] **Int.Cl. G06F 21/52 (2013.01) G06F 21/55 (2013.01)**

[25] EN

[54] **ZERO TRUST FILE INTEGRITY PROTECTION**

[54] **PROTECTION D'INTEGRITE DE FICHER A CONFIANCE NULLE**

[72] GUPTA, PIYUSH, IN
[72] KHADE, PRATIK, IN
[72] AHUJA, ROHAN, IN
[71] VIRSEC SYSTEMS, INC., US
[85] 2024-04-29
[86] 2022-12-30 (PCT/US2022/082611)
[87] (WO2023/130063)
[30] IN (202141061833) 2021-12-30
[30] US (63/368,984) 2022-07-21

[21] **3,236,694**
[13] A1

[51] **Int.Cl. A61J 1/14 (2006.01) B65D 41/10 (2006.01) B65D 41/22 (2006.01)**

[25] EN

[54] **DISINFECTING CAP**

[54] **CAPUCHON DE DESINFECTION**

[72] PUN, YUSHEK, US
[72] GUERRERO, JOSEPH, US
[72] REDFIELD, ALEXANDER VINCENT, US
[72] KELLEY, BRIDGET, US
[72] HYLAND, WILLIAM KYLE, US
[71] MEDLINE INDUSTRIES, LP, US
[85] 2024-04-29
[86] 2022-11-04 (PCT/US2022/049051)
[87] (WO2023/081421)
[30] US (63/276,195) 2021-11-05
[30] US (17/981,328) 2022-11-04

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[21] **3,236,695**
[13] A1

[51] **Int.Cl. G06F 21/52 (2013.01) G06F 21/56 (2013.01) G06F 21/57 (2013.01)**
[25] EN
[54] **MEMORY HYBRID-DYNAMIC VULNERABILITY ASSESSMENT EVALUATION DE VULNERABILITE DYNAMIQUE HYBRIDE DE MEMOIRE**
[72] KIM, DANNY, US
[71] VIRSEC SYSTEMS, INC., US
[85] 2024-04-29
[86] 2022-12-29 (PCT/US2022/082511)
[87] (WO2023/129992)
[30] US (63/266,119) 2021-12-29

[21] **3,236,696**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **DIAGNOSTIC AND TREATMENT METHODS FOR ONYCHOMYCOSIS METHODES DE DIAGNOSTIC ET DE TRAITEMENT DE L'ONYCHOMYCOSE**
[72] YAZDANIAN, SHOWKAT MONIKA, CA
[72] VAN-HAM, IRIT ITZHAKI, CA
[71] TOEFX INC., CA
[85] 2024-04-29
[86] 2023-07-28 (PCT/CA2023/051025)
[87] (WO2024/020702)
[30] US (63/393,110) 2022-07-28

[21] **3,236,697**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01) C12Q 1/6806 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DETECTING OROPHARYNGEAL CANCER COMPOSITIONS ET METHODES DE DETECTION DE CANCER OROPHARYNGE**
[72] TAYLOR, WILLIAM R., US
[72] KISIEL, JOHN B., US
[72] MAHONEY, DOUGLAS W., US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US
[85] 2024-04-29
[86] 2022-11-04 (PCT/US2022/079270)
[87] (WO2023/081796)
[30] US (63/276,058) 2021-11-05

[21] **3,236,698**
[13] A1

[51] **Int.Cl. E01C 23/06 (2006.01) E01C 23/088 (2006.01) E01C 23/12 (2006.01)**
[25] EN
[54] **COLD SCARIFICATION AND RECYCLING ASSEMBLY FOR RESTORING A ROAD PAVEMENT, METHODS FOR RESTORING A ROAD SURFACE WITH SUCH ASSEMBLY AND USE OF A MIXTURE OF BITUMEN OR A MIXTURE CONTAINING A HYDROCARBON BINDING AGENT IN SUCH ASSEMBLY ENSEMBLE ET DE RECYCLAGE A FROID POUR RESTAURER UN REVETEMENT ROUTIER, PROCEDES DE RESTAURATION D'UNE SURFACE DE ROUTE AVEC UN TEL ENSEMBLE ET UTILISATION D'UN MELANGE DE BITUME OU D'UN MELANGE CONTENANT UN AGENT LIANT HYDROCARBONE DANS UN TEL ENSEMBLE**
[72] RISI, MIRCO, IT
[71] SIMEX ENGINEERING S.R.L., IT
[85] 2024-04-29
[86] 2022-11-18 (PCT/IB2022/061130)
[87] (WO2023/089547)
[30] IT (102021000029318) 2021-11-19

[21] **3,236,699**
[13] A1

[51] **Int.Cl. D01F 1/10 (2006.01) D01F 6/46 (2006.01) D01F 8/06 (2006.01) E01C 13/08 (2006.01)**
[25] EN
[54] **ARTIFICIAL TURF AND PRODUCTION METHOD GAZON ARTIFICIEL ET PROCEDE DE PRODUCTION**
[72] SICK, STEPHAN, DE
[71] POLYTEX SPORTBELAEGE PRODUKTIONS-GMBH, DE
[85] 2024-04-29
[86] 2022-11-30 (PCT/EP2022/083867)
[87] (WO2023/099574)
[30] US (17/539,551) 2021-12-01

[21] **3,236,700**
[13] A1

[51] **Int.Cl. B01J 20/22 (2006.01) B01D 53/02 (2006.01)**
[25] EN
[54] **APPENDING AMINES TO METAL ORGANIC FRAMEWORKS AJOUT D'AMINES A DES STRUCTURES ORGANOMETALLIQUES**
[72] ABNEY, CARTER W., US
[72] SEO, JULIE J., US
[72] QUAN, WENYING, US
[72] KOROS, WILLIAM J., US
[72] LIVELY, RYAN P., US
[72] PETERS, AARON W., US
[72] IVASHKO, ANNA C., US
[72] KAPELEWSKI, MATTHEW T., US
[72] WESTON, SIMON C., US
[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
[71] GEORGIA TECH RESEARCH CORPORATION, US
[85] 2024-04-29
[86] 2022-11-22 (PCT/US2022/050744)
[87] (WO2023/096909)
[30] US (63/282,796) 2021-11-24

[21] **3,236,701**
[13] A1

[51] **Int.Cl. G06F 11/34 (2006.01) G06Q 10/06 (2023.01) G06F 11/00 (2006.01)**
[25] EN
[54] **SOFTWARE APPLICATION DEVELOPMENT TOOL FOR AUTOMATION OF MATURITY ADVANCEMENT OUTIL DE DEVELOPPEMENT D'APPLICATION LOGICIELLE PERMETTANT L'AUTOMATISATION DE L'AVANCEMENT DE MATURETE**
[72] CHONKAR, HEMENDRA, US
[72] OSTERMUELLER, ERIK, US
[72] SINHA, SHAMBHU, IN
[72] PRABHAKAR, JOSEPH, US
[71] FIDELITY INFORMATION SERVICES, LLC, US
[85] 2024-04-29
[86] 2022-09-29 (PCT/US2022/045161)
[87] (WO2023/075981)
[30] IN (202111049618) 2021-10-29
[30] US (17/551,522) 2021-12-15

PCT Applications Entering the National Phase

[21] **3,236,702**
[13] A1

[51] **Int.Cl. F04B 43/08 (2006.01) F04B 15/02 (2006.01)**
[25] EN
[54] **FACILITATING CONTROL OF FLUID OR SLURRY MOVEMENT IN A COLLAPSIBLE TUBE**
[54] **FACILITATION DE LA COMMANDE DU DEPLACEMENT DE FLUIDE OU DE BOUE DANS UN TUBE PLIABLE**
[72] MCALISTER, STEVEN
ALEXANDER, CA
[72] SOCCI, CARLO ALBERTO MARIA,
CA
[71] SEPRO MINERAL SYSTEMS CORP.,
CA
[85] 2024-04-29
[86] 2022-11-01 (PCT/CA2022/051614)
[87] (WO2023/077219)
[30] US (63/274,871) 2021-11-02

[21] **3,236,703**
[13] A1

[51] **Int.Cl. A61C 7/08 (2006.01)**
[25] EN
[54] **METHOD FOR FORMING AN ORAL APPLIANCE**
[54] **PROCEDE DE FORMATION D'UN APPAREIL BUCCAL**
[72] PHAN, LOC, US
[72] DINH, HUONG, US
[71] SMYLIO INC., US
[85] 2024-04-29
[86] 2022-11-07 (PCT/US2022/079421)
[87] (WO2023/081903)
[30] US (63/276,446) 2021-11-05

[21] **3,236,704**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 27/02 (2006.01) E21B 33/138 (2006.01) E21B 43/112 (2006.01)**
[25] EN
[54] **DOWNHOLE TOOL AND METHOD FOR PERFORATING A DOWNHOLE TUBULAR**
[54] **OUTIL DE FOND DE TROU ET PROCEDE DE PERFORATION D'UN ELEMENT TUBULAIRE DE FOND DE TROU**
[72] CORNELISSEN, ERIK KERST, NL
[72] VAN MOORSEL, SAM GERARD, NL
[72] VAN SCHIE, COEN, NL
[72] NEITELER, ROBERT JAN, NL
[71] SHELL INTERNATIONALE
RESEARCH MAATSCHAPPIJ B.V.,
NL
[85] 2024-04-25
[86] 2022-11-10 (PCT/EP2022/081439)
[87] (WO2023/083946)
[30] EP (21207921.4) 2021-11-12

[21] **3,236,705**
[13] A1

[51] **Int.Cl. D06F 39/04 (2006.01) A47L 15/42 (2006.01) A61L 2/12 (2006.01) D06F 58/26 (2006.01)**
[25] EN
[54] **APPARATUS FOR IMPROVED CLEANING USING MICROWAVE ENERGY**
[54] **APPAREIL POUR UN NETTOYAGE AMELIORE UTILISANT DE L'ENERGIE MICRO-ONDE**
[72] ROSSOUW, MATHYS JOHANNES,
CH
[71] MICROWAVE SOLUTIONS GMBH,
CH
[85] 2024-04-25
[86] 2022-10-12 (PCT/IB2022/059770)
[87] (WO2023/073468)
[30] ZA (2021/06214) 2021-10-27

[21] **3,236,706**
[13] A1

[51] **Int.Cl. B01J 8/06 (2006.01) C01B 3/32 (2006.01) C10K 3/02 (2006.01)**
[25] EN
[54] **IMPROVED CATALYTIC REACTOR FOR THE CONVERSION OF CARBON DIOXIDE AND HYDROGEN TO SYNGAS**
[54] **REACTEUR CATALYTIQUE AMELIORE POUR LA CONVERSION DE DIOXYDE DE CARBONE ET D'HYDROGENE EN GAZ DE SYNTHESE**
[72] SCHUETZLE, DENNIS, US
[72] SCHUETZLE, ROBERT, US
[72] GALLOWAY, ANJA RUMPLECKER,
US
[72] HANBURY, ORION, US
[72] BUCHER, JAMES, US
[72] RODRIGUEZ, RAMER, US
[71] INFINIUM TECHNOLOGY, LLC, US
[85] 2024-04-25
[86] 2022-11-04 (PCT/US2022/000026)
[87] (WO2023/091166)
[30] US (17/300,828) 2021-11-19

[21] **3,236,707**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC VALVE DOCKING DEVICE**
[54] **DISPOSITIF D'ACCUEIL DE PROTHESE VALVULAIRE**
[72] SCHWARTZ, EVAN T., US
[72] NGUYEN, TRAM NGOC, US
[72] CHAU, JOCELYN, US
[72] CAO, HENGCHU, US
[72] PAWAR, SANDIP VASANT, US
[71] EDWARDS LIFESCIENCES
CORPORATION, US
[85] 2024-04-25
[86] 2022-10-13 (PCT/US2022/046563)
[87] (WO2023/091254)
[30] US (63/264,354) 2021-11-19
[30] US (63/363,382) 2022-04-21

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[21] **3,236,708**
[13] A1

[51] **Int.Cl. A61K 31/444 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61K 31/496 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)**

[25] EN
[54] **COMPOUNDS AS GLP-1R AGONISTS**
[54] **COMPOSES UTILISES EN TANT QU'AGONISTES DE GLP-1R**

[72] LUEHR, GARY W., US
[72] REEVES, COREY, US
[72] ROMERO, F. ANTHONY, US
[72] JONES, CHRISTOPHER T., US
[72] FENAUX, MARTIJN, US
[71] TERNS PHARMACEUTICALS, INC., US

[85] 2024-04-25
[86] 2022-10-25 (PCT/US2022/047687)
[87] (WO2023/076237)
[30] US (63/263,003) 2021-10-25

[21] **3,236,709**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) A61K 35/19 (2015.01) A61K 38/01 (2006.01) A61K 38/36 (2006.01) G01N 33/50 (2006.01) G01N 33/567 (2006.01)**

[25] EN
[54] **COMPOSITIONS AND METHODS FOR WOUND HEALING**
[54] **COMPOSITIONS ET METHODES DE CICATRISATION DE PLAIES**

[72] BEHFAR, ATTA, US
[72] MORAN, STEVEN L., US
[72] PARADISE, BROOKE, US
[72] BECHER, LAURA, US
[72] PARADISE, CHRISTOPHER, US
[71] RION INC., US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US

[85] 2024-04-25
[86] 2022-10-25 (PCT/US2022/047721)
[87] (WO2023/076262)
[30] US (63/271,486) 2021-10-25

[21] **3,236,710**
[13] A1

[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/395 (2006.01) A61K 31/505 (2006.01)**

[25] EN
[54] **HUMAN EFFICACIOUS DOSE AND DOSAGE SCHEDULE OF SPR720**
[54] **DOSE EFFICACE HUMAINE ET PROGRAMME DE DOSAGE DE SPR720**

[72] TALLEY, ANGELA, US
[72] MELNICK, DAVID, US
[71] SPERO THERAPEUTICS, INC., US

[85] 2024-04-25
[86] 2022-10-26 (PCT/US2022/047865)
[87] (WO2023/076369)
[30] US (63/272,052) 2021-10-26
[30] US (63/300,145) 2022-01-17

[21] **3,236,711**
[13] A1

[51] **Int.Cl. G01L 15/00 (2006.01)**

[25] EN
[54] **PATIENT POSITION MANAGEMENT DEVICE, SYSTEMS, METHODS OF USE, AND RELATED IMPROVEMENTS THEREOF**
[54] **DISPOSITIF DE GESTION DE POSITION DE PATIENT, SYSTEMES, METHODES D'UTILISATION ET AMELIORATIONS ASSOCIEES**

[72] GAYES, JAMES M., US
[72] SANDELL, LAURENCE M., US
[72] KIMMER, ROBERT J., US
[72] GAYES, DIANE, US
[72] SIGAKIS, MATTHEW, US
[71] OPAD AIRWAY INC., US

[85] 2024-04-25
[86] 2022-10-27 (PCT/US2022/048099)
[87] (WO2023/076525)
[30] US (63/272,655) 2021-10-27

[21] **3,236,712**
[13] A1

[51] **Int.Cl. B01D 61/18 (2006.01) B01D 69/12 (2006.01) G01N 33/48 (2006.01) B01L 3/00 (2006.01)**

[25] EN
[54] **ARTICLES AND METHODS FOR PLASMA SEPARATION**
[54] **ARTICLES ET PROCEDES DE SEPARATION DE PLASMA**

[72] MACE, CHARLES R., US
[72] MORBIOLI, GIORGIO GIANINI, US
[72] BAILLARGEON, KEITH, US
[71] TRUSTEES OF TUFTS COLLEGE, US

[85] 2024-04-25
[86] 2022-10-28 (PCT/US2022/048205)
[87] (WO2023/076585)
[30] US (63/273,740) 2021-10-29
[30] US (63/292,274) 2021-12-21

[21] **3,236,714**
[13] A1

[51] **Int.Cl. B31B 70/62 (2017.01) B31B 70/10 (2017.01) B31B 70/16 (2017.01) B31B 70/26 (2017.01) B31D 5/00 (2017.01) B31F 5/04 (2006.01)**

[25] EN
[54] **APPARATUS AND METHOD FOR MAKING A POUCH PACKAGE**
[54] **APPAREIL ET PROCEDE DE FABRICATION D'EMBALLAGE DE TYPE POCLETTE**

[72] TONEFF, STEVEN M., US
[72] CHEICH, ROBERT C., US
[72] WAGNER, DENNIS J., US
[72] STINARD, BRIAN J., US
[72] YAKUBOUSKI, STANISLAU, US
[71] RANPAK CORP., US

[85] 2024-04-25
[86] 2022-10-28 (PCT/US2022/048281)
[87] (WO2023/076628)
[30] US (63/263,205) 2021-10-28

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[21] **3,236,715**
[13] A1

[51] **Int.Cl. H04L 1/08 (2006.01) H04W 74/08 (2024.01)**
[25] EN
[54] **ADAPTIVE TRANSMISSION MANAGEMENT BASED ON LINK LATENCY**
[54] **GESTION DE TRANSMISSION ADAPTATIVE BASEE SUR UNE LATENCE DE LIAISON**
[72] BARTIER, JEROME, US
[72] MONIER, FABRICE, US
[72] KHALED, YACINE, US
[71] ITRON, INC., US
[85] 2024-04-25
[86] 2022-11-10 (PCT/US2022/049568)
[87] (WO2023/086484)
[30] US (17/527,020) 2021-11-15

[21] **3,236,716**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61N 1/05 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR POSITIONING, IMPLANTING AND USING A STIMULATION LEAD**
[54] **APPAREIL ET METHODE DE POSITIONNEMENT, D'IMPLANTATION ET D'UTILISATION D'UN FIL DE STIMULATION**
[72] BOGGS, JOSEPH W., II, US
[72] WONGSARNPIGOON, AMORN, US
[72] DEBOCK, MATTHEW G., US
[72] MCGEE, MEREDITH J., US
[72] SELL, DEVIN, US
[72] STROTHER, ROBERT B., US
[72] GROSZEK, JOEY, US
[72] CROSBY, NATHAN D., US
[71] SPR THERAPEUTICS, INC., US
[85] 2024-04-25
[86] 2022-11-17 (PCT/US2022/050270)
[87] (WO2023/091582)
[30] US (63/280,413) 2021-11-17
[30] US (63/416,732) 2022-10-17

[21] **3,236,717**
[13] A1

[51] **Int.Cl. A61F 2/958 (2013.01) A61F 2/24 (2006.01) A61M 25/10 (2013.01)**
[25] EN
[54] **CATHETER BALLOON HAVING SEGMENTS OF VARYING COMPLIANCE**
[54] **BALLONNET DE CATHETER AYANT DES SEGMENTS DE CONFORMITE VARIABLE**
[72] ZHU, YIDONG M., US
[72] BULMAN, ERIK, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2024-04-25
[86] 2022-11-29 (PCT/US2022/051159)
[87] (WO2023/101929)
[30] US (63/264,702) 2021-11-30

[21] **3,236,718**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 35/02 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **ENGINEERED SIRP.ALPHA. VARIANTS AND METHODS OF USE THEREOF**
[54] **VARIANTS SIRP.ALPHA. MODIFIES ET LEURS METHODES D'UTILISATION**
[72] WANG, JIIN-TARNG, TW
[72] TENG, HAN-FANG, TW
[72] KUO, PAN-HSIEN, TW
[72] TSENG, CHI-LING, TW
[72] JUO, ZONG SEAN, TW
[71] FBD BIOLOGICS LIMITED, CN
[85] 2024-04-25
[86] 2022-12-09 (PCT/US2022/052373)
[87] (WO2023/121887)
[30] US (63/292,267) 2021-12-21

[21] **3,236,720**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **SYSTEMS AND TECHNIQUES FOR HEART VALVE LEAFLET REPAIR**
[54] **SYSTEMES ET TECHNIQUES DE REPARATION DE FEUILLET VALVULAIRE DE VALVULE CARDIAQUE**
[72] CHAU, MARK, US
[72] OBA, TRAVIS ZENYO, US
[72] SHAFIGH, SAM, US
[72] RABBAH, JEAN-PIERRE MICHEL, US
[72] TAYLOR, DAVID M., US
[72] MARCHAND, PHILIPPE, CA
[72] KUKURA, MADISON PAIGE, US
[72] HERNANDEZ, CRISTOBAL R., US
[72] KHUU, NANCY HOANG, US
[72] DEUSCHL, FLORIAN GEORG, US
[72] DAS, BISWA PRAKASH, US
[72] MAY, ANDREW CHARLES, US
[72] AMIN, BHUMICA A., US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2024-04-25
[86] 2022-12-14 (PCT/US2022/052834)
[87] (WO2023/114289)
[30] US (63/291,291) 2021-12-17
[30] US (63/321,546) 2022-03-18

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[21] **3,236,722**
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/565 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **INJECTABLE PHARMACEUTICAL COMPOSITION FOR TREATMENT OF BREAST CANCER**
[54] **COMPOSITION PHARMACEUTIQUE INJECTABLE POUR LE TRAITEMENT DU CANCER DU SEIN**
[72] PUROHIT, PARVA
YOGESHCHANDRA, IN
[72] SANGLE, GANESH VISHWANATH, IN
[72] MEHTA, SANDIP PARESHBHAI, IN
[72] UNADKAT, VISHAL BHARATBHAI, IN
[72] PANDYA, HETA NISHIL, IN
[72] VEKARIYA, SAGAR LAXMANBHAI, IN
[71] KASHIV BIOSCIENCES, LLC, US
[85] 2024-04-25
[86] 2022-10-29 (PCT/IB2022/060430)
[87] (WO2023/073651)
[30] IN (202121049524) 2021-10-29

[21] **3,236,723**
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) G06F 21/72 (2013.01)**
[25] EN
[54] **PERMISSION MONITORING AND DATA EXCHANGE**
[54] **SURVEILLANCE D'AUTORISATION ET ECHANGE DE DONNEES**
[72] BORSATO, EMERSON PAULO, US
[72] MILLER, WALTER TIMOTHY, US
[72] PIERCE, JONI HANSEN, US
[71] CONSENT VAULT INC., US
[85] 2024-04-25
[86] 2022-05-04 (PCT/US2022/072108)
[87] (WO2022/236282)
[30] US (63/184,042) 2021-05-04
[30] US (17/662,014) 2022-05-04

[21] **3,236,724**
[13] A1

[51] **Int.Cl. E21B 17/10 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **CENTRALIZERS FOR PRODUCTION TUBING**
[54] **CENTREURS POUR TUBE DE PRODUCTION**
[72] NEASE, MARK, US
[71] 360 RESEARCH LABS, LLC, US
[85] 2024-04-25
[86] 2022-10-10 (PCT/US2022/077857)
[87] (WO2023/076802)
[30] US (17/509,443) 2021-10-25

[21] **3,236,725**
[13] A1

[51] **Int.Cl. A61C 19/06 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS OF TREATING ORAL TISSUES**
[54] **DISPOSITIFS ET PROCEDES DE TRAITEMENT DE TISSUS BUCCAUX**
[72] JOHNSON, RICHARD, US
[71] PERIOTECH, LLC, US
[85] 2024-04-25
[86] 2022-10-25 (PCT/US2022/078651)
[87] (WO2023/076896)
[30] US (17/452,874) 2021-10-29

[21] **3,236,726**
[13] A1

[51] **Int.Cl. B01J 19/00 (2006.01) C10G 31/06 (2006.01) F17D 1/16 (2006.01) C10G 99/00 (2006.01)**
[25] EN
[54] **TECHNOLOGIES FOR REDUCING THE VISCOSITY OF CRUDE OIL**
[54] **TECHNOLOGIES DE REDUCTION DE VISCOSITE DE BRUT LOURD**
[72] WOOD, JAMES, US
[72] TREVINO, SERGIO, MX
[71] SOUTHWEST RESEARCH INSTITUTE, US
[85] 2024-04-25
[86] 2022-10-26 (PCT/US2022/078675)
[87] (WO2023/076914)
[30] US (17/452,458) 2021-10-27

[21] **3,236,727**
[13] A1

[51] **Int.Cl. A01N 63/38 (2020.01) A01N 25/12 (2006.01) A01P 21/00 (2006.01) C05F 11/08 (2006.01)**
[25] EN
[54] **A GRANULAR BIOSTIMULANT AS PLANT GROWTH PROMOTER, PROCESSES FOR PREPARING THE SAME AND USES THEREOF**
[54] **BIOSTIMULANT GRANULAIRE UTILISE EN TANT QUE PROMOTEUR DE LA CROISSANCE DES PLANTES, PROCEDES DE PREPARATION DE CELUI-CI ET UTILISATIONS DE CELUI-CI**
[72] PIETARINEN, SUVI, FI
[72] LEONARDI, GIULIANO, AT
[72] HUBSCH, CHRISTIAN, FI
[71] UPM-KYMMENE CORPORATION, FI
[71] GREEN INNOVATION GMBH, AT
[85] 2024-04-24
[86] 2022-11-07 (PCT/EP2022/081007)
[87] (WO2023/083758)
[30] IT (102021000028904) 2021-11-15

[21] **3,236,728**
[13] A1

[51] **Int.Cl. H01Q 15/08 (2006.01) H01Q 1/00 (2006.01) H01Q 1/42 (2006.01) H01Q 15/00 (2006.01) H01Q 19/00 (2006.01) H01Q 19/06 (2006.01)**
[25] EN
[54] **LENS FOR ELECTROMAGNETIC WAVES BASED ON ARTIFICIAL DIELECTRIC MATERIAL**
[54] **LENTILLE ELECTROMAGNETIQUE A BASE DE MATERIAU DIELECTRIQUE ARTIFICIEL**
[72] LI, ZIMENG, CN
[71] GUANGZHOU SIGTENNA TECHNOLOGY CO., LTD., CN
[85] 2024-04-23
[86] 2021-11-12 (PCT/CN2021/130194)
[87] (WO2023/077544)
[30] CN (202111318806.1) 2021-11-08

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[21] **3,236,729**
[13] A1

[51] **Int.Cl. H01M 4/36 (2006.01) H01M 4/134 (2010.01) H01M 10/0525 (2010.01) H01M 4/38 (2006.01) H01M 4/62 (2006.01) H01M 4/02 (2006.01)**

[25] EN

[54] **A POWDER FOR USE IN THE NEGATIVE ELECTRODE OF A BATTERY, A METHOD FOR PREPARING SUCH A POWDER AND A BATTERY COMPRISING SUCH A POWDER**

[54] **POUDRE DESTINEE A ETRE UTILISEE DANS L'ELECTRODE NEGATIVE D'UNE BATTERIE, PROCEDE DE PREPARATION D'UNE TELLE POWDRE ET BATTERIE COMPRENANT UNE TELLE POWDRE**

[72] MOEREMANS, BOAZ, BE
[72] BRIDEL, JEAN-SEBASTIEN, BE
[72] MARX, NICOLAS, BE
[71] UMICORE, BE
[85] 2024-04-25
[86] 2022-10-27 (PCT/EP2022/080056)
[87] (WO2023/073089)
[30] EP (21205537.0) 2021-10-29

[21] **3,236,730**
[13] A1

[51] **Int.Cl. B01D 69/02 (2006.01) C12N 1/02 (2006.01) C12Q 1/06 (2006.01) G01N 33/48 (2006.01)**

[25] EN

[54] **DEVICES FOR CELL SEPARATION**

[54] **DISPOSITIFS DE SEPARATION DE CELLULES**

[72] LING, JIAN, US
[72] WELLINGHOFF, STEPHEN T., US
[72] CANTU, CARLOS MARTIN, US
[72] FERNANDEZ, ANGELICA, US
[71] SOUTHWEST RESEARCH INSTITUTE, US
[85] 2024-04-25
[86] 2022-10-27 (PCT/US2022/078750)
[87] (WO2023/076974)
[30] US (63/263,161) 2021-10-28

[21] **3,236,731**
[13] A1

[51] **Int.Cl. C12N 9/88 (2006.01) A61K 38/51 (2006.01)**

[25] EN

[54] **ENGINEERED LEUCINE DECARBOXYLASES**

[54] **LEUCINE DECARBOXYLASES MODIFIEES**

[72] ASFAHA, JONATHAN BENJAMIN, US
[72] DAS, SUBHAMOY, US
[72] DU, FAYE LOAN, US
[72] JENNE, STEPHAN, US
[72] KRUSE, NIKKI D., US
[72] LIU, JOYCE, US
[72] MCCLUSKIE, KERRY, US
[72] MEHMOOD, ROASA, US
[72] SILVERMAN, ADAM P., US
[72] VALLIEU, KRISTEN JEAN, US
[71] CODEXIS, INC., US
[85] 2024-04-30
[86] 2022-11-01 (PCT/US2022/079089)
[87] (WO2023/077169)
[30] US (63/274,395) 2021-11-01

[21] **3,236,732**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 39/00 (2006.01) A61M 60/00 (2021.01) A61M 60/122 (2021.01) A61M 60/88 (2021.01) A61M 39/08 (2006.01)**

[25] EN

[54] **ELECTRIC AND FLUIDIC CABLES**

[54] **CABLES ELECTRIQUES ET FLUIDIQUES**

[72] BAZDANES, CHRISTOPHER THEODORE, US
[72] SCHAEFER, ROBERT, US
[72] ROY, VINCENT, US
[72] JAHANGIR, EMILIA, US
[71] ABIOMED, INC., US
[85] 2024-04-30
[86] 2022-11-01 (PCT/US2022/048588)
[87] (WO2023/081155)
[30] US (63/274,829) 2021-11-02
[30] US (63/275,278) 2021-11-03

[21] **3,236,733**
[13] A1

[51] **Int.Cl. A63F 9/08 (2006.01) A63H 33/04 (2006.01) A63H 33/26 (2006.01)**

[25] EN

[54] **TRIPLE INVERSION GEOMETRIC TRANSFORMATIONS**

[54] **TRANSFORMATIONS GEOMETRIQUES A TROIS OPTIONS DE RETOURNEMENT**

[72] HOENIGSCHMID, ANDREAS, US
[71] HOENIGSCHMID, ANDREAS, US
[85] 2024-04-30
[86] 2023-05-23 (PCT/US2023/023284)
[87] (WO2024/043961)
[30] US (17/821,178) 2022-08-21

[21] **3,236,734**
[13] A1

[51] **Int.Cl. A61M 1/36 (2006.01) G01R 31/52 (2020.01) A61M 5/50 (2006.01) A61N 1/08 (2006.01) G05B 9/02 (2006.01)**

[25] EN

[54] **GROUNDING ASSURANCE AND VOLTAGE-TO-PATIENT DETECTION FOR PATIENT SAFETY**

[54] **GARANTIE DE MISE A LA TERRE ET DETECTION DE LA TENSION APPLIQUEE AU PATIENT POUR LA SECURITE DU PATIENT**

[72] MILLER, PATRICK, US
[71] NXSTAGE MEDICAL, INC., US
[85] 2024-04-25
[86] 2022-10-27 (PCT/US2022/078766)
[87] (WO2023/091848)
[30] US (63/281,873) 2021-11-22

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[21] **3,236,735**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CANCER WITH A COMBINATION OF AN ANTI-PD-1 ANTIBODY AND AN ANTI-CD30 ANTIBODY-DRUG CONJUGATE**

[54] **METHODES DE TRAITEMENT DU CANCER A L'AIDE D'UNE ASSOCIATION D'UN ANTICORPS ANTI-PD-1 ET D'UN CONJUGUE ANTICORPS ANTI-CD30-MEDICAMENT**

[72] HEISER, RYAN, US
[72] KNOWLES, SCOTT, US
[72] PUHLMANN, MARKUS, US
[71] SEAGEN INC., US
[85] 2024-04-25
[86] 2022-10-27 (PCT/US2022/078767)
[87] (WO2023/076989)
[30] US (63/273,411) 2021-10-29

[21] **3,236,737**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61P 37/02 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **NOVEL PROTEINS**

[54] **NOUVELLES PROTEINES**

[72] ASHFIELD, REBECCA, GB
[72] HUXLEY, PHILIP, GB
[71] DUCENTIS BIOTHERAPEUTICS LIMITED, GB
[85] 2024-04-30
[86] 2022-11-03 (PCT/GB2022/052764)
[87] (WO2023/079278)
[30] GB (2115803.5) 2021-11-03

[21] **3,236,738**
[13] A1

[51] **Int.Cl. B60L 53/12 (2019.01) H02J 50/10 (2016.01) B60L 53/20 (2019.01) B60L 53/24 (2019.01) B60L 53/62 (2019.01) B60L 53/66 (2019.01) H02J 7/02 (2016.01)**

[25] EN

[54] **INTEGRATED WIRELESS CHARGING BOOST RECTIFIER FOR ELECTRIC VEHICLES**

[54] **REDRESSEUR DE SURALIMENTATION SANS FIL INTEGRE POUR VEHICULES ELECTRIQUES**

[72] SEMSAR, SEPEHR, CA
[72] LEHN, PETER WALDEMAR, CA
[72] LUO, ZHICHAO, CA
[72] NIE, SHUANG, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[71] ELEAPPOWER LTD., CA
[85] 2024-04-26
[86] 2022-10-26 (PCT/CA2022/051592)
[87] (WO2023/070215)
[30] US (63/271,938) 2021-10-26

[21] **3,236,739**
[13] A1

[51] **Int.Cl. A61B 5/06 (2006.01) A61B 34/10 (2016.01) A61M 60/867 (2021.01)**

[25] EN

[54] **FLUORO-LESS SYSTEM AND METHOD FOR DELIVERING CATHETER-BASED BLOOD PUMPS**

[54] **SYSTEME ET PROCEDE SANS FLUOR POUR LA MISE EN PLACE DE POMPES D'ASSISTANCE CIRCULATOIRE A CATHETER**

[72] ROY, VINCENT, US
[71] ABIOMED, INC., US
[85] 2024-04-30
[86] 2022-11-02 (PCT/US2022/048660)
[87] (WO2023/081182)
[30] US (63/275,561) 2021-11-04

[21] **3,236,740**
[13] A1

[51] **Int.Cl. A23G 1/44 (2006.01) A23L 11/50 (2021.01) A23G 1/48 (2006.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01)**

[25] EN

[54] **A CHOCOLATE PRODUCT COMPRISING A MILK ANALOGUE PRODUCT**

[54] **PRODUIT DE CHOCOLAT COMPRENANT UN PRODUIT ANALOGUE AU LAIT**

[72] WOOSTER, TIMOTHY JAMES, CH
[72] CELIGUETA TORRES, ISABEL, GB
[72] KAMMERHOFER, JANA CHRISTINA, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-04-30
[86] 2022-11-15 (PCT/EP2022/081945)
[87] (WO2023/084108)
[30] EP (21208241.6) 2021-11-15
[30] EP (21215318.3) 2021-12-16

[21] **3,236,741**
[13] A1

[51] **Int.Cl. B65H 29/24 (2006.01) B65H 39/14 (2006.01)**

[25] EN

[54] **TRANSFER PUCK WITH COMPRESSIBLE SURFACE MEMBER**

[54] **GALET PRESSEUR DE TRANSFERT A ELEMENT DE SURFACE COMPRESSIBLE**

[72] SCHWARTZ, CHRISTOPHER A., US
[72] HORNESS, DARREN R., US
[72] FRITZ, JEFFREY W., US
[72] GIFFEY, ZACHARY J., US
[72] RAMMER, MEGAN A., US
[71] CURT G. JOA, INC., US
[85] 2024-04-30
[86] 2022-12-08 (PCT/US2022/081155)
[87] (WO2023/108052)
[30] US (63/265,124) 2021-12-08

PCT Applications Entering the National Phase

[21] **3,236,742**
[13] A1

[51] **Int.Cl. C07F 9/6524 (2006.01) A61K 51/04 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **RADIOLABELLED COMPOUND, AND PRECURSOR COMPOUND THEREOF, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF**
[54] **COMPOSE RADIOMARQUEUR ET COMPOSE PRECURSEUR CONNEXE, METHODE DE PREPARATION ET APPLICATION CONNEXE**
[72] CHEN, YUE, CN
[72] WANG, YINGWEI, CN
[72] WANG, QIXIN, CN
[72] QIU, LIN, CN
[72] FENG, YUE, CN
[72] WANG, LI, CN
[72] CHEN, ZAN, CN
[72] YANG, JIAN, CN
[72] PENG, DENGSAI, CN
[72] LIU, GUANGFU, CN
[72] XU, TINGTING, CN
[72] XING, NAIGUO, CN
[72] LIU, HANXIANG, CN
[71] THE AFFILIATED HOSPITAL OF SOUTHWEST MEDICAL UNIVERSITY, CN
[85] 2024-04-26
[86] 2022-01-06 (PCT/CN2022/070444)
[87] (WO2023/092830)
[30] CN (202111419244.X) 2021-11-26

[21] **3,236,743**
[13] A1

[51] **Int.Cl. H04W 8/08 (2009.01)**
[25] EN
[54] **PROTOCOL DATA UNIT (PDU) SESSION INFORMATION FOR DIFFERENT NETWORK SERVICE TYPES**
[54] **INFORMATIONS DE SESSION D'UNITE DE DONNEES DE PROTOCOLE (PDU) POUR DIFFERENTS TYPES DE SERVICES DE RESEAU**
[72] TAN, JIE, CN
[72] DAI, BO, CN
[72] SHA, XIUBIN, CN
[72] LU, TING, CN
[72] GAO, YUAN, CN
[71] ZTE CORPORATION, CN
[85] 2024-04-26
[86] 2022-03-15 (PCT/CN2022/080804)
[87] (WO2023/173266)

[21] **3,236,744**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) G16H 50/00 (2018.01) G16B 20/30 (2019.01) G16B 25/10 (2019.01) G06N 3/08 (2023.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR IDENTIFYING GENES ASSOCIATED WITH BIOSYNTHETIC GENE CLUSTERS**
[54] **PROCEDES ET SYSTEMES D'IDENTIFICATION DE GENES ASSOCIES A DES GROUPEES DE GENES BIOSYNTHETIQUES**
[72] HADJITHOMAS, MICHALIS, US
[72] WYKA, STEPHEN ANDREW, US
[72] KIM, JINWOO, US
[72] LIN, YU-CHENG, US
[72] MCFADYEN, IAIN JAMES, US
[72] VERDINE, GREG, US
[71] LIFEMINE THERAPEUTICS, INC., US
[85] 2024-04-30
[86] 2022-11-04 (PCT/US2022/049016)
[87] (WO2023/081396)
[30] US (63/263,638) 2021-11-05
[30] US (63/278,065) 2021-11-10

[21] **3,236,747**
[13] A1

[51] **Int.Cl. C01B 39/38 (2006.01) B01J 29/40 (2006.01)**
[25] EN
[54] **ZSM-5 MOLECULAR SIEVE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF, HYDROTREATMENT CATALYST, HYDRODEWAXING CATALYST, AND APPLICATIONS THEREOF**
[54] **TAMIS MOLECULAIRE ZSM-5, SON PROCEDE DE PREPARATION ET APPLICATION ASSOCIEE, CATALYSEUR D'HYDROTRAITEMENT, CATALYSEUR D'HYDRODEPARAFFINAGE ET APPLICATIONS ASSOCIEES**
[72] HAO, WENYUE, CN
[72] LIU, CHANG, CN
[72] GUO, JUNHUI, CN
[72] CAO, JUNFENG, CN
[72] WANG, FENGLAI, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
[85] 2024-04-26
[86] 2022-10-28 (PCT/CN2022/128201)
[87] (WO2023/072237)
[30] CN (202111269100.0) 2021-10-29

[21] **3,236,748**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-TNFR2 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-TNFR2 ET LEURS UTILISATIONS**
[72] YANG, YONGFEI, CN
[72] CAO, SHUZHEN, CN
[72] ZHANG, JING, CN
[72] SHAO, ZHE, CN
[72] JIANG, XUEYUAN, CN
[71] BIOCYTOGEN PHARMACEUTICALS (BEIJING) CO., LTD., CN
[85] 2024-04-26
[86] 2022-12-22 (PCT/CN2022/140958)
[87] (WO2023/116813)
[30] CN (PCT/CN2021/140487) 2021-12-22

Demandes PCT entrant en phase nationale

[21] **3,236,749**
[13] A1

[51] **Int.Cl. H01M 50/204 (2021.01) H01M 50/242 (2021.01) H01M 50/264 (2021.01)**

[25] EN
[54] **BATTERY PACK**
[54] **BLOC-BATTERIE**
[72] LEE, JAE HYUN, KR
[72] SHIN, JU HWAN, KR
[72] LEE, HYOUNG SUK, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-30
[86] 2023-05-16 (PCT/KR2023/006608)
[87] (WO2023/224354)
[30] KR (10-2022-0059860) 2022-05-16

[21] **3,236,750**
[13] A1

[51] **Int.Cl. H01M 4/13 (2010.01) C01B 32/00 (2017.01) H01M 4/62 (2006.01)**

[25] EN
[54] **NEW CONDUCTIVE ADDITIVE IN LITHIUM AND SODIUM BATTERIES**
[54] **NOUVEL ADDITIF CONDUCTEUR DANS DES BATTERIES AU LITHIUM ET AU SODIUM**
[72] VAN RAALTEN, RUTGER ALEXANDER DAVID, NL
[72] SORDI, DANIELA, NL
[72] TEN DAM, JEROEN, NL
[71] CARBONX B.V., NL
[85] 2024-04-26
[86] 2022-10-25 (PCT/EP2022/079747)
[87] (WO2023/072917)
[30] EP (21204834.2) 2021-10-26

[21] **3,236,753**
[13] A1

[51] **Int.Cl. G06V 10/143 (2022.01) G06V 10/20 (2022.01) G06V 10/26 (2022.01) G06V 10/44 (2022.01) G06V 10/778 (2022.01) G06V 10/80 (2022.01) G06V 10/82 (2022.01) F16C 19/00 (2006.01) F16C 19/52 (2006.01) F16C 33/32 (2006.01) F16C 33/34 (2006.01)**

[25] EN
[54] **SYSTEM FOR TRAINING A DEEP-LEARNING ALGORITHM AND ASSOCIATED METHOD**
[54] **SYSTEME D'APPRENTISSAGE D'UN ALGORITHME D'APPRENTISSAGE PROFOND ET PROCEDE ASSOCIE**
[72] CARREROT, HERVE, FR
[72] HEBRARD, YOANN, FR
[71] SKF AEROSPACE FRANCE S.A.S., FR
[71] AKTIEBOLAGET SKF, SE
[85] 2024-04-26
[86] 2022-10-26 (PCT/EP2022/079878)
[87] (WO2023/078747)
[30] FR (FR2111796) 2021-11-08

[21] **3,236,754**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN
[54] **SPECIFIC CONJUGATION FOR AN ANTIBODY-DRUG CONJUGATE**
[54] **CONJUGAISON SPECIFIQUE POUR UN CONJUGUE ANTICORPS-MEDICAMENT**
[72] ZHAO, ROBERT, US
[72] YANG, QINGLIANG, CN
[72] YE, HANGBO, CN
[72] JIA, JUNXIANG, CN
[72] ZHANG, LINGLI, CN
[72] HUANG, YUANYUAN, CN
[72] LI, WENJUN, CN
[72] WANG, JUAN, CN
[72] GUO, HUIHUI, CN
[72] YE, ZHICANG, CN
[72] ZHAO, LINYAO, CN
[72] BAI, LU, CN
[72] LIU, XIAOLEI, CN
[71] HANGZHOU DAC BIOTECH CO., LTD., CN
[85] 2024-04-30
[86] 2022-11-02 (PCT/CN2022/129122)
[87] (WO2023/078273)
[30] CN (PCT/CN2021/128453) 2021-11-03
[30] CN (PCT/CN2022/123901) 2022-10-08

[21] **3,236,756**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B66C 1/10 (2006.01) B66C 1/66 (2006.01) B66C 17/04 (2006.01)**

[25] EN
[54] **STORAGE SYSTEM**
[54] **SYSTEME DE STOCKAGE**
[72] STUHAUG, RAGNAR, NO
[72] AUSTRHEIM, TROND, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2024-04-30
[86] 2022-07-29 (PCT/EP2022/071443)
[87] (WO2023/072447)
[30] NO (20211317) 2021-11-01

[21] **3,236,757**
[13] A1

[51] **Int.Cl. A61K 31/4418 (2006.01) A61K 31/496 (2006.01) A61K 31/519 (2006.01) A61P 11/00 (2006.01)**

[25] EN
[54] **NEW THERAPEUTIC COMBINATIONS FOR THE TREATMENT OF PROGRESSIVE FIBROSING INTERSTITIAL LUNG DISEASES**
[54] **NOUVELLES COMBINAISONS THERAPEUTIQUES POUR LE TRAITEMENT DE PNEUMOPATHIES INTERSTITIELLES FIBROSANTES PROGRESSIVES**
[72] HESSLINGER, CHRISTIAN, DE
[72] BAUER, VERENA, DE
[72] BOSSERT, SEBASTIAN MARTIN, DE
[72] KOBER, SUSAN, DE
[72] LIU, YI, US
[72] NICKOLAUS, PETER, DE
[72] SARNO, MARIA, DE
[72] VOSS, FLORIAN, DE
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[85] 2024-04-26
[86] 2022-12-08 (PCT/EP2022/084972)
[87] (WO2023/104961)
[30] US (63/287,641) 2021-12-09
[30] EP (21218207.5) 2021-12-29
[30] EP (22177757.6) 2022-06-08

PCT Applications Entering the National Phase

[21] **3,236,761**
[13] A1

[51] **Int.Cl. A23J 1/00 (2006.01) A23J 1/14 (2006.01)**
[25] EN
[54] **PROCESS FOR OBTAINING PROTEINS FROM HEMP**
[54] **PROCEDE D'OBTENTION DE PROTEINES A PARTIR DE CHANVRE**
[72] ULLMANN, DETLEF, DE
[72] KRIENKE, DOMINIK, DE
[72] MANNWEILER, KLAUS, DE
[72] HRUSCHKA, STEFFEN, DE
[71] GEA WESTFALIA SEPARATOR GROUP GMBH, DE
[85] 2024-04-26
[86] 2022-11-08 (PCT/EP2022/081050)
[87] (WO2023/079159)
[30] DE (10 2021 128 968.8) 2021-11-08

[21] **3,236,762**
[13] A1

[51] **Int.Cl. B42D 25/23 (2014.01) B42D 25/24 (2014.01) B42D 25/351 (2014.01) B42D 25/41 (2014.01) B41M 3/14 (2006.01)**
[25] EN
[54] **A METHOD OF MANUFACTURING A SECURITY SHEET AND A SECURITY SHEET**
[54] **PROCEDE DE FABRICATION D'UNE FEUILLE DE SECURITE ET FEUILLE DE SECURITE**
[72] MARTINS, ANNALISE, GB
[72] QUAINTON, SIMON, GB
[72] HUSMANN, CHRISTOPH, GB
[71] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2024-04-26
[86] 2022-11-22 (PCT/EP2022/082761)
[87] (WO2023/089190)
[30] GB (2116783.8) 2021-11-22

[21] **3,236,763**
[13] A1

[51] **Int.Cl. A61J 11/00 (2006.01)**
[25] EN
[54] **NIPPLE AND NIPPLE ASSEMBLY**
[54] **TETINE ET ENSEMBLE TETINE**
[72] BILTON, SIMON LEWIS, GB
[72] KANE, GRACE MCALPINE, GB
[72] KETTYLE, MATTHEW SCOTT, GB
[72] PARKINSON, BLAKE JOHN, GB
[72] CUDWORTH, NICHOLAS, GB
[72] HUME, JOSHUA, GB
[71] MAYBORN (UK) LIMITED, GB
[85] 2024-04-30
[86] 2022-11-11 (PCT/GB2022/052862)
[87] (WO2023/084231)
[30] GB (2116375.3) 2021-11-12

[21] **3,236,764**
[13] A1

[51] **Int.Cl. A61J 11/00 (2006.01)**
[25] EN
[54] **NIPPLE AND NIPPLE ASSEMBLY**
[54] **TETINE ET ENSEMBLE TETINE**
[72] BILTON, SIMON LEWIS, GB
[72] KANE, GRACE MCALPINE, GB
[72] KETTYLE, MATTHEW SCOTT, GB
[72] PARKINSON, BLAKE JOHN, GB
[72] CUDWORTH, NICHOLAS, GB
[71] MAYBORN (UK) LIMITED, GB
[85] 2024-04-30
[86] 2022-11-11 (PCT/GB2022/052863)
[87] (WO2023/084232)
[30] GB (2116379.5) 2021-11-12

[21] **3,236,765**
[13] A1

[51] **Int.Cl. G16B 15/20 (2019.01) G16B 5/00 (2019.01) G16B 30/00 (2019.01) G16B 35/20 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR POLYMER SEQUENCE PREDICTION**
[54] **SYSTEMES ET PROCEDES DE PREDICTION DE SEQUENCE DE POLYMERE**
[72] MCWHIRTER, JAMES LIAM, CA
[72] LAKATOS, GREGORY, CA
[72] DIXIT, SURJIT BHIMARAO, CA
[72] MUKHOPADHYAY, ABHISHEK, CA
[72] FARBER, PATRICK, CA
[71] ZYMEWORKS BC INC., CA
[85] 2024-04-30
[86] 2022-11-01 (PCT/CA2022/051613)
[87] (WO2023/070230)
[30] US (63/274,403) 2021-11-01

[21] **3,236,766**
[13] A1

[51] **Int.Cl. A61J 11/00 (2006.01)**
[25] EN
[54] **INFANT FEEDING ASSEMBLY AND METHOD OF STERILISING**
[54] **ENSEMBLE D'ALIMENTATION POUR NOURRISSONS ET PROCEDE DE STERILISATION**
[72] HUME, JOSHUA, GB
[72] CUDWORTH, NICHOLAS, GB
[72] BILTON, SIMON LEWIS, GB
[72] KETTYLE, MATTHEW SCOTT, GB
[71] MAYBORN (UK) LIMITED, GB
[85] 2024-04-30
[86] 2022-11-11 (PCT/GB2022/052874)
[87] (WO2023/084241)
[30] GB (2116378.7) 2021-11-12

[21] **3,236,768**
[13] A1

[51] **Int.Cl. A23J 3/22 (2006.01) A23L 29/256 (2016.01) A23P 30/10 (2016.01) A23J 3/26 (2006.01)**
[25] EN
[54] **VEGAN SEAFOOD SUBSTITUTE PRODUCT**
[54] **PRODUIT VEGAN DE SUBSTITUTION AUX FRUITS DE MER**
[72] SCHNEIDER, WOLFGANG, DE
[72] GERDES, ANNIKA, DE
[72] SPORKA, RADOVAN, DE
[72] GRABER, ALEXANDER, DE
[72] GALILEY, MEGAN, US
[72] WALESKA, HIDALGO, US
[71] BK GIULINI GMBH, DE
[85] 2024-04-26
[86] 2022-11-30 (PCT/EP2022/083849)
[87] (WO2023/099563)
[30] US (63/284,115) 2021-11-30
[30] EP (21213213.8) 2021-12-08

Demandes PCT entrant en phase nationale

[21] **3,236,772**
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/52 (2006.01) C12P 13/22 (2006.01)**

[25] EN

[54] **PARTICULARLY SUITABLE 3-DESOXYARABINOHEPTULOSANATE-7-PHOSPHATE SYNTHASE FOR THE FERMENTATIVE PREPARATION OF ORTHO-AMINOBENZOIC ACID**

[54] **3-DESOXYARABINOHEPTULOSANATE-7-PHOSPHATE SYNTHASE PARTICULIEREMENT APPROPRIEE POUR LA PRODUCTION FERMENTATIVE D'ACIDE ORTHO-AMINOBENZOIQUE**

[72] KLAFFL, SIMON, DE
[72] SPRENGER, GEORG, DE
[72] GOTTLIEB, KATRIN, DE
[72] YOUN, JUNG-WON, DE
[71] COVESTRO DEUTSCHLAND AG, DE

[85] 2024-04-26
[86] 2022-12-14 (PCT/EP2022/085919)
[87] (WO2023/111055)
[30] EP (21215753.1) 2021-12-17

[21] **3,236,773**
[13] A1

[51] **Int.Cl. G16B 40/00 (2019.01) G16B 15/20 (2019.01) G16B 45/00 (2019.01) G16C 20/00 (2019.01) G16C 20/70 (2019.01) G16C 20/80 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR POLYMER SIDE-CHAIN CONFORMATION PREDICTION**

[54] **SYSTEMES ET PROCEDES DE PREDICTION DE CONFORMATION DE CHAINE LATERALE DE POLYMERE**

[72] MUKHOPADHYAY, ABHISHEK, CA
[72] DIXIT, SURJIT BHIMARAO, CA
[72] GIL LEY, ALEJANDRO, CA
[72] MCWHIRTER, JAMES LIAM, CA
[72] MCMASTER, BENJAMIN JOHN, CA
[72] KADAN, AMIT, CA
[71] ZYMEWORKS BC INC., CA

[85] 2024-04-30
[86] 2022-11-01 (PCT/CA2022/051612)
[87] (WO2023/070229)
[30] US (63/274,444) 2021-11-01

[21] **3,236,774**
[13] A1

[51] **Int.Cl. C12P 13/00 (2006.01) C12N 1/20 (2006.01) C12N 9/10 (2006.01) C12N 9/12 (2006.01) C12N 9/88 (2006.01) C12N 9/92 (2006.01) C12N 15/52 (2006.01)**

[25] EN

[54] **MIXTURES OF GLUCOSE AND XYLOSE FOR THE FERMENTATIVE PREPARATION OF ORTHO-AMINOBENZOIC ACID**

[54] **MELANGES DE GLUCOSE ET DE XYLOSE POUR LA PRODUCTION FERMENTATIVE D'ACIDE ORTHO-AMINOBENZOIQUE**

[72] SPAETH, ANJA, DE
[72] WALTER, FREDERIK, DE
[72] DAVOUDI, CEDRIC, DE
[72] KLOECKNER, WOLF, DE
[72] SCHAFFERT, LENA, DE
[71] COVESTRO DEUTSCHLAND AG, DE

[85] 2024-04-26
[86] 2022-12-14 (PCT/EP2022/085917)
[87] (WO2023/111053)
[30] EP (21215759.8) 2021-12-17

[21] **3,236,775**
[13] A1

[51] **Int.Cl. A61K 8/06 (2006.01) A61K 8/34 (2006.01) A61K 8/37 (2006.01) A61K 8/55 (2006.01) A61K 8/73 (2006.01) A61K 8/92 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS SUITABLE FOR USE IN SKIN CARE**

[54] **COMPOSITIONS APPROPRIEES POUR LE SOIN DE LA PEAU**

[72] LEFEBVRE, MARJORIE, FR
[72] GESLIN, MARIE CECILE, FR
[72] POTIER, JULIE, FR
[71] JOHNSON & JOHNSON CONSUMER INC., US

[85] 2024-04-26
[86] 2022-10-26 (PCT/IB2022/060309)
[87] (WO2023/073590)
[30] EP (21306507.1) 2021-10-27

[21] **3,236,778**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 9/78 (2006.01)**

[25] EN

[54] **NME2CAS9 INLAID DOMAIN FUSION PROTEINS**

[54] **PROTEINES DE FUSION A DOMAINE NME2CAS9 INCRUSTE**

[72] SONTHEIMER, ERIK, US
[72] XUE, WEN, US
[72] ZHANG, HAN, US
[72] BAMIDELE, NATHAN, US
[72] DONG, XIAOLONG, US
[71] UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL, US

[85] 2024-04-30
[86] 2022-10-28 (PCT/US2022/048261)
[87] (WO2023/081070)
[30] US (63/274,667) 2021-11-02

[21] **3,236,779**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61P 1/00 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CROHN'S DISEASE WITH ANTI-IL23 SPECIFIC ANTIBODY**

[54] **METHODES DE TRAITEMENT DE LA MALADIE DE CROHN AVEC UN ANTICORPS SPECIFIQUE ANTI-IL23**

[72] GERMINARO, MATTHEW, US
[72] OLURINDE, MOBOLAJI, US
[72] SAHOO, APARNA, US
[72] YEE, JACQUELINE, US
[72] ADEDOKUN, OMONIYI, US
[71] JANSSEN BIOTECH, INC., US

[85] 2024-04-26
[86] 2022-10-27 (PCT/IB2022/060353)
[87] (WO2023/073615)
[30] US (63/273,239) 2021-10-29

PCT Applications Entering the National Phase

[21] **3,236,781**
[13] A1

[51] **Int.Cl. D21J 7/00 (2006.01) B05D 1/02 (2006.01) B65D 65/46 (2006.01) D21H 21/16 (2006.01) D21J 5/00 (2006.01)**

[25] EN

[54] **FIBER-BASED MICROWAVE BOWLS WITH SELECTIVE SPRAY COATING**

[54] **BOLS MICRO-ONDES A BASE DE FIBRES DOTES D'UN REVETEMENT PAR PULVERISATION SELECTIVE**

[72] CHUNG, YOKE DOU, US
[72] ZHANG, YIYUN, US
[72] GONZALEZ, RIC, US
[72] LUCERO, STEVE, US
[72] WANG, MIN, US
[71] FOOTPRINT INTERNATIONAL, LLC, US
[85] 2024-04-26
[86] 2021-11-17 (PCT/US2021/059605)
[87] (WO2023/075807)
[30] US (17/512,171) 2021-10-27

[21] **3,236,783**
[13] A1

[51] **Int.Cl. D21H 27/00 (2006.01) B41M 5/035 (2006.01) B41M 5/52 (2006.01) D21H 17/00 (2006.01) D21H 19/20 (2006.01) D21H 19/56 (2006.01) D21H 19/60 (2006.01)**

[25] EN

[54] **TRANSFER PAPER FOR SUBLIMATION PRINTING**

[54] **PAPIER TRANSFERT POUR IMPRESSION PAR SUBLIMATION**

[72] DECOMPTE, ALEXANDRE, FR
[72] AVERSA, MARCO, IT
[71] AHLSTROM OYJ, FI
[85] 2024-04-26
[86] 2022-11-04 (PCT/IB2022/060644)
[87] (WO2023/079510)
[30] EP (21206672.4) 2021-11-05

[21] **3,236,785**
[13] A1

[51] **Int.Cl. B29C 70/44 (2006.01) B29C 70/38 (2006.01) B64C 1/14 (2006.01)**

[25] FR

[54] **METHOD FOR PRODUCING A ONE-PIECE COMPOSITE STRUCTURE AND BASIN STRUCTURE PRODUCED USING THIS METHOD**

[54] **PROCEDE DE FABRICATION D'UNE STRUCTURE COMPOSITE MONOBLOC ET STRUCTURE EN BASSINE REALISEE A PARTIR DE CE PROCEDE**

[72] GAIL, PHILIPPE, FR
[72] LAJOUS, HERVE, FR
[71] LATECOERE, FR
[85] 2024-04-30
[86] 2022-10-31 (PCT/EP2022/080389)
[87] (WO2023/083642)
[30] FR (FR2111908) 2021-11-09

[21] **3,236,786**
[13] A1

[51] **Int.Cl. A23L 7/113 (2016.01) A23L 7/109 (2016.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING INSTANT NOODLES TO BE RECONSTITUTED WITH WATER**

[54] **PROCEDE DE FABRICATION DE NOUILLES INSTANTANEEES A FAIRE TREMPER DANS L'EAU**

[72] AKIKUSA, SHINGO, JP
[72] YAMADA, MINORI, JP
[72] NAGAI, TAKAO, JP
[72] TSUDA, YASUYUKI, JP
[72] ISONO, YOKO, JP
[71] NISSHIN FLOUR MILLING INC., JP
[85] 2024-04-26
[86] 2022-10-28 (PCT/JP2022/040322)
[87] (WO2023/080067)
[30] JP (2021-179206) 2021-11-02

[21] **3,236,787**
[13] A1

[51] **Int.Cl. B29C 41/00 (2006.01) B65D 65/46 (2006.01) B65D 81/34 (2006.01) D21H 11/12 (2006.01) D21H 11/14 (2006.01)**

[25] EN

[54] **FIBER-BASED FOOD CONTAINERS**

[54] **RECIPIENTS ALIMENTAIRES A BASE DE FIBRES**

[72] CHUNG, YOKE DOU, US
[72] MOORE, BRANDON M., US
[72] ZHANG, YIYUN, US
[71] FOOTPRINT INTERNATIONAL, LLC, US
[85] 2024-04-26
[86] 2021-12-07 (PCT/US2021/062212)
[87] (WO2023/075809)
[30] US (17/513,801) 2021-10-28

[21] **3,236,790**
[13] A1

[51] **Int.Cl. G16B 20/00 (2019.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR DISCOVERY OF EMBEDDED TARGET GENES IN BIOSYNTHETIC GENE CLUSTERS**

[54] **PROCEDES ET SYSTEMES POUR LA DECOUVERTE DE GENES CIBLES INTEGRES DANS DES GROUPES DE GENES BIOSYNTHETIQUES**

[72] HADJITHOMAS, MICHALIS, US
[72] WYKA, STEPHEN ANDREW, US
[72] KIM, JINWOO, US
[72] LIN, YU-CHENG, US
[72] MCFADYEN, IAIN JAMES, US
[72] VERDINE, GREG, US
[71] LIFEMINE THERAPEUTICS, INC., US
[85] 2024-04-30
[86] 2022-11-04 (PCT/US2022/049040)
[87] (WO2023/081413)
[30] US (63/263,638) 2021-11-05
[30] US (63/278,065) 2021-11-10

Demandes PCT entrant en phase nationale

[21] **3,236,793**
[13] A1

[51] **Int.Cl. C07D 403/04 (2006.01) A61P 3/10 (2006.01) A61P 25/28 (2006.01) C07D 417/04 (2006.01)**

[25] EN

[54] **N-(4-AMINOCYCLOHEXYL)PYRIMIDINE-4-CARBOXAMIDE DERIVATIVES AS CD38 INHIBITORS**

[54] **DERIVES DE N-(4-AMINOCYCLOHEXYL)PYRIMIDINE-4-CARBOXAMIDE EN TANT QU'INHIBITEURS DE CD38**

[72] BURLI, ROLAND, GB

[72] DOYLE, KEVIN, GB

[71] CEREVANCE, INC., US

[85] 2024-04-30

[86] 2022-11-09 (PCT/GB2022/052833)

[87] (WO2023/084206)

[30] GB (2116077.5) 2021-11-09

[21] **3,236,795**
[13] A1

[51] **Int.Cl. F24D 19/10 (2006.01) F24D 3/08 (2006.01) F24D 3/18 (2006.01)**

[25] EN

[54] **HEATING INSTALLATION**

[54] **INSTALLATION DE CHAUFFAGE**

[72] GORANSSON, HANS-GORAN, MT

[71] ENERGY MACHINES APS, DK

[85] 2024-04-30

[86] 2022-12-15 (PCT/EP2022/086117)

[87] (WO2023/117677)

[30] EP (21216044.4) 2021-12-20

[21] **3,236,796**
[13] A1

[51] **Int.Cl. H04L 67/50 (2022.01) H04L 67/1396 (2022.01) H04L 67/306 (2022.01)**

[25] EN

[54] **INTELLIGENT COHORTS FOR NETWORK CONTENT DELIVERY**

[54] **COHORTES INTELLIGENTES PERMETTANT LA DISTRIBUTION DE CONTENU DE RESEAU**

[72] ROACH, PERRY J., CA

[72] WELLS, GEOFFREY, CA

[72] ROBB, ALEXANDER JOHN, CA

[71] NETSWEEPER (BARBADOS) INC., BB

[85] 2024-04-30

[86] 2022-11-02 (PCT/IB2022/060571)

[87] (WO2023/079464)

[30] US (63/274,823) 2021-11-02

[21] **3,236,797**
[13] A1

[51] **Int.Cl. C09C 1/02 (2006.01) B01J 8/10 (2006.01) C09C 3/06 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR PRODUCING CORE-SHELL CALCIUM HYDROXIDE-CALCIUM CARBONATE PARTICLES**

[54] **PROCEDE ET APPAREIL DE PRODUCTION DE PARTICULES DE CARBONATE DE CALCIUM-HYDROXYDE DE CALCIUM NOYAU ENVELOPPE**

[72] HUSEIN, MAEN MOH'D, CA

[72] DARWISH, NOORA NAIF, CA

[71] BIOSENTA INC., CA

[85] 2024-04-30

[86] 2022-11-02 (PCT/CA2022/051620)

[87] (WO2023/077223)

[30] US (63/274,995) 2021-11-03

[30] US (63/391,989) 2022-07-25

[21] **3,236,798**
[13] A1

[51] **Int.Cl. G01S 19/21 (2010.01) G01S 19/22 (2010.01) G01S 19/29 (2010.01) G01S 19/30 (2010.01) G01S 19/32 (2010.01) G01S 19/37 (2010.01)**

[25] EN

[54] **SATELLITE NAVIGATION RECEIVER WITH AGGREGATE CHANNEL DIGITAL BASEBAND PROCESSING**

[54] **RECEPTEUR DE NAVIGATION PAR SATELLITE AVEC TRAITEMENT EN BANDE DE BASE NUMERIQUE DE CANAL AGREGE**

[72] YU, WEI, US

[72] KEEGAN, RICHARD G., US

[72] KAPLAN, MARK P., US

[72] GOODRICH, BRIAN C., US

[72] LI, DAVID M., US

[71] DEERE & COMPANY, US

[85] 2024-04-30

[86] 2022-09-09 (PCT/US2022/076201)

[87] (WO2023/129763)

[30] US (63/295,429) 2021-12-30

[30] US (63/363,277) 2022-04-20

[30] US (17/661,488) 2022-04-29

[30] US (63/268,221) 2022-02-18

[21] **3,236,799**
[13] A1

[51] **Int.Cl. C08G 63/08 (2006.01)**

[25] EN

[54] **A TRIBLOCK COPOLYMER, A PROCESS FOR OBTAINING THEREOF AND USES THEREOF**

[54] **COPOLYMERE TRIBLOC, SON PROCEDE D'OBTENTION ET SES UTILISATIONS**

[72] MARTINEZ CUTILLAS, ALFREDO, ES

[72] OH, SEJIN, ES

[72] MARTINEZ DE ILARDUYA, ANTXON, ES

[72] MARIN RODRIGUEZ, XAVIER, ES

[71] ARTIFICIAL NATURE S.L., ES

[85] 2024-04-30

[86] 2022-10-28 (PCT/EP2022/080298)

[87] (WO2023/078808)

[30] EP (21383008.6) 2021-11-05

[21] **3,236,801**
[13] A1

[51] **Int.Cl. A01N 25/02 (2006.01) A01N 37/02 (2006.01) A01N 59/00 (2006.01) A01P 1/00 (2006.01)**

[25] EN

[54] **IMPROVED FORMULATIONS FOR OXIDATION, BLEACHING AND MICROBIAL CONTROL**

[54] **FORMULATIONS AMELIOREES POUR L'OXYDATION, LE BLANCHIMENT ET LA LUTTE MICROBIOLOGIQUE**

[72] BUSCHMANN, WAYNE E., US

[72] EVENSON, CARL R., US

[71] CLEAN CHEMISTRY, INC., US

[85] 2024-04-30

[86] 2022-11-17 (PCT/US2022/050317)

[87] (WO2023/091610)

[30] US (63/280,479) 2021-11-17

PCT Applications Entering the National Phase

[21] **3,236,802**
[13] A1

[51] **Int.Cl. G16B 30/10 (2019.01) G16B 40/00 (2019.01)**
[25] EN
[54] **SERINE RECOMBINASES**
[54] **RECOMBINASES A SERINE**
[72] BHATT, AMI S., US
[72] DURRANT, MATTHEW G., US
[72] TYCKO, JOSHUA C., US
[72] HSU, PATRICK D., US
[72] FANTON, ALISON, US
[72] BASSIK, MICHAEL C., US
[72] BINTU, LACRAMIOARA, US
[71] THE UNIVERSITY OF CALIFORNIA, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[71] SALK INSTITUTE FOR BIOLOGICAL STUDIES, US
[85] 2024-04-30
[86] 2022-11-03 (PCT/US2022/079227)
[87] (WO2023/081762)
[30] US (63/275,288) 2021-11-03
[30] US (63/322,712) 2022-03-23
[30] US (63/400,868) 2022-08-25

[21] **3,236,803**
[13] A1

[51] **Int.Cl. A61F 5/44 (2006.01) A61F 5/445 (2006.01)**
[25] EN
[54] **OSTOMY POUCH CLOSURE SYSTEM**
[54] **SYSTEME DE FERMETURE DE POCHE DE STOMIE**
[72] BOTTEN, RONALD S., US
[71] HOLLISTER INCORPORATED, US
[85] 2024-04-30
[86] 2022-12-22 (PCT/US2022/053767)
[87] (WO2023/129463)
[30] US (63/294,411) 2021-12-29

[21] **3,236,805**
[13] A1

[51] **Int.Cl. A01N 63/20 (2020.01) A01N 63/28 (2020.01) A01H 3/00 (2006.01) C12N 1/20 (2006.01) C12Q 1/02 (2006.01) A01N 63/22 (2020.01)**
[25] EN
[54] **INCREASED BIOLOGICAL AGENT PERFORMANCE AND REDUCED VARIATION ACROSS AREAS OF APPLICATION**
[54] **PERFORMANCE ACCRUE D'AGENT BIOLOGIQUE ET VARIATION REDUITE DANS DES ZONES D'APPLICATION**
[72] KINKEL, LINDA L., US
[71] BIOCONTROL, LLC, US
[85] 2024-04-30
[86] 2022-11-16 (PCT/US2022/079992)
[87] (WO2023/091973)
[30] US (63/279,975) 2021-11-16

[21] **3,236,807**
[13] A1

[51] **Int.Cl. B03B 9/06 (2006.01)**
[25] EN
[54] **METHOD FOR COMPREHENSIVELY RECYCLING LITHIUM, TANTALUM AND NIOBIUM, SILICON ALUMINUM MICROPOWDER, IRON CONCENTRATE, AND GYPSUM FROM LITHIUM SLAGS**
[54] **PROCEDE DE RECUPERATION COMPLETE DE LITHIUM, DE TANTALE-NIOBIUM, DE MICRO-POUDRE DE SILICIUM-ALUMINIUM, DE CONCENTRE DE MINERAI DE FER ET DE GYPSE A PARTIR DE SCORIES DE LITHIUM**
[72] YIN, ZHIGANG, CN
[72] ZHOU, FU, CN
[72] DENG, XINGXING, CN
[72] XU, CHUAN, CN
[72] GAO, YIBAO, CN
[71] TIANQI LITHIUM GENESIS TECHNOLOGY (SHENZHEN) LTD., CN
[85] 2024-04-30
[86] 2022-11-21 (PCT/CN2022/133160)
[87] (WO2023/098500)
[30] CN (202111455639.5) 2021-12-01

[21] **3,236,808**
[13] A1

[51] **Int.Cl. A61K 47/32 (2006.01) A61K 47/58 (2017.01) A61K 47/69 (2017.01) A61K 9/14 (2006.01)**
[25] EN
[54] **PRODRUG COPOLYMERS AND POLYMERIC MICELLES THEREOF FOR THE DELIVERY OF SHORT-CHAIN FATTY ACIDS, THE PROMOTION OF GUT HEALTH, AND THE TREATMENT OF IMMUNE AND/OR INFLAMMATORY CONDITIONS AND FOOD ALLERGY**
[54] **COPOLYMERES DE PROMEDICAMENTS ET MICELLES POLYMERES DE CEUX-CI POUR L'ADMINISTRATION D'ACIDES GRAS A CHAINE COURTE, LA PROMOTION DE LA SANTE INTESTINALE ET LE TRAITEMENT D'ETATS IMMUNITAIRES ET/OU INFLAMMATOIRES ET D'ALLERGIE ALIMENTAIRE**
[72] HUBBELL, JEFFREY, US
[72] WANG, RUYI, US
[72] CAO, SHIJIE, US
[72] NAGLER, CATHRYN R., US
[72] WILSON, D. SCOTT, US
[72] BASHIR, MOHAMED H., US
[71] THE UNIVERSITY OF CHICAGO, US
[85] 2024-04-30
[86] 2022-11-03 (PCT/US2022/079231)
[87] (WO2023/081765)
[30] US (63/275,260) 2021-11-03
[30] US (63/329,913) 2022-04-12

Demandes PCT entrant en phase nationale

[21] **3,236,809**
[13] A1

[51] **Int.Cl. A61K 31/37 (2006.01) A61K 38/46 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING MICROGLIAL DYSFUNCTION AND IMPROVING METABOLIC DYSFUNCTION**
[54] **PROCEDES ET COMPOSITIONS POUR TRAITER UN DYSFONCTIONNEMENT MICROGLIAL ET AMELIORER UN DYSFONCTIONNEMENT METABOLIQUE**
[72] SZALAY, ANTAL, CH
[72] BLANK, THOMAS, DE
[71] ULTIMATE MEDICINE AG, CH
[71] ALBERT-LUDWIGS-UNIVERSITAT FREIBURG, DE
[85] 2024-04-30
[86] 2022-11-08 (PCT/IB2022/000668)
[87] (WO2023/079366)
[30] US (63/276,996) 2021-11-08

[21] **3,236,811**
[13] A1

[51] **Int.Cl. A61K 8/64 (2006.01)**
[25] EN
[54] **COSMETIC AND PERSONAL CARE COMPOSITIONS COMPRISING RECOMBINANT SILK**
[54] **COMPOSITIONS COSMETIQUES ET DE SOINS PERSONNELS COMPRENANT DE LA SOIE RECOMBINANTE**
[72] WRAY, LINDSAY, US
[71] BOLT THREADS, INC., US
[85] 2024-04-30
[86] 2022-11-02 (PCT/US2022/079160)
[87] (WO2023/081711)
[30] US (63/274,837) 2021-11-02
[30] US (63/302,793) 2022-01-25

[21] **3,236,812**
[13] A1

[51] **Int.Cl. F24F 3/14 (2006.01) F24F 13/20 (2006.01)**
[25] EN
[54] **TWO-PHASE PRE-COOLING METHOD FOR AIR CONDITIONING SYSTEMS**
[54] **PROCEDE DE PRE-REFROIDISSEMENT EN DEUX PHASES POUR SYSTEMES DE CLIMATISATION**
[72] PANDELIDIS, DEMIS LUKASZ, PL
[71] BARYON INC., US
[85] 2024-04-30
[86] 2022-11-15 (PCT/US2022/049886)
[87] (WO2023/086657)
[30] US (63/279,528) 2021-11-15

[21] **3,236,814**
[13] A1

[51] **Int.Cl. C12Q 1/6876 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6823 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR GENE EXPRESSION AND TISSUE OF ORIGIN INFERENCE FROM CELL-FREE DNA**
[54] **SYSTEMES ET PROCEDES D'EXPRESSION GENIQUE ET D'INFERENCE DE TISSU D'ORIGINE A PARTIR D'ADN LIBRE CIRCULANT**
[72] DIEHN, MAXIMILIAN, US
[72] ALIZADEH, ARASH ASH, US
[72] MEHRMOHAMADI, MAHYA, US
[72] SHAHROKH ESFAHANI, MOHAMMAD, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2024-04-30
[86] 2022-11-16 (PCT/US2022/050151)
[87] (WO2023/091517)
[30] US (63/280,305) 2021-11-17

[21] **3,236,815**
[13] A1

[51] **Int.Cl. C07K 14/715 (2006.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **CHIMERIC PROTEINS FOR TREATING CUTANEOUS INFLAMMATION**
[54] **PROTEINES CHIMERIQUES POUR LE TRAITEMENT D'UNE INFLAMMATION CUTANEE**
[72] SCHREIBER, TAYLOR, US
[72] FROMM, GEORGE, US
[72] SHUPTRINE, CASEY, US
[71] SHATTUCK LABS, INC., US
[85] 2024-04-30
[86] 2022-11-01 (PCT/US2022/079046)
[87] (WO2023/077152)
[30] US (63/274,232) 2021-11-01
[30] US (63/369,836) 2022-07-29
[30] US (63/325,568) 2022-03-30
[30] US (63/320,628) 2022-03-16

[21] **3,236,816**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2023.01)**
[25] EN
[54] **AUTOMATED DECISIONING BASED ON PREDICTED USER INTENT**
[54] **PRISE DE DECISION AUTOMATISEE SUR LA BASE D'UNE INTENTION D'UTILISATEUR PREDITE**
[72] D'ALESSANDRO, ANGELO, US
[72] HALEY, BRIAN, US
[71] LIVEPERSON, INC., US
[85] 2024-04-30
[86] 2022-11-02 (PCT/US2022/048685)
[87] (WO2023/081195)
[30] US (63/274,689) 2021-11-02

[21] **3,236,817**
[13] A1

[51] **Int.Cl. E21B 17/02 (2006.01) E21B 33/04 (2006.01)**
[25] EN
[54] **DOWNHOLE JOINT ROTATOR ROTATEUR D'ELEMENT TUBULAIRE DE FOND DE TROU**
[72] PEARCE, CHRISTOPHER A., US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2024-04-30
[86] 2022-11-02 (PCT/US2022/079131)
[87] (WO2023/081692)
[30] US (63/274,991) 2021-11-03

PCT Applications Entering the National Phase

[21] **3,236,819**
[13] A1

[51] **Int.Cl. A61K 8/49 (2006.01) A61K 8/9789 (2017.01) A61K 8/60 (2006.01) A61Q 19/08 (2006.01)**

[25] EN

[54] **EXTRACT OF YOUNG HIBISCUS FLOWERS AND COSMETIC USES**

[54] **EXTRAIT DE JEUNES FLEURS D'HIBISCUS ET UTILISATIONS COSMETIQUES**

[72] PAUFIQUE, JEAN, FR

[72] PERNODET, NADINE, US

[72] CHEN, CHIA-WEN, US

[72] TRIVERO, JACQUELINE MARY, US

[72] CORALLO, KRISTLE, US

[71] SOCIETE INDUSTRIELLE LIMOUSINE D'APPLICATION BIOLOGIQUE, FR

[71] ELC MANAGEMENT LLC, US

[85] 2024-04-30

[86] 2021-11-09 (PCT/EP2021/081149)

[87] (WO2023/083437)

[21] **3,236,821**
[13] A1

[51] **Int.Cl. C07D 401/00 (2006.01) C07D 403/04 (2006.01) C07D 487/00 (2006.01) G01N 23/20 (2018.01)**

[25] EN

[54] **CRYSTALLINE FORMS OF N-((1R,3S)-3-(4-ACETYLPYPERAZIN-1-YL)CYCLOHEXYL)-4-FLUORO-7-METHYL-1H-INDOLE-2-CARBOXAMIDE**

[54] **FORMES CRISTALLINES DE N-((1R,3S)-3-(4-ACETYLPYPERAZIN-1-YL)CYCLOHEXYL)-4-FLUORO-7-METHYL-1H-INDOLE-2-CARBOXAMIDE**

[72] SHI, MEITING, CN

[72] WANG, RUIPING, CN

[72] CONNORS, WILLIAM H., US

[72] RASO, STEPHEN W., US

[71] EPIZYME, INC., US

[71] CONNORS, WILLIAM H., US

[71] RASO, STEPHEN W., US

[85] 2024-04-30

[86] 2022-10-31 (PCT/US2022/078962)

[87] (WO2023/077117)

[30] CN (PCT/CN2021/127945) 2021-11-01

[30] US (63/280,972) 2021-11-18

[21] **3,236,822**
[13] A1

[51] **Int.Cl. A61L 29/08 (2006.01) A61L 29/16 (2006.01)**

[25] EN

[54] **DRUG COATED BALLOON**

[54] **BALLONNET REVETU DE MEDICAMENT**

[72] AL-LAMEE, KADEM, GB

[72] BULLETT, NIAL, GB

[72] SMITH, LYDIA, GB

[72] AHMED, NAVEED, GB

[72] GROVE, WILLIAM, GB

[71] ARTERIUS LIMITED, GB

[85] 2024-04-30

[86] 2022-11-03 (PCT/GB2022/052777)

[87] (WO2023/079290)

[30] GB (2115813.4) 2021-11-03

[21] **3,236,823**
[13] A1

[51] **Int.Cl. A61B 10/00 (2006.01) A61M 25/10 (2013.01)**

[25] EN

[54] **STENT-LIKE CATHETER FOR ISOLATING A REGION IN A HOLLOW ORGAN OF A MAMMAL, AND SYSTEM BASED ON THE CATHETER**

[54] **CATHETER DE TYPE STENT POUR ISOLER UNE REGION DANS UN ORGANE CREUX D'UN MAMMIFERE, ET SYSTEME BASE SUR LE CATHETER**

[72] KASHINTSEV, ALEKSEI ARIEVICH, RU

[72] PROUTSKI, VITALY YURIEVICH, RU

[72] ANISIMOV, SERGEY VLADIMIROVICH, RU

[72] GRANSTREM, OLEG KONSTANTINOVICH, RU

[71] PANDICA LTD, GB

[85] 2024-04-30

[86] 2021-11-01 (PCT/RU2021/000477)

[87] (WO2023/075634)

[21] **3,236,824**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01)**

[25] EN

[54] **MODIFIED MRNA THERAPEUTICS**

[54] **THERAPEUTIQUE ARNM MODIFIEE**

[72] SCHREIBER, TAYLOR, US

[72] FROMM, GEORGE, US

[72] SHUPTRINE, CASEY, US

[71] SHATTUCK LABS, INC., US

[85] 2024-04-30

[86] 2022-11-01 (PCT/US2022/079052)

[87] (WO2023/077156)

[30] US (63/274,232) 2021-11-01

[30] US (63/369,836) 2022-07-29

[30] US (63/325,568) 2022-03-30

[30] US (63/320,628) 2022-03-16

[21] **3,236,825**
[13] A1

[51] **Int.Cl. A61M 37/00 (2006.01) A61M 35/00 (2006.01)**

[25] EN

[54] **PREFILLED CUTANEOUS PATCH WITH LANDMARK**

[54] **PATCH CUTANE PREREMPLI POURVU D'UN POINT DE REPERE**

[72] LEWINSON, RYAN T., CA

[72] VALLERAND, ISABELLE A., CA

[72] HUGHES, JOHN-DOUGLAS MATTHEW, CA

[71] ALL SKIN INC, CA

[85] 2024-04-30

[86] 2022-11-01 (PCT/CA2022/051615)

[87] (WO2023/070231)

[30] US (63/274,176) 2021-11-01

[21] **3,236,827**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 31/436 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS OF HUMANIZED ANTI-CD40 ANTIBODIES**

[54] **COMPOSITIONS PHARMACEUTIQUES D'ANTICORPS ANTI-CD40 HUMANISES**

[72] KRANZ, JAMES, US

[71] KINIKSA PHARMACEUTICALS, GMBH, CH

[85] 2024-04-30

[86] 2022-11-01 (PCT/US2022/079072)

[87] (WO2023/081652)

[30] US (63/276,363) 2021-11-05

Demandes PCT entrant en phase nationale

[21] **3,236,828**
[13] A1

[51] **Int.Cl. A61K 31/4709 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **FARNESYL-TRANSFERASE INHIBITORS AND KRAS INHIBITORS FOR TREATING KRAS MUTANT CANCERS**

[54] **INHIBITEURS DE FARNESYL-TRANSFERASE ET INHIBITEURS DE KRAS POUR TRAITER DES CANCERS A MUTATIONS DE KRAS**

[72] TIMAR, JOZSEF, HU

[72] HEGED?S, BALAZS, HU

[72] BARANYI, MARCELL, HU

[72] MOLNAR, ESZTER, HU

[72] TOVARI, JOZSEF, HU

[72] RANDELOVIC, IVAN, RS

[72] PERCZEL, ANDRAS, XX

[72] KESER?, GYORGY, XX

[72] BUDAY, LASZLO, XX

[71] SEMMELWEIS EGYETEM, HU

[71] KINETO LAB KFT., HU

[71] EOTVOS LORAND TUDOMANYEGYETEM, HU

[71] TERMESZETTUDOMANYI KUTATOKOZPONT, HU

[85] 2024-04-30

[86] 2022-11-02 (PCT/HU2022/050077)

[87] (WO2023/079320)

[30] HU (P2100375) 2021-11-02

[21] **3,236,830**
[13] A1

[51] **Int.Cl. G16H 40/60 (2018.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01)**

[25] EN

[54] **METHODS, DEVICES, AND SYSTEMS FOR ADJUSTING LABORATORY HBA1C VALUES**

[54] **PROCEDES, DISPOSITIFS, ET SYSTEMES D'AJUSTEMENT DE VALEURS D'HBA1C VERIFIEES EN LABORATOIRE**

[72] DUNN, TIMOTHY C., US

[72] XU, YONGJIN, US

[71] ABBOTT DIABETES CARE INC., US

[85] 2024-04-30

[86] 2022-11-04 (PCT/US2022/049006)

[87] (WO2023/081391)

[30] US (63/276,266) 2021-11-05

[30] US (63/292,915) 2021-12-22

[30] US (63/326,231) 2022-03-31

[21] **3,236,831**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61K 45/06 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMPRISING SALMONELLA STRAIN AND IMMUNE CHECKPOINT INHIBITOR AS ACTIVE INGREDIENT FOR PREVENTION OR TREATMENT OF CANCER**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UNE SOUCHE DE SALMONELLE ET UN INHIBITEUR DE POINT DE CONTROLE IMMUNITAIRE EN TANT QUE PRINCIPES ACTIFS POUR LA PREVENTION OU LE TRAITEMENT DU CANCER**

[72] MIN, JUNG-JOON, KR

[72] HONG, YEONGJIN, KR

[72] YOU, SUNG-HWAN, KR

[72] HUY, NGUYEN DINH, KR

[71] CNCURE BIOTECH INC., KR

[85] 2024-04-30

[86] 2022-11-04 (PCT/KR2022/017209)

[87] (WO2023/080703)

[30] KR (10-2021-0151691) 2021-11-05

[21] **3,236,832**
[13] A1

[51] **Int.Cl. A47J 36/32 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR PRESENTING SAFETY-BASED TEMPERATURE STATUS NOTIFICATIONS FOR GRILLS**

[54] **PROCEDES ET APPAREIL DESTINES A PRESENTER DES NOTIFICATIONS D'ETAT DE TEMPERATURE REPOSANT SUR LA SECURITE POUR DES GRILLES**

[72] GLENNON, KEVIN JAMES, US

[72] MECKER, WILLIAM ALEXANDER, US

[71] WEBER-STEPHEN PRODUCTS LLC, US

[85] 2024-04-30

[86] 2022-10-28 (PCT/US2022/048209)

[87] (WO2023/101777)

[30] US (63/284,488) 2021-11-30

[30] US (17/973,255) 2022-10-25

[21] **3,236,833**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01)**

[25] EN

[54] **PRODUCTS AND METHODS FOR THE DIAGNOSIS AND TREATMENT OF HEPARIN-INDUCED THROMBOCYTOPENIA**

[54] **PRODUITS ET PROCEDES POUR LE DIAGNOSTIC ET LE TRAITEMENT DE LA THROMBOCYTOPENIE INDUITE PAR L'HEPARINE**

[72] NAZY, ISHAC, CA

[72] KELTON, JOHN, CA

[72] ARNOLD, DONALD, CA

[72] BISSOLA, ANNA-LISE, CA

[72] KRETZ, COLIN, CA

[71] MCMASTER UNIVERSITY, CA

[85] 2024-04-30

[86] 2022-11-03 (PCT/CA2022/051628)

[87] (WO2023/077230)

[30] US (63/275,098) 2021-11-03

[21] **3,236,834**
[13] A1

[51] **Int.Cl. A61M 5/178 (2006.01) A61M 5/32 (2006.01)**

[25] EN

[54] **INJECTABLE SUSTAINED RELEASE PHARMACEUTICAL COMPOSITION**

[54] **COMPOSITION PHARMACEUTIQUE INJECTABLE A LIBERATION PROLONGEE**

[72] WORLEY, MARK, US

[72] SANDERS, WILLIAM, US

[71] SPECGX LLC, US

[85] 2024-04-30

[86] 2022-11-22 (PCT/US2022/080349)

[87] (WO2023/092148)

[30] US (63/282,014) 2021-11-22

PCT Applications Entering the National Phase

[21] **3,236,836**
[13] A1

[51] **Int.Cl. C08F 290/06 (2006.01) C08F 8/14 (2006.01) C08G 63/12 (2006.01) C08G 63/183 (2006.01)**

[25] EN

[54] **(CO)POLYMER-ACRYLIC BLOCK COPOLYMERS AND COATING COMPOSITIONS CONTAINING THE SAME**

[54] **COPOLYMERES A BLOCS (CO) POLYMERES-ACRYLIQUE ET COMPOSITIONS DE REVETEMENT LES CONTENANT**

[72] KALEEM, KAREEM, US

[72] BAO, HANZHEN, US

[72] MOTALA, MICHAEL JONATHAN, US

[72] MOUSSA, YOUSSEF, US

[72] ZHANG, WENCHAO, US

[72] SENEKER, CARL, US

[71] PPG INDUSTRIES OHIO, INC., US

[85] 2024-04-30

[86] 2022-11-21 (PCT/US2022/080207)

[87] (WO2023/097177)

[30] US (63/282,767) 2021-11-24

[30] US (63/365,289) 2022-05-25

[21] **3,236,837**
[13] A1

[51] **Int.Cl. A61B 10/00 (2006.01) A61B 10/02 (2006.01) A61B 17/34 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **DEVICES AND SYSTEMS FOR REMOVING TISSUE ABOVE AND /OR DRAINING A SUBCUTANEOUS SKIN ABSCESS**

[54] **DISPOSITIFS ET SYSTEMES D'ELIMINATION DE TISSU AU-DESSUS ET/OU DE DRAINAGE D'UN ABCES DE LA PEAU SOUS-CUTANE**

[72] WHITE, MELANIE KATHRYN, AU

[72] HAYES, ALEX JOHN CULLEN, AU

[72] YEW, MING KHOON, AU

[72] MATTHEWS, GILES, AU

[72] WESTWOOD, MICHAEL, AU

[72] MILLS, LOUIS, AU

[71] INOVA MEDICAL PTY LTD, AU

[85] 2024-04-30

[86] 2022-11-04 (PCT/AU2022/051329)

[87] (WO2023/077200)

[30] AU (2021903549) 2021-11-05

[21] **3,236,838**
[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01)**

[25] EN

[54] **STABILIZED RNA AGENTS**

[54] **AGENTS D'ARN STABILISES**

[72] WOLFSON, ALEXEY, US

[72] ZATSEPIN, TIMOFEI, US

[71] A2TBIO LLC, US

[85] 2024-04-30

[86] 2022-11-01 (PCT/US2022/048509)

[87] (WO2023/076710)

[30] US (63/274,193) 2021-11-01

[21] **3,236,839**
[13] A1

[51] **Int.Cl. C07C 31/27 (2006.01) A61K 47/50 (2017.01) C07C 55/26 (2006.01) C07C 69/60 (2006.01) C07C 69/608 (2006.01) C07C 219/10 (2006.01) C07D 249/04 (2006.01)**

[25] EN

[54] **DEVELOPMENT OF A NEW FAMILY OF NANOCARRIERS DERIVED FROM NATURAL TETRAMERIC ACID LIPIDS**

[54] **DEVELOPPEMENT D'UNE NOUVELLE FAMILLE DE NANOVECTEURS DERIVES DE LIPIDES D'ACIDE TETRAMERE NATURELS**

[72] BENVEGNU, THIERRY, FR

[72] VIVES, THOMAS, FR

[72] HICGUET, MATTHIEU, FR

[72] SIMON, SEBASTIEN, NO

[72] SJOBLM, JOHAN, NO

[71] UNIVERSITE DE RENNES, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] ECOLE NATIONALE SUPERIEURE DE CHIMIE DE RENNES, FR

[71] INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE RENNES, FR

[71] NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO

[85] 2024-04-30

[86] 2022-11-10 (PCT/EP2022/081525)

[87] (WO2023/083983)

[30] EP (21306582.4) 2021-11-15

[21] **3,236,840**
[13] A1

[51] **Int.Cl. A47J 36/32 (2006.01) A47J 37/07 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR PRESENTING LOCATION-BASED FOOD MOVEMENT NOTIFICATIONS IN CONNECTION WITH COOK PROGRAMS OF GRILLS**

[54] **PROCEDES ET APPAREIL POUR PRESENTER DES NOTIFICATIONS DE DEPLACEMENT D'ALIMENT BASEES SUR L'EMPLACEMENT DANS LE CADRE DE PROGRAMMES DE CUISSON DE GRILS**

[72] GLENNON, KEVIN JAMES, US

[72] MECKER, WILLIAM ALEXANDER, US

[71] WEBER-STEPHEN PRODUCTS LLC, US

[85] 2024-04-30

[86] 2022-11-15 (PCT/US2022/049945)

[87] (WO2023/158466)

[30] US (63/310,511) 2022-02-15

[30] US (17/984,098) 2022-11-09

[21] **3,236,841**
[13] A1

[51] **Int.Cl. C03C 17/36 (2006.01)**

[25] FR

[54] **TRANSPARENT SUBSTRATE PROVIDED WITH A FUNCTIONAL STACK OF THIN LAYERS**

[54] **SUBSTRAT TRANSPARENT MUNI D'UN EMPILEMENT FONCTIONNEL DE COUCHES MINCES**

[72] GUIMARD, DENIS, FR

[72] DELBECQ, CECILE, FR

[72] LELARGE, ANNE, FR

[72] HIVET, ROMAIN, FR

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2024-04-30

[86] 2022-12-16 (PCT/EP2022/086262)

[87] (WO2023/117725)

[30] FR (FR2114274) 2021-12-22

Demandes PCT entrant en phase nationale

[21] **3,236,842**
[13] A1

[51] **Int.Cl. B32B 5/08 (2006.01) D04H 1/00 (2006.01) D04H 5/00 (2012.01)**

[25] EN

[54] **THERMOFORMABLE NONWOVEN COMPOSITE**

[54] **COMPOSITE NON TISSE THERMOFORMABLE**

[72] SHIBATA, KAZUAKI, US

[72] MAPES, MARK, US

[71] MILLIKEN & COMPANY, US

[85] 2024-04-30

[86] 2022-10-28 (PCT/US2022/048185)

[87] (WO2023/081064)

[30] US (63/274,740) 2021-11-02

[21] **3,236,843**
[13] A1

[51] **Int.Cl. A01N 25/00 (2006.01) A01N 25/02 (2006.01) A01N 43/90 (2006.01) A01N 45/00 (2006.01) A01P 21/00 (2006.01)**

[25] EN

[54] **SOLVENT COMPOSITIONS PROMOTING PLANT GROWTH**

[54] **COMPOSITIONS DE SOLVANT STIMULANT LA CROISSANCE DES PLANTES**

[72] SAWALL, DUSTYN, US

[72] WATRIN, CLIFF, US

[72] WHITE, CATHERINE E., US

[72] STARK, SHELBY, US

[72] JONES, MARCUS, US

[71] WINFIELD SOLUTIONS, LLC, US

[85] 2024-04-30

[86] 2022-11-04 (PCT/US2022/048951)

[87] (WO2023/081349)

[30] US (63/276,137) 2021-11-05

[21] **3,236,844**
[13] A1

[51] **Int.Cl. H04W 4/02 (2018.01) H04W 88/08 (2009.01)**

[25] EN

[54] **SYNCHRONIZATION NETWORK CONSTRUCTION METHOD, PRICE TAG SYSTEM, COMPUTER DEVICE, AND STORAGE MEDIUM**

[54] **PROCEDE DE CONSTRUCTION DE RESEAU DE SYNCHRONISATION, SYSTEME D'ETIQUETTES DE PRIX, DISPOSITIF INFORMATIQUE ET SUPPORT DE STOCKAGE**

[72] JI, YAPING, CN

[72] JIANG, QI, CN

[72] LIANG, MIN, CN

[71] HANSHOW TECHNOLOGY CO., LTD., CN

[85] 2024-04-30

[86] 2023-04-25 (PCT/CN2023/090494)

[87] (WO2023/207946)

[30] CN (202210436190.6) 2022-04-25

[21] **3,236,845**
[13] A1

[51] **Int.Cl. E21B 1/02 (2006.01) B25D 9/12 (2006.01) B25D 9/18 (2006.01) B25D 9/20 (2006.01) B25D 9/26 (2006.01)**

[25] EN

[54] **VALVE CYLINDER, IMPACT DEVICE AND METHOD**

[54] **CYLINDRE DE VANNE, DISPOSITIF D'IMPACT ET PROCEDE**

[72] POLONEN, JUHA, FI

[72] NIEMI, JARKKO, FI

[72] KELA, TIMO, FI

[71] SANDVIK MINING AND CONSTRUCTION OY, FI

[85] 2024-04-30

[86] 2022-12-02 (PCT/EP2022/084165)

[87] (WO2023/099716)

[30] EP (21212280.8) 2021-12-03

[21] **3,236,846**
[13] A1

[51] **Int.Cl. G01N 21/3504 (2014.01) G01M 3/16 (2006.01) G01M 3/20 (2006.01) G01M 3/22 (2006.01)**

[25] FR

[54] **SYSTEM AND METHOD FOR LOCATING THE SOURCE OF AN EMISSION OF GAS OR PARTICLES**

[54] **SYSTEME ET PROCEDE POUR LA LOCALISATION DE LA SOURCE D'UNE EMISSION DE GAZ OU DE PARTICULES**

[72] AGELAS, LEO, FR

[72] BEN GAID, MONGI, FR

[72] BERTHE, GUILLAUME, FR

[72] PAJON, JEAN-LOUIS, FR

[72] BENALI, ABDALLAH, FR

[71] IFP ENERGIES NOUVELLES, FR

[85] 2024-04-30

[86] 2022-11-24 (PCT/EP2022/083076)

[87] (WO2023/104528)

[30] FR (FR2113054) 2021-12-07

[21] **3,236,847**
[13] A1

[51] **Int.Cl. E04F 15/02 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **PANEL**

[54] **PANNEAU**

[72] DE RICK, JAN, BE

[72] ROLLIER, BRYAN, BE

[72] MEERSCHMAN, HANNES, BE

[71] UNILIN, BV, BE

[85] 2024-04-30

[86] 2022-12-09 (PCT/IB2022/061966)

[87] (WO2023/119043)

[30] BE (2021/6042) 2021-12-23

PCT Applications Entering the National Phase

[21] **3,236,848**
[13] A1

[51] **Int.Cl. C21D 8/02 (2006.01) C22C 33/04 (2006.01) C22C 38/18 (2006.01) C22C 38/40 (2006.01)**

[25] EN

[54] **HIGH-STRENGTH AND HIGH-HARDNESS REINFORCED WEAR-RESISTANT STEEL AND MANUFACTURING METHOD THEREFOR**

[54] **ACIER RENFORCE RESISTANT A L'USURE A HAUTE RESISTANCE ET HAUTE DURETE ET SON PROCEDE DE FABRICATION**

[72] LI, HONGBIN, CN
[72] DING, JIANHUA, CN
[72] LIU, ZICHENG, CN
[72] WU, KOUGEN, CN
[71] BAOSHAN IRON & STEEL CO., LTD., CN

[85] 2024-04-30
[86] 2022-11-02 (PCT/CN2022/129272)
[87] (WO2023/078299)
[30] CN (202111292512.6) 2021-11-03

[21] **3,236,849**
[13] A1

[51] **Int.Cl. H05B 47/21 (2020.01) H05B 45/18 (2020.01) H05B 45/58 (2020.01) H05B 47/23 (2020.01)**

[25] EN

[54] **AIRFIELD GROUND LIGHT WITH INTEGRATED LIGHT CONTROLLER THAT EMPLOYS POWERLINE COMMUNICATIONS AND SENSORS**

[54] **ECLAIRAGE AU SOL DE PISTE DE DECOLLAGE AVEC DISPOSITIF DE COMMANDE DE LUMIERE INTEGRE QUI UTILISE DES COMMUNICATIONS PAR LIGNE ELECTRIQUE ET DES CAPTEURS**

[72] DININNO, DARYL M., US
[72] MITCHELL, DOUGLAS A., US
[72] STACHOW, ROBERT PAUL, JR., US
[71] ADB SAFEGATE BV, BE

[85] 2024-04-30
[86] 2022-10-14 (PCT/US2022/046654)
[87] (WO2023/081002)
[30] US (63/275,235) 2021-11-03

[21] **3,236,850**
[13] A1

[51] **Int.Cl. H01M 4/1395 (2010.01) H01M 4/134 (2010.01) H01M 10/0525 (2010.01) H01M 10/0562 (2010.01) H01M 10/0565 (2010.01)**

[25] FR

[54] **PROCESS FOR PRODUCING AN ANODE FOR LITHIUM BATTERIES**

[54] **PROCEDE DE PRODUCTION D'UNE ANODE POUR BATTERIES AU LITHIUM**

[72] AMOUZEGAR, KAMYAB, CA
[72] LEBLANC, DOMINIC, CA
[72] PAOLELLA, ANDREA, CA
[72] GUERFI, ABDELBAST, CA
[72] KABOLI, SHIRIN, CA
[72] BOUCHARD, PATRICK, CA
[72] LAROUCHE, FRANCOIS, CA
[72] DELAPORTE, NICOLAS, CA
[71] HYDRO-QUEBEC, CA

[85] 2024-04-30
[86] 2023-01-10 (PCT/CA2023/050019)
[87] (WO2023/133627)
[30] US (63/299,247) 2022-01-13

[21] **3,236,851**
[13] A1

[51] **Int.Cl. A61K 51/10 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **MACROCYCLIC COMPOUNDS AND DIAGNOSTIC USES THEREOF**

[54] **COMPOSES MACROCYCLIQUES ET LEURS UTILISATIONS DIAGNOSTIQUES**

[72] GOLDBERG, SHALOM, US
[72] WILEY, KRISTEN, US
[72] SALTER, RHYS, US
[71] JANSSEN BIOTECH, INC., US

[85] 2024-04-30
[86] 2022-11-08 (PCT/IB2022/060755)
[87] (WO2023/084397)
[30] US (63/277,283) 2021-11-09

[21] **3,236,852**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01)**

[25] EN

[54] **BCMA MONOCLONAL ANTIBODY AND THE ANTIBODY-DRUG CONJUGATE**

[54] **ANTICORPS MONOCLONAL ANTI-BCMA ET CONJUGUE ANTICORPS-MEDICAMENT**

[72] ZHAO, ROBERT YONGXIN, US
[72] JIA, JUNXIANG, CN
[72] ZHENG, YUNXIA, CN
[72] YANG, QINGLIANG, CN
[72] HUANG, YUANYUAN, CN
[72] ZHANG, LINGLI, CN
[72] LI, WENJUN, CN
[72] GUO, HUIHUI, CN
[72] YE, HANGBO, CN
[72] YE, ZHICANG, CN
[72] ZHOU, YOU, CN
[72] WANG, JUAN, CN
[71] HANGZHOU DAC BIOTECH CO., LTD, CN

[85] 2024-04-30
[86] 2022-10-08 (PCT/CN2022/123901)
[87] (WO2023/078021)
[30] CN (PCT/CN2021/128453) 2021-11-03

[21] **3,236,853**
[13] A1

[51] **Int.Cl. C07D 417/04 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **PROTEIN TYROSINE PHOSPHATASE INHIBITORS AND METHODS OF USE THEREOF**

[54] **INHIBITEURS DE PROTEINE TYROSINE PHOSPHATASE ET LEURS PROCEDES D'UTILISATION**

[72] BOGDAN, ANDREW, US
[72] ECONOMOU, CHRISTOS, US
[72] FROST, JENNIFER M., US
[72] KYM, PHILIP R., US
[72] SCHOLZ, SPENCER O., US
[72] XIONG, ZHAOMING, US
[71] CALICO LIFE SCIENCES LLC, US
[71] ABBVIE INC., US

[85] 2024-04-30
[86] 2022-11-10 (PCT/US2022/049581)
[87] (WO2023/086495)
[30] US (63/278,336) 2021-11-11

Demandes PCT entrant en phase nationale

[21] **3,236,854**
[13] A1

[51] **Int.Cl. C07D 417/04 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **PROTEIN TYROSINE PHOSPHATASE INHIBITORS AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE PROTEINE TYROSINE PHOSPHATASE ET LEURS PROCEDES D'UTILISATION**
[72] BOGDAN, ANDREW, US
[72] FARNEY, ELLIOT P., US
[72] FROST, JENNIFER M., US
[72] KYM, PHILIP R., US
[72] XIONG, ZHAOMING, US
[72] BARTON, NAOMI ANNE, GB
[72] CARIOU-MUMFORD, CLAIRE ANNE MARIE, GB
[72] MCMAHON, CHRISTOPHER PATRICK, GB
[72] NANO, GIUSEPPE, GB
[71] CALICO LIFE SCIENCES LLC, US
[71] ABBVIE INC., US
[85] 2024-04-30
[86] 2022-11-10 (PCT/US2022/049584)
[87] (WO2023/086498)
[30] US (63/278,339) 2021-11-11

[21] **3,236,855**
[13] A1

[51] **Int.Cl. H10N 30/30 (2023.01) G01L 1/06 (2006.01) G01L 1/22 (2006.01) H10N 30/85 (2023.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DUAL-FUNCTION FOAM PRESSURE SENSORS**
[54] **SYSTEMES ET PROCEDES POUR CAPTEURS DE PRESSION DE MOUSSE A DOUBLE FONCTION**
[72] MERRELL, AARON JAKE, US
[72] CHRISTENSEN, TREVOR EMIL, US
[72] SUNDET, JAKE DUANE, US
[72] JENSEN, IAN MATTHEW, US
[72] TREE, MAXWELL, US
[71] NANO COMPOSITE PRODUCTS, US
[85] 2024-04-30
[86] 2022-11-01 (PCT/US2022/079086)
[87] (WO2023/077168)
[30] US (63/263,369) 2021-11-01

[21] **3,236,856**
[13] A1

[51] **Int.Cl. C07H 21/04 (2006.01) C07H 19/06 (2006.01) C07H 19/10 (2006.01) C07H 19/14 (2006.01) C07H 19/16 (2006.01) C07H 19/20 (2006.01) C07H 21/02 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR SYNTHESIS**
[54] **DISPOSITIFS ET METHODES DE SYNTHESE**
[72] LACKEY, JEREMY, US
[72] DODD, DAVID, US
[72] PITSCH, STEFAN, US
[71] TWIST BIOSCIENCE CORPORATION, US
[85] 2024-04-30
[86] 2022-10-31 (PCT/US2022/048456)
[87] (WO2023/076687)
[30] US (63/274,397) 2021-11-01

[21] **3,236,857**
[13] A1

[51] **Int.Cl. H04W 52/02 (2009.01)**
[25] EN
[54] **METHOD FOR ADJUSTING FRAME-LISTENING CYCLE, SHELF LABEL SYSTEM, COMPUTER DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE DE REGLAGE DE PERIODE D'ECOUTE DE TRAME, SYSTEME D'ETIQUETTE DE PRIX, DISPOSITIF INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] LIANG, MIN, CN
[72] JI, YAPING, CN
[72] JIANG, QI, CN
[72] WANG, YUJING, CN
[72] HOU, SHIGUO, CN
[71] HANSHOW TECHNOLOGY CO., LTD., CN
[85] 2024-04-30
[86] 2023-04-27 (PCT/CN2023/091053)
[87] (WO2024/001485)
[30] CN (202210732978.1) 2022-06-27

[21] **3,236,858**
[13] A1

[51] **Int.Cl. B08B 9/08 (2006.01) B24B 27/033 (2006.01) B24B 31/00 (2006.01) B24B 31/14 (2006.01) B27C 7/00 (2006.01) B27H 5/08 (2006.01) B27M 3/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD OF TREATING THE INTERNAL SURFACES OF A TIMBER BARREL WITH AN ABRASIVE**
[54] **APPAREIL ET PROCEDE DE TRAITEMENT DES SURFACES INTERNES D'UN FUT EN BOIS AVEC UN ABRASIF**
[72] BLAKEMAN, JONATHAN LINDSAY, AU
[72] WALKER, KIMBERLEY JOHN BUIST, AU
[72] MCDONALD, RONALD JOHN, AU
[71] BARREL REJUVENATION SERVICES PTY LTD, AU
[85] 2024-04-30
[86] 2022-10-24 (PCT/AU2022/051273)
[87] (WO2023/077181)
[30] AU (2021903510) 2021-11-03

[21] **3,236,859**
[13] A1

[51] **Int.Cl. A61B 6/03 (2006.01) G01R 31/20 (2006.01) G01R 31/26 (2020.01) G01R 31/309 (2006.01) G01T 1/24 (2006.01) G01T 1/29 (2006.01)**
[25] EN
[54] **INTERPOSER FOR SEMICONDUCTOR-BASED SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY DETECTOR**
[54] **INTERPOSEUR POUR DETECTEUR DE TOMOGRAPHIE ASSISTEE PAR ORDINATEUR A EMISSION MONOPHOTONIQUE A BASE DE SEMI-CONDUCTEUR**
[72] SANPITAK, PATANIT, US
[72] RODRIGUES, MIESHER, US
[72] CARUBA, JAMES FRANK, US
[71] SIEMENS MEDICAL SOLUTIONS USA, INC., US
[85] 2024-04-30
[86] 2021-12-01 (PCT/US2021/072652)
[87] (WO2023/101702)

PCT Applications Entering the National Phase

<p style="text-align: center;">[21] 3,236,860 [13] A1</p> <p>[51] Int.Cl. A61M 25/09 (2006.01) A61M 25/00 (2006.01) A61M 25/04 (2006.01)</p> <p>[25] EN</p> <p>[54] SPIRAL ENDOVASCULAR GUIDE WIRE</p> <p>[54] FIL-GUIDE ENDOVASCULAIRE EN SPIRALE</p> <p>[72] VIDOVICH, MLADEN, US</p> <p>[71] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US</p> <p>[71] THE UNITED STATES AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US</p> <p>[85] 2024-04-30</p> <p>[86] 2022-11-01 (PCT/US2022/079044)</p> <p>[87] (WO2023/081640)</p> <p>[30] US (63/274,701) 2021-11-02</p>	<p style="text-align: center;">[21] 3,236,862 [13] A1</p> <p>[51] Int.Cl. C09D 11/52 (2014.01) C09D 11/02 (2014.01)</p> <p>[25] EN</p> <p>[54] CONDUCTIVE DISPERSIONS WITH ULTRATHIN GRAPHENE</p> <p>[54] DISPERSIONS CONDUCTRICES AVEC GRAPHENE ULTRAMINCE</p> <p>[72] EL-KADY, MAHER F., US</p> <p>[72] PRICE, SHANNON, US</p> <p>[72] TULSYAN, GAURAV, US</p> <p>[71] NANOTECH ENERGY, INC., US</p> <p>[85] 2024-04-30</p> <p>[86] 2022-11-03 (PCT/US2022/048788)</p> <p>[87] (WO2023/081265)</p> <p>[30] US (63/275,804) 2021-11-04</p>	<p style="text-align: center;">[21] 3,236,864 [13] A1</p> <p>[51] Int.Cl. C25B 1/01 (2021.01) C25B 9/19 (2021.01) C25B 9/23 (2021.01) C25B 1/02 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR CARBON DIOXIDE REACTOR CONTROL</p> <p>[54] SYSTEME ET PROCEDE DE COMMANDE DE REACTEUR A DIOXYDE DE CARBONE</p> <p>[72] FLANDERS, NICHOLAS H., US</p> <p>[72] KUHL, KENDRA P., US</p> <p>[72] HAINES, CARTER S., US</p> <p>[72] STEVIC, LUKA, US</p> <p>[72] DICOSOLA, GREGORY, US</p> <p>[71] TWELVE BENEFIT CORPORATION, US</p> <p>[85] 2024-05-01</p> <p>[86] 2022-11-04 (PCT/US2022/079335)</p> <p>[87] (WO2023/081846)</p> <p>[30] US (63/263,567) 2021-11-04</p>
<p style="text-align: center;">[21] 3,236,861 [13] A1</p> <p>[51] Int.Cl. A61K 31/04 (2006.01) A61K 31/7024 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01)</p> <p>[25] EN</p> <p>[54] PI3K-ALPHA INHIBITORS AND METHODS OF MAKING AND USING THE SAME</p> <p>[54] INHIBITEURS DE PI3K-ALPHA ET LEURS METHODES DE PREPARATION ET D'UTILISATION</p> <p>[72] LESCARBEAU, ANDRE, US</p> <p>[72] BOEZIO, ALESSANDRO, US</p> <p>[72] SINGH, SURENDRA P., US</p> <p>[72] CHE, QINGLIN, US</p> <p>[72] JIANG, SIYI, CN</p> <p>[72] HE, HONGYAN, CN</p> <p>[72] ZHOU, QIUXIANG, CN</p> <p>[72] ZHOU, JIAJIA, CN</p> <p>[72] LIN, YUAN, CN</p> <p>[72] GU, WEI, CN</p> <p>[72] LU, MIN, CN</p> <p>[72] ZHOU, YUNFEI, CN</p> <p>[72] GONG, XIJIAN, CN</p> <p>[72] CHEN, JIAHUI, CN</p> <p>[72] WANG, XIAOHONG, CN</p> <p>[72] YIN, CHANGBO, CN</p> <p>[71] RELAY THERAPEUTICS, INC., US</p> <p>[85] 2024-04-30</p> <p>[86] 2022-11-03 (PCT/US2022/079221)</p> <p>[87] (WO2023/081757)</p> <p>[30] CN (PCT/CN2021/128533) 2021-11-03</p> <p>[30] US (63/263,474) 2021-11-03</p>	<p style="text-align: center;">[21] 3,236,863 [13] A1</p> <p>[51] Int.Cl. C08K 5/1545 (2006.01) B33Y 70/00 (2020.01) C08K 5/053 (2006.01) C08L 67/04 (2006.01)</p> <p>[25] EN</p> <p>[54] BIODEGRADABLE POLYMER COMPOSITIONS</p> <p>[54] COMPOSITIONS POLYMERES BIODEGRADABLES</p> <p>[72] CERNOHOUS, JEFFREY J., US</p> <p>[72] OCKWIG, NATHAN, US</p> <p>[71] INTERFACIAL CONSULTANTS LLC, US</p> <p>[85] 2024-04-25</p> <p>[86] 2022-11-01 (PCT/US2022/048563)</p> <p>[87] (WO2023/076723)</p> <p>[30] US (63/274,067) 2021-11-01</p>	<p style="text-align: center;">[21] 3,236,865 [13] A1</p> <p>[51] Int.Cl. C01B 17/04 (2006.01) B01D 53/86 (2006.01)</p> <p>[25] EN</p> <p>[54] SULFUR RECOVERY BY SOLIDIFYING SULFUR ON REACTOR CATALYST</p> <p>[54] RECUPERATION DE SOUFRE PAR SOLIDIFICATION DE SOUFRE SUR UN CATALYSEUR DE REACTEUR</p> <p>[72] O'CONNELL, JOHN, SA</p> <p>[71] SAUDI ARABIAN OIL COMPANY, SA</p> <p>[85] 2024-04-25</p> <p>[86] 2022-11-02 (PCT/US2022/048658)</p> <p>[87] (WO2023/081181)</p> <p>[30] US (17/517,280) 2021-11-02</p>

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[21] **3,236,866**
[13] A1

[51] **Int.Cl. C01B 3/40 (2006.01) C07C 1/12 (2006.01) G05B 13/02 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CONTROLLING A POWER-TO-X PROCESS TO REDUCE FEEDSTOCK COSTS**

[54] **SYSTEMES ET PROCEDES DE GESTION D'UN PROCESSUS PUISSANCE A X POUR REDUIRE LES COUTS DE CHARGE D'ALIMENTATION**

[72] SCHUETZLE, DENNIS, US

[72] SCHUETZLE, ROBERT, US

[72] GALLOWAY, ANJA RUMPLECKER, US

[72] MCGINNIS, GLENN, US

[72] MATTANA, ALEX, US

[71] INFINIUM TECHNOLOGY, LLC, US

[85] 2024-04-26

[86] 2022-11-04 (PCT/US2022/000025)

[87] (WO2023/091165)

[30] US (17/300,821) 2021-11-16

[21] **3,236,867**
[13] A1

[51] **Int.Cl. C12N 5/079 (2010.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR GENERATING HUMAN FOREBRAIN NEURAL PROGENITOR CELLS AND FOR MATURATION THEREOF TO PARVALBUMIN+ INTERNEURONS**

[54] **PROCEDES ET COMPOSITIONS POUR LA GENERATION DE CELLULES PROGENITRICES NEURALES DU CERVEAU ANTERIEUR HUMAIN ET POUR LEUR MATURATION EN INTERNEURONES PARVALBUMIN+.**

[72] AMINI, NOOSHIN, US

[72] FANG, XIAO GUANG, US

[71] TRAILHEAD BIOSYSTEMS INC., US

[85] 2024-04-26

[86] 2022-08-26 (PCT/US2022/041663)

[87] (WO2023/075913)

[30] US (63/273,742) 2021-10-29

[30] US (63/391,206) 2022-07-21

[21] **3,236,868**
[13] A1

[51] **Int.Cl. C40B 40/10 (2006.01) G16B 35/10 (2019.01) G16B 35/20 (2019.01) G16B 40/20 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR INTELLIGENT CONSTRUCTION OF ANTIBODY LIBRARIES**

[54] **SYSTEMES ET PROCEDES DE CONSTRUCTION INTELLIGENTE DE BIBLIOTHEQUES D'ANTICORPS**

[72] JAIN, TUSHAR, US

[72] VASQUEZ, MAXIMILIANO, US

[72] BARLOW, KYLE ANDREW, US

[71] ADIMAB, LLC, US

[85] 2024-04-26

[86] 2022-10-26 (PCT/US2022/047888)

[87] (WO2023/076390)

[30] US (63/274,394) 2021-11-01

[21] **3,236,869**
[13] A1

[51] **Int.Cl. E21B 47/008 (2012.01) G06N 20/00 (2019.01) E21B 43/12 (2006.01) F04D 13/10 (2006.01) F04D 15/00 (2006.01)**

[25] EN

[54] **ARTIFICIAL INTELLIGENCE-DRIVEN CLASSIFICATION WORKFLOW FOR DIAGNOSIS OF SUCKER ROD PUMP OPERATING CONDITIONS**

[54] **FLUX DE TRAVAIL DE CLASSIFICATION COMMANDE PAR INTELLIGENCE ARTIFICIELLE POUR LE DIAGNOSTIC DES CONDITIONS DE FONCTIONNEMENT D'UNE POMPE A TIGE DE POMPAGE**

[72] AMBADE, AMEY, US

[72] UMATE, PIYUSH, US

[72] GUPTA, SUPRIYA, US

[72] SHARMA, ABHISHEK, US

[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2024-04-26

[86] 2022-10-26 (PCT/US2022/047893)

[87] (WO2023/076395)

[30] US (63/272,999) 2021-10-28

[21] **3,236,870**
[13] A1

[51] **Int.Cl. A61G 1/00 (2006.01) A61G 1/04 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR THE REDUCTION OF HEMORRHAGE**

[54] **PROCEDE ET DISPOSITIF DE REDUCTION D'HEMORRAGIE**

[72] PENNELLS, SIMON ERIC, US

[72] SMART, COLIN JOHN, US

[71] KINGFISHER MEDICAL INC., US

[85] 2024-04-26

[86] 2022-10-26 (PCT/US2022/047937)

[87] (WO2023/076428)

[30] US (63/273,509) 2021-10-29

[21] **3,236,871**
[13] A1

[51] **Int.Cl. F16H 7/08 (2006.01)**

[25] EN

[54] **BEARING PIVOT TENSIONER ASSEMBLY**

[54] **ENSEMBLE TENDEUR DE PIVOT DE PALIER**

[72] KOPPESE, MICHAEL, CA

[72] WILLE, ROLAND, CA

[72] HOOPER, BRANDON, CA

[71] GATES CORPORATION, US

[85] 2024-04-26

[86] 2022-10-27 (PCT/US2022/048094)

[87] (WO2023/076520)

[30] US (63/273,347) 2021-10-29

[21] **3,236,872**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**

[25] EN

[54] **TUMOR MICROENVIRONMENT TYPES IN BREAST CANCER**

[54] **TYPES DE MICROENVIRONNEMENT TUMORAL DANS LE CANCER DU SEIN**

[72] GURYLEVA, MARIIA, RU

[72] KHORKOVA, SVETLANA, RU

[72] KOTLOV, NIKITA, CY

[72] ZOTOVA, ANASTASIA, RU

[72] VALIEV, IVAN, RU

[72] BAGAEV, ALEXANDER, US

[72] SHAMSUTDINOVA, DIANA, RU

[72] ELIAS-NOMIE, KRYSTLE, US

[72] BUTUSOVA, ANNA, RU

[72] ANTYSHEVA, ZOIA, RU

[71] BOSTONGENE CORPORATION, US

[85] 2024-04-26

[86] 2022-10-28 (PCT/US2022/048191)

[87] (WO2023/076574)

[30] US (63/273,171) 2021-10-29

PCT Applications Entering the National Phase

[21] **3,236,873**
[13] A1

[51] **Int.Cl. A61K 9/48 (2006.01) A61K 9/50 (2006.01) A61K 35/12 (2015.01) A61K 45/06 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR CELL-BASED THERAPIES AND RELATED METHODS**

[54] **COMPOSITIONS POUR THERAPIES CELLULAIRES ET METHODES ASSOCIEES**

[72] BARNEY, LAUREN EMILY, US
[72] BANDUKWALA, HOZEFA, US
[72] DRAPEAU, SUSAN J., US
[72] JANSSEN, LAUREN E., US
[71] SIGILON THERAPEUTICS, INC., US
[85] 2024-04-26
[86] 2022-10-28 (PCT/US2022/048256)
[87] (WO2023/076620)
[30] US (63/273,638) 2021-10-29

[21] **3,236,874**
[13] A1

[51] **Int.Cl. A61K 39/108 (2006.01) A61P 31/04 (2006.01) C07K 14/245 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PREVENTING INFECTION**

[54] **METHODES ET COMPOSITIONS POUR PREVENIR UNE INFECTION**

[72] COX, GRAHAM J.M., US
[72] EMERY, DARYLL, US
[72] STRAUB, DARREN E., US
[72] HERRON-OLSON, LISA, US
[72] TAM, PATRICIA, US
[72] CATRON, DREW M., US
[71] VAXXINOVA US, INC., US
[85] 2024-04-26
[86] 2022-10-28 (PCT/US2022/048262)
[87] (WO2023/076623)
[30] US (63/273,330) 2021-10-29

[21] **3,236,875**
[13] A1

[51] **Int.Cl. B64C 39/02 (2023.01) B64D 45/00 (2006.01) G01C 5/00 (2006.01)**

[25] EN

[54] **PRECISION HEIGHT ESTIMATION USING SENSOR FUSION**

[54] **ESTIMATION DE HAUTEUR DE PRECISION AU MOYEN D'UNE FUSION DES DONNEES DE CAPTEURS**

[72] KIM, YOUNG JOON, US
[72] LEE, KYUMAN, US
[71] BROOKHURST GARAGE, INC., US
[85] 2024-04-26
[86] 2022-11-01 (PCT/US2022/048499)
[87] (WO2023/076708)
[30] US (63/274,448) 2021-11-01

[21] **3,236,876**
[13] A1

[51] **Int.Cl. B64C 39/02 (2023.01) G06T 7/11 (2017.01) G06T 7/13 (2017.01) G06T 7/521 (2017.01) G06T 7/70 (2017.01) G06V 10/46 (2022.01) G06V 10/764 (2022.01) G06N 3/04 (2023.01)**

[25] EN

[54] **THIN OBJECT DETECTION AND AVOIDANCE IN AERIAL ROBOTS**

[54] **DETECTION ET EVITEMENT D'OBJETS MINCES DANS DES ROBOTS AERIENS**

[72] KIM, YOUNG JOON, US
[72] LEE, KYUMAN, US
[71] BROOKHURST GARAGE, INC., US
[85] 2024-04-26
[86] 2022-11-01 (PCT/US2022/048500)
[87] (WO2023/076709)
[30] US (63/274,450) 2021-11-01

[21] **3,236,877**
[13] A1

[51] **Int.Cl. C07D 417/12 (2006.01) A61K 31/433 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/454 (2006.01) A61K 31/4709 (2006.01) A61K 31/4745 (2006.01) A61K 31/497 (2006.01) A61K 31/4985 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61K 31/536 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01) A61P 17/00 (2006.01) A61P 25/00 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **HETEROCYCLIC COMPOUNDS AND USES THEREOF**

[54] **COMPOSES HETEROCYCLIQUES ET LEURS UTILISATIONS**

[72] BEVERIDGE, RAMSAY, CA
[72] BURCH, JASON, CA
[72] FADER, LEE, CA
[72] BOILY, MARC-OLIVIER, CA
[72] ST-ONGE, MIGUEL, CA
[72] DORICH, STEPHANE, CA
[72] CHAGNON, FELIX, CA
[72] DURET, GUILLAUME, CA
[71] VENTUS THERAPEUTICS U.S., INC., US
[85] 2024-04-26
[86] 2022-11-07 (PCT/US2022/049091)
[87] (WO2023/081441)
[30] US (63/276,927) 2021-11-08

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[21] **3,236,878**
[13] A1

[51] **Int.Cl. C09K 8/40 (2006.01) C09K 8/42 (2006.01) C09K 8/50 (2006.01) C09K 8/60 (2006.01)**

[25] EN

[54] **COMPOSITIONS OF APHRON SEALING LOST CIRCULATION SPACER**

[54] **COMPOSITIONS D'ESPACEUR DE CIRCULATION PERDUE D'ETANCHEITE APHRON**

[72] SCHULTZ, GARRETT, US

[72] CLARK, JORDAN, US

[71] SELECT CHEMISTRY, LLC, US

[85] 2024-04-26

[86] 2022-11-10 (PCT/US2022/049576)

[87] (WO2023/101801)

[30] US (63/284,868) 2021-12-01

[21] **3,236,879**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**

[25] EN

[54] **LEAFLET ASSEMBLIES AND METHODS FOR ATTACHING LEAFLETS TO A FRAME OF AN EXPANDABLE PROSTHETIC HEART VALVE**

[54] **ENSEMBLES DE LAMES ET PROCEDES DE FIXATION DE LAMES A UN CADRE D'UNE VALVULE CARDIAQUE PROTHETIQUE EXPANSIBLE**

[72] LEVI, TAMIR S., IL

[72] SHERMAN, ELENA, IL

[72] LAZOVSKI, SHIR, IL

[72] YOHANAN, ZIV, IL

[72] GUROVICH, NIKOLAI, IL

[72] PHAM, BICH HOANG, US

[71] EDWARDS LIFESCIENCES CORPORATION, US

[85] 2024-04-26

[86] 2022-11-11 (PCT/US2022/049666)

[87] (WO2023/086548)

[30] US (63/278,922) 2021-11-12

[30] US (63/300,302) 2022-01-18

[30] US (63/343,359) 2022-05-18

[21] **3,236,880**
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 31/5025 (2006.01) A61P 7/06 (2006.01)**

[25] EN

[54] **COMPOUNDS FOR TREATING MDS-ASSOCIATED ANEMIAS AND OTHER CONDITIONS**

[54] **COMPOSES POUR LE TRAITEMENT D'ANEMIES ASSOCIEES AU MDS ET D'AUTRES AFFECTIONS**

[72] BEYNON, VANESSA, US

[72] BHATIA, SUMAN JOY, US

[72] DANG, LENNY, US

[72] DIBACCO, MELISSA L., US

[72] IYER, VARSHA V., US

[72] KUNG, CHARLES, US

[72] LYNCH, MEGAN, US

[72] YIN, OPHELIA QIPING, US

[72] URBSTONAITIS, ROLANDAS, US

[72] XIAO, ZHEN, US

[71] AGIOS PHARMACEUTICALS, INC., US

[85] 2024-04-26

[86] 2022-11-15 (PCT/US2022/049969)

[87] (WO2023/091414)

[30] US (63/280,069) 2021-11-16

[30] US (63/357,240) 2022-06-30

[21] **3,236,883**
[13] A1

[51] **Int.Cl. H01Q 9/28 (2006.01) H01Q 17/00 (2006.01) H01P 5/10 (2006.01) H01Q 1/36 (2006.01)**

[25] EN

[54] **BEAM STEERING AND NULLING FOR A DIFFERENTIALLY SEGMENTED APERTURE ANTENNA**

[54] **ORIENTATION ET ANNULATION DE FAISCEAU POUR UNE ANTENNE A OUVERTURE SEGMENTEE DE MANIERE DIFFERENTIELLE**

[72] PERKINS, DANIEL A., US

[72] WELSH, RAPHAEL J., US

[71] BATTELLE MEMORIAL INSTITUTE, US

[85] 2024-04-26

[86] 2022-10-28 (PCT/US2022/078857)

[87] (WO2023/077055)

[30] US (63/273,346) 2021-10-29

[21] **3,236,885**
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) C12N 5/0775 (2010.01) A61N 7/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING DISEASES ASSOCIATED WITH CELLULAR-ENERGY DEFICIENCY OR MITOCHONDRIAL DYSFUNCTION BY LOCOREGIONAL DELIVERY OF EXTRACELLULAR VESICLES THAT HAVE A CARGO WITH AN ENHANCED BIOENERGETIC PROFILE**

[54] **METHODES DE TRAITEMENT DE MALADIES ASSOCIEES A UN DYSFONCTIONNEMENT MITOCHONDRIAL OU A UNE DEFICIENCE EN ENERGIE CELLULAIRE PAR ADMINISTRATION LOCOREGIONALE DE VESICULES EXTRACELLULAIRES PORTANT UNE CARGAISON PRESENTANT UN PROFIL BIOENERGETIQUE AMELIORE**

[72] THAKOR, AVNESH S., US

[72] CHETTY, SHASHANK, US

[72] REGMI, SHOBHA, US

[72] GANGULY, ABANTIKA, US

[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[85] 2024-04-26

[86] 2022-11-01 (PCT/US2022/079066)

[87] (WO2023/077160)

[30] US (63/274,234) 2021-11-01

PCT Applications Entering the National Phase

[21] **3,236,887**
[13] A1

[51] **Int.Cl. G06T 7/20 (2017.01) G06V 10/22 (2022.01) G06V 10/25 (2022.01) G06V 10/26 (2022.01) G06V 20/40 (2022.01) G06V 20/52 (2022.01) G06V 20/70 (2022.01)**

[25] EN

[54] **IDENTIFYING REGIONS OF INTEREST IN AN IMAGING FIELD OF VIEW**

[54] **IDENTIFICATION DE REGIONS D'INTERET DANS CHAMP DE VISION D'IMAGERIE**

[72] JACOB, JACQUILENE, US

[71] SIMPLISAFE, INC., US

[85] 2024-04-26

[86] 2022-11-16 (PCT/US2022/050037)

[87] (WO2023/091444)

[30] US (63/280,478) 2021-11-17

[30] US (17/831,608) 2022-06-03

[21] **3,236,888**
[13] A1

[51] **Int.Cl. C08F 230/02 (2006.01) C08F 220/56 (2006.01) C09K 8/035 (2006.01)**

[25] EN

[54] **POLYMERIZABLE PHOSPHONIC ACID (SALT) AND PREPARATION METHOD THEREFOR, COPOLYMER AND DRILLING FLUID**

[54] **ACIDE PHOSPHONIQUE POLYMERISABLE (SEL) ET PROCEDE DE PREPARATION S'Y RAPPORTANT, COPOLYMER ET FLUIDE DE FORAGE**

[72] SUN, ZHENFENG, CN

[72] ZHAO, KAIQIANG, CN

[72] YANG, CHAO, CN

[72] WANG, CHEN, CN

[72] LI, JIE, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN

[85] 2024-04-29

[86] 2022-10-27 (PCT/CN2022/127923)

[87] (WO2023/072189)

[30] CN (202111278542.1) 2021-10-30

[30] CN (202111278543.6) 2021-10-30

[30] CN (202111278544.0) 2021-10-30

[21] **3,236,890**
[13] A1

[51] **Int.Cl. A61K 31/4188 (2006.01) A61K 31/4709 (2006.01) A61K 31/7048 (2006.01) A61K 45/06 (2006.01) A61P 13/12 (2006.01)**

[25] EN

[54] **ALDOSTERONE SYNTHASE INHIBITORS FOR TREATING CHRONIC KIDNEY DISEASE**

[54] **INHIBITEURS DE L'ALDOSTERONE SYNTHASE POUR LE TRAITEMENT D'UNE NEPHROPATHIE CHRONIQUE**

[72] CRONIN, LISA V., US

[72] HAUSKE, SYBILLE JENNY, DE

[72] RUETTEN, HARTMUT, DE

[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE

[85] 2024-04-26

[86] 2022-12-13 (PCT/US2022/052631)

[87] (WO2023/114170)

[30] US (63/289,177) 2021-12-14

[21] **3,236,891**
[13] A1

[51] **Int.Cl. G01N 30/86 (2006.01) A61K 39/00 (2006.01) A61K 39/39 (2006.01) C07K 16/00 (2006.01) G01N 30/88 (2006.01)**

[25] EN

[54] **METHOD FOR DETERMINING THE DEGREE OF OXIDATIVE DEGRADATION OF POLYSORBATE 20 IN AQUEOUS FORMULATIONS**

[54] **METHODE DE DETERMINATION DU DEGRE DE DEGRADATION OXYDATIVE DE POLYSORBATE 20 DANS DES FORMULATIONS AQUEUSES**

[72] ZEUN, ALINE, DE

[72] HALBACH, FELIX, DE

[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE

[85] 2024-04-29

[86] 2022-12-19 (PCT/EP2022/086583)

[87] (WO2023/117858)

[30] EP (21215813.3) 2021-12-20

[21] **3,236,892**
[13] A1

[51] **Int.Cl. H01M 4/92 (2006.01)**

[25] EN

[54] **PLATINUM-CARBON CATALYST AND PREPARATION PROCESS AND USE THEREOF AND HYDROGEN FUEL CELL**

[54] **CATALYSEUR A BASE DE PLATINE-CARBONE, SON PROCEDE DE PREPARATION ET SON APPLICATION, ET PILE A COMBUSTIBLE A BASE D'HYDROGENE**

[72] GU, XIANRUI, CN

[72] WANG, HOUPENG, CN

[72] ZHANG, JIAKANG, CN

[72] PENG, QIAN, CN

[72] XIE, NANHONG, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] SINOPEC RESEARCH INSTITUTE OF PETROLEUM PROCESSING CO., LTD., CN

[85] 2024-04-29

[86] 2022-10-31 (PCT/CN2022/128609)

[87] (WO2023/072286)

[30] CN (202111272257.9) 2021-10-29

[21] **3,236,893**
[13] A1

[51] **Int.Cl. A23B 4/033 (2006.01) A23L 13/60 (2016.01) A23B 4/14 (2006.01)**

[25] EN

[54] **A TWICE-SHREDDED CRUNCHY MEAT JERKY**

[54] **CHARQUE DE VIANDE CROQUANT DECHIQUETE DEUX FOIS**

[72] PRADO, LUCAS ALFREDO, US

[71] PRADO, LUCAS ALFREDO, US

[85] 2024-04-29

[86] 2022-10-20 (PCT/IB2022/060110)

[87] (WO2023/073518)

[30] US (63/272,350) 2021-10-27

Demandes PCT entrant en phase nationale

[21] **3,236,894**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 33/10 (2006.01) C07D 519/00 (2006.01)**

[25] EN
[54] **ANTHELMINTIC PYRROLOPYRIDAZINE COMPOUNDS**
[54] **COMPOSES DE PYRROLOPYRIDAZINE ANTHELMINTHIQUES**

[72] KOOLMAN, HANNES, FIEPKO, DE
[72] HERLE, BART, DE
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[85] 2024-04-29
[86] 2022-10-28 (PCT/IB2022/060405)
[87] (WO2023/073641)

[21] **3,236,895**
[13] A1

[51] **Int.Cl. B05D 3/02 (2006.01) B05D 3/06 (2006.01) B05D 5/02 (2006.01) B05D 7/00 (2006.01) B44C 3/02 (2006.01) B44F 1/02 (2006.01)**

[25] EN
[54] **A METHOD FOR THE PRODUCTION OF A MATTE MULTILAYER SURFACE WITH AN INCREASED HAPTIC EFFECT AND A MULTILAYER SURFACE**
[54] **PROCEDE DE FABRICATION D'UNE SURFACE MULTICOUCHE MATE A EFFET HAPTIQUE ACCRU ET SURFACE MULTICOUCHE**

[72] SZEJWIAN, JERZY, PL
[72] SMUS, MICHAL, PL
[72] KONIECZNY, KRZYSZTOF, PL
[72] NOWAK, MATEUSZ, PL
[71] SCHATTEDECOR SP. Z O.O., PL
[85] 2024-05-01
[86] 2022-11-13 (PCT/PL2022/050078)
[87] (WO2023/085958)
[30] PL (P.439497) 2021-11-15

[21] **3,236,896**
[13] A1

[51] **Int.Cl. F28D 7/16 (2006.01) F25B 1/00 (2006.01) F25B 3/00 (2006.01) F28D 11/04 (2006.01) F28F 9/02 (2006.01) F28F 13/12 (2006.01)**

[25] EN
[54] **HEAT EXCHANGER, IN PARTICULAR SHELL-AND-TUBE HEAT EXCHANGER, FOR ARRANGEMENT IN A ROTOR HAVING AN AXIS OF ROTATION**
[54] **ECHANGEUR DE CHALEUR, EN PARTICULIER ECHANGEUR DE CHALEUR A CALANDRE, POUR AGENCEMENT DANS UN ROTOR A AXE DE ROTATION**

[72] ADLER, BERNHARD, AT
[72] LANGAUER, ANDREAS, AT
[72] RAKUSCH, CHRISTIAN, AT
[71] ECOP TECHNOLOGIES GMBH, AT
[85] 2024-04-29
[86] 2022-12-22 (PCT/EP2022/087405)
[87] (WO2023/118402)
[30] EP (21216865.2) 2021-12-22

[21] **3,236,897**
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) C12N 15/82 (2006.01)**

[25] EN
[54] **METHODS OF INCREASING ROOT ENDOSYMBIOSIS**
[54] **PROCEDES D'AUGMENTATION DE L'ENDOSYMBIOSE RACINAIRE**

[72] CHARPENTIER, MYRIAM, GB
[71] JOHN INNES CENTRE, GB
[85] 2024-04-29
[86] 2022-10-29 (PCT/EP2022/080314)
[87] (WO2023/073224)
[30] LU (LU500809) 2021-10-29
[30] GB (2210616.5) 2022-07-20

[21] **3,236,898**
[13] A1

[51] **Int.Cl. A42B 3/06 (2006.01)**

[25] EN
[54] **CONNECTOR AND APPARATUS**
[54] **CONNECTEUR ET APPAREIL**

[72] POMERING, AMY, SE
[71] MIPS AB, SE
[85] 2024-04-29
[86] 2022-10-28 (PCT/EP2022/080228)
[87] (WO2023/073185)
[30] GB (2115653.4) 2021-11-01
[30] GB (2115655.9) 2021-11-01

[21] **3,236,899**
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01) G16H 50/50 (2018.01)**

[25] EN
[54] **SYSTEM AND METHOD FOR INTRAOPERATIVE LIFETIME IMAGING**
[54] **SYSTEME ET PROCEDE D'IMAGERIE DE DUREE DE VIE PEROPERATOIRE**

[72] KUMAR, ANAND T.N., US
[72] PAL, RAHUL, US
[72] KRISHNAMOORTHY, MURALI, US
[71] THE GENERAL HOSPITAL CORPORATION, US
[85] 2024-04-26
[86] 2022-10-25 (PCT/US2022/078656)
[87] (WO2023/076899)
[30] US (63/272,847) 2021-10-28
[30] US (63/366,483) 2022-06-16

[21] **3,236,900**
[13] A1

[51] **Int.Cl. D21H 11/12 (2006.01) D21H 17/02 (2006.01) D21H 17/10 (2006.01) D21H 17/15 (2006.01) D21H 17/18 (2006.01) D21H 17/25 (2006.01) D21H 19/44 (2006.01) D21H 19/52 (2006.01) D21H 21/18 (2006.01) D21H 27/10 (2006.01)**

[25] EN
[54] **CITRIC ACID-CATALYSED CURRAN MODIFIED CARD BOARD MATERIALS**
[54] **MATERIAU DE CARTON MODIFIE PAR CURAN CATALYSE PAR ACIDE CITRIQUE**

[72] WHALE, ERIC ARRON, GB
[72] HEPWORTH, DAVID GWYDDON, GB
[72] KISBYE, KENNETH, DK
[72] BARDENSHTEIN, ALEXANDER, DK
[71] CELLUCOMP LIMITED, GB
[71] TEKNOLOGISK INSTITUT, DK
[85] 2024-04-29
[86] 2022-11-02 (PCT/EP2022/080516)
[87] (WO2023/078904)
[30] GB (2115744.1) 2021-11-02

PCT Applications Entering the National Phase

[21] **3,236,902**
[13] A1

[51] **Int.Cl. A01N 47/36 (2006.01) A01N 25/14 (2006.01) A01N 25/22 (2006.01) A01N 25/30 (2006.01) A01P 13/02 (2006.01)**

[25] EN

[54] **A STABLE HERBICIDAL COMPOSITION**

[54] **COMPOSITION HERBICIDE STABLE**

[72] MERTES, ADRIEN, BE

[72] PIROTTE, ALAN, BE

[71] UPL CORPORATION LIMITED, MU

[71] UPL EUROPE LTD, GB

[85] 2024-04-29

[86] 2022-11-02 (PCT/GB2022/052757)

[87] (WO2023/079271)

[30] IN (202121050620) 2021-11-03

[21] **3,236,903**
[13] A1

[51] **Int.Cl. A63G 31/00 (2006.01) A63G 31/16 (2006.01)**

[25] EN

[54] **CONVEYOR SYSTEMS WITH ANIMATED ELEMENTS**

[54] **SYSTEMES DE TRANSPORTEUR A ELEMENTS ANIMES**

[72] SHUM, CHRISTINA, US

[72] AMASON, HALEY JANE, US

[72] COLON, ELIZABETH TERESA, US

[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2024-05-01

[86] 2022-11-21 (PCT/US2022/050593)

[87] (WO2023/091757)

[30] US (63/282,022) 2021-11-22

[30] US (17/955,913) 2022-09-29

[21] **3,236,905**
[13] A1

[51] **Int.Cl. H01Q 1/36 (2006.01) H01Q 9/28 (2006.01) H01Q 21/06 (2006.01) H01Q 25/02 (2006.01)**

[25] EN

[54] **BEAM STEERING AND DIRECTION FINDING FOR A DIFFERENTIALLY SEGMENTED APERTURE ANTENNA**

[54] **ORIENTATION DE FAISCEAU ET RECHERCHE DE DIRECTION POUR UNE ANTENNE A OUVERTURE SEGMENTEE DE MANIERE DIFFERENTIELLE**

[72] PERKINS, DANIEL A., US

[72] WELSH, RAPHAEL J., US

[72] THORNTON, DOUGLAS A., US

[72] LAU, JEFFREY A., US

[72] LOESCH, DANIEL G., US

[72] FEDORYKA, DAMIAN B., US

[72] KANKE, ROGER, US

[72] PITTS, SHANNON, US

[71] BATTELLE MEMORIAL INSTITUTE, US

[85] 2024-04-26

[86] 2022-10-28 (PCT/US2022/078841)

[87] (WO2023/077045)

[30] US (63/273,344) 2021-10-29

[30] US (63/273,352) 2021-10-29

[30] US (63/273,434) 2021-10-29

[21] **3,236,906**
[13] A1

[51] **Int.Cl. C07D 497/12 (2006.01) A61P 25/14 (2006.01) A61P 35/02 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **AKT3 MODULATORS**

[54] **MODULATEURS D'AKT3**

[72] KHLEIF, SAMIR, US

[72] MKRTICHYAN, MIKAYEL, US

[72] MACCOSS, MALCOLM, US

[71] GEORGIAMUNE INC., US

[85] 2024-04-29

[86] 2022-11-04 (PCT/US2022/079290)

[87] (WO2023/081812)

[30] US (63/276,073) 2021-11-05

[21] **3,236,908**
[13] A1

[51] **Int.Cl. H01Q 21/06 (2006.01) H04B 1/40 (2015.01) H01Q 23/00 (2006.01) H04Q 1/44 (2006.01) H04Q 3/28 (2006.01)**

[25] EN

[54] **CIRCUIT ARCHITECTURES FOR A DIFFERENTIALLY SEGMENTED APERTURE ANTENNA**

[54] **ARCHITECTURES DE CIRCUIT POUR UNE ANTENNE A OUVERTURE SEGMENTEE DE MANIERE DIFFERENTIELLE**

[72] WELSH, RAPHAEL J., US

[72] PERKINS, DANIEL A., US

[72] LOESCH, DANIEL G., US

[72] THORNTON, DOUGLAS A., US

[71] BATTELLE MEMORIAL INSTITUTE, US

[85] 2024-04-26

[86] 2022-10-28 (PCT/US2022/078843)

[87] (WO2023/077047)

[30] US (63/273,349) 2021-10-29

[21] **3,236,909**
[13] A1

[51] **Int.Cl. A45D 34/04 (2006.01) A45D 40/28 (2006.01)**

[25] EN

[54] **SKIN LOTION DISPENSER**

[54] **DISTRIBUTEUR DE LOTION POUR LA PEAU**

[72] ASPLAND, KELLI JAYNE, GB

[72] WATERS, LAURA JAYNE, GB

[71] ASPLAND, KELLI JAYNE, GB

[71] WATERS, LAURA JAYNE, GB

[85] 2024-05-01

[86] 2022-05-03 (PCT/GB2022/051116)

[87] (WO2023/007111)

[30] US (17/384,927) 2021-07-26

Demandes PCT entrant en phase nationale

[21] **3,236,910**
[13] A1

[51] **Int.Cl. F01K 27/00 (2006.01) F01K 27/02 (2006.01) F25D 31/00 (2006.01) H02K 7/18 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONVERTING WASTE HEAT INTO ELECTRICITY**

[54] **SYSTEME ET PROCEDE DE CONVERSION DE CHALEUR PERDUE D'ASSEMBLAGES D'EQUIPEMENT INFORMATIQUE EN ELECTRICITE**

[72] RAPHALS, PHILIP, CA

[72] BERTENYI, TAMAS, CA

[72] NAUDIN, JORIS, CA

[71] NOVOPOWER INTERNATIONAL INC., CA

[85] 2024-04-29

[86] 2022-10-31 (PCT/IB2022/060466)

[87] (WO2023/073660)

[30] CA (3136893) 2021-10-29

[21] **3,236,912**
[13] A1

[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/435 (2006.01) A61K 31/4545 (2006.01) A61K 31/403 (2006.01)**

[25] EN

[54] **AKT3 MODULATORS**

[54] **MODULATEURS D'AKT3**

[72] KHLEIF, SAMIR, US

[72] MKRTICHYAN, MIKAYEL, US

[72] MACCOSS, MALCOLM, US

[71] GEORGIAMUNE INC., US

[85] 2024-04-29

[86] 2022-11-04 (PCT/US2022/079326)

[87] (WO2023/081841)

[30] US (63/276,115) 2021-11-05

[21] **3,236,913**
[13] A1

[51] **Int.Cl. A01B 59/00 (2006.01) A01B 59/04 (2006.01)**

[25] EN

[54] **MOUNTING DEVICE OF AGRICULTURAL WORK MACHINE**

[54] **DISPOSITIF DE MONTAGE DE MACHINE DE TRAVAIL AGRICOLE**

[72] YANG, DONG HO, KR

[72] PARK, JAE SEOP, KR

[72] NA, GUN YOUNG, KR

[72] KI, JUNG SIK, KR

[72] PARK, GI MYEONG, KR

[71] LS MTRON LTD., KR

[85] 2024-05-01

[86] 2022-11-02 (PCT/KR2022/016972)

[87] (WO2023/080612)

[30] KR (10-2021-0149510) 2021-11-03

[21] **3,236,914**
[13] A1

[51] **Int.Cl. B01J 21/04 (2006.01) B01J 23/16 (2006.01) C10K 3/02 (2006.01)**

[25] EN

[54] **IMPROVED CO₂ HYDROGENATION CATALYSTS FOR THE COMMERCIAL PRODUCTION OF SYNGAS**

[54] **CATALYSEURS D'HYDROGENATION CO₂ AMELIORES POUR LA PRODUCTION COMMERCIALE DE GAZ DE SYNTHESE**

[72] SCHUETZLE, DENNIS, US

[72] SCHUETZLE, ROBERT, US

[72] GALLOWAY, ANJA RUMPLECKER, US

[72] HANBURY, ORION, US

[71] INFINIUM TECHNOLOGY, LLC, US

[85] 2024-04-29

[86] 2022-11-04 (PCT/US2022/000027)

[87] (WO2023/091167)

[30] US (17/300,820) 2021-11-16

[21] **3,236,916**
[13] A1

[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/435 (2006.01) A61K 31/4545 (2006.01) A61K 31/403 (2006.01)**

[25] EN

[54] **AKT3 MODULATORS**

[54] **MODULATEURS D'AKT3**

[72] KHLEIF, SAMIR, US

[72] MKRTICHYAN, MIKAYEL, US

[72] MACCOSS, MALCOLM, US

[71] GEORGIAMUNE INC., US

[85] 2024-04-29

[86] 2022-11-04 (PCT/US2022/079334)

[87] (WO2023/081845)

[30] US (63/276,218) 2021-11-05

[21] **3,236,918**
[13] A1

[51] **Int.Cl. H04N 7/15 (2006.01) G16H 80/00 (2018.01) H04L 51/046 (2022.01)**

[25] EN

[54] **APPARATUSES AND METHODS FOR TELESUPERVISION OF SERVICE PROVIDERS OF COUNSELING OR MEDICAL SERVICES**

[54] **APPAREILS ET PROCEDES DE TELESURVEILLANCE DE FOURNISSEURS DE SERVICES DE CONSEIL OU DE SERVICES MEDICAUX**

[72] BANDEALY, AHAD KARAMALI, US

[72] CHAN, RUSSELL, CA

[71] GET A-HEAD INC., CA

[85] 2024-05-01

[86] 2022-11-03 (PCT/CA2022/051626)

[87] (WO2023/077228)

[30] US (63/263,598) 2021-11-05

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[21] **3,236,919**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) G01N 33/50 (2006.01) G01N 33/566 (2006.01) G01N 33/577 (2006.01)**

[25] EN

[54] **UNIVERSAL TIL CYTOTOXICITY ASSAY**

[54] **ESSAI DE CYTOTOXICITE IMPLIQUANT DES TIL UNIVERSELS**

[72] BEATTY, MATTHEW, US
[72] DAVILA, MARCO, US
[72] PILON-THOMAS, SHARI, US
[71] H. LEE MOFFITT CANCER CENTER AND RESEARCH INSTITUTE INC., US
[85] 2024-05-01
[86] 2022-11-03 (PCT/US2022/048809)
[87] (WO2023/081274)
[30] US (63/275,083) 2021-11-03

[21] **3,236,920**
[13] A1

[51] **Int.Cl. A61K 31/167 (2006.01) C07D 213/74 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **AKT3 MODULATORS**

[54] **MODULATEURS D'AKT3**

[72] KHLEIF, SAMIR, US
[72] MKRTICHYAN, MIKAYEL, US
[72] MACCOSS, MALCOLM, US
[71] GEORGIAMUNE INC., US
[85] 2024-04-29
[86] 2022-11-04 (PCT/US2022/079344)
[87] (WO2023/081854)
[30] US (63/276,338) 2021-11-05

[21] **3,236,923**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01)**

[25] EN

[54] **METHOD OF PRODUCING AN ANTIBODY PEPTIDE CONJUGATE**

[54] **PROCEDE DE FABRICATION D'UN CONJUGUE ANTICORPS-PEPTIDES**

[72] DIEP, JONATHAN, US
[71] AMGEN INC., US
[85] 2024-04-29
[86] 2022-11-08 (PCT/US2022/079479)
[87] (WO2023/086790)
[30] US (63/227,597) 2021-11-09

[21] **3,236,924**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **RESPIRATORY SYNCYTIAL VIRUS RNA VACCINE**

[54] **VACCIN A ARN CONTRE LE VIRUS RESPIRATOIRE SYNCYTIAL**

[72] CASIMIRO, DANILO, US
[72] GOPANI, HARDIP RAJESHBHAI, FR
[72] DINAPOLI, JOSHUA, US
[72] ZHANG, LINONG, US
[72] GOLDMAN, REBECCA L., FR
[72] CHIVUKULA, SUDHA, US
[72] GALLICHAN, WILLIAM SCOTT, CA
[72] PARRINGTON, MARK, US
[71] SANOFI, FR
[85] 2024-05-01
[86] 2022-11-04 (PCT/IB2022/060639)
[87] (WO2023/079507)
[30] US (63/276,233) 2021-11-05
[30] EP (22315065.7) 2022-03-16

[21] **3,236,925**
[13] A1

[51] **Int.Cl. C12N 1/14 (2006.01) C12N 9/10 (2006.01) C12N 9/12 (2006.01) C12N 9/88 (2006.01) C12N 15/52 (2006.01) C12N 15/63 (2006.01) C12N 15/70 (2006.01) C12P 17/10 (2006.01)**

[25] EN

[54] **METHODS FOR THE IMPROVED PRODUCTION OF PSILOCYBIN AND INTERMEDIATES OR SIDE PRODUCTS THROUGH ENZYME OPTIMIZATION**

[54] **PROCEDES POUR LA PRODUCTION AMELIOREE DE PSILOCYBINE ET D'INTERMEDIAIRES OU DE PRODUITS SECONDAIRES PAR OPTIMISATION ENZYMATIQUE**

[72] JONES, JOHN ANDREW, US
[72] MCKINNEY, MADELINE, US
[71] MIAMI UNIVERSITY, US
[85] 2024-05-01
[86] 2022-11-04 (PCT/US2022/079308)
[87] (WO2023/081829)
[30] US (63/263,607) 2021-11-05

[21] **3,236,926**
[13] A1

[51] **Int.Cl. A63B 21/008 (2006.01) A63B 21/08 (2006.01) A63B 23/12 (2006.01) A63B 24/00 (2006.01) A63B 23/035 (2006.01)**

[25] EN

[54] **SHOULDER STRENGTHENING SYSTEMS**

[54] **SYSTEMES DE RENFORCEMENT DES EPAULES**

[72] MICKOLIO, KOLE, US
[72] MICKOLIO, KAMERON, US
[72] MAUGHAN, RORY, US
[72] MEYER, SETH, US
[71] TITIN KM BIOMEDICAL CORP., US
[85] 2024-04-29
[86] 2022-10-05 (PCT/US2022/045755)
[87] (WO2023/080978)
[30] US (63/277,071) 2021-11-08
[30] US (PCT/US2022/023150) 2022-04-01

[21] **3,236,927**
[13] A1

[51] **Int.Cl. G01N 5/04 (2006.01) G01N 33/24 (2006.01)**

[25] EN

[54] **METHOD OF SAMPLING AND ANALYZING PROPERTIES OF DISCHARGED FILTER CAKE AND APPARATUS THEREOF**

[54] **PROCEDE D'ECHANTILLONNAGE ET D'ANALYSE DE PROPRIETES D'UN GATEAU DE FILTRATION EVACUE, ET APPAREIL ASSOCIE**

[72] SOK, THIEN, US
[72] HIDDING, MICHAEL, AU
[72] BRUCE, TREVOR, ZA
[72] CHAPONNEL, JAMES, US
[71] FLSMIDTH A/S, DK
[85] 2024-04-29
[86] 2022-11-01 (PCT/IB2022/060514)
[87] (WO2023/079437)
[30] US (63/274,584) 2021-11-02

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[21] **3,236,929**
[13] A1

[51] **Int.Cl. H01M 4/36 (2006.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01) H01M 4/02 (2006.01) H01M 4/62 (2006.01)**

[25] EN

[54] **POSITIVE ELECTRODE MATERIAL, POSITIVE ELECTRODE INCLUDING THE SAME, AND LITHIUM SECONDARY BATTERY**

[54] **MATERIAU DE CATHODE, ET BATTERIE SECONDAIRE AU LITHIUM ET CATHODE LE COMPRENANT**

[72] HAN, GI BEOM, KR
[72] KIM, JONG WOO, KR
[72] LEE, SANG WOOK, KR
[72] KIM, HAK YOON, KR
[72] BAEK, SO RA, KR
[72] LHO, EUN SOL, KR
[72] HAN, JUNG MIN, KR
[72] JUNG, HAE JUNG, KR
[72] JUNG, WANG MO, KR
[72] LEE, YOUNG HWAN, KR
[72] CHUNG, DAE SIK, KR
[72] PARK, SU HAN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-29
[86] 2022-11-02 (PCT/KR2022/017061)
[87] (WO2023/080643)
[30] KR (10-2021-0150057) 2021-11-03

[21] **3,236,930**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **SPECIFIC CONJUGATION OF AN ANTIBODY**

[54] **CONJUGAISON SPECIFIQUE D'UN ANTICORPS**

[72] ZHAO, ROBERT, US
[72] YANG, QINGLIANG, CN
[72] LIU, XIAOLEI, CN
[72] ZHANG, LINGLI, CN
[72] HUANG, YUANYUAN, CN
[72] LI, WENJUN, CN
[72] YE, HANGBO, CN
[72] WANG, JUAN, CN
[72] GUO, HUIHUI, CN
[72] ZHOU, YOU, CN
[71] HANGZHOU DAC BIOTECH CO., LTD., CN
[85] 2024-05-01
[86] 2021-11-03 (PCT/CN2021/128453)
[87] (WO2022/078524)

[21] **3,236,931**
[13] A1

[51] **Int.Cl. C12M 1/34 (2006.01) C12Q 1/6886 (2018.01) C12Q 1/02 (2006.01) G06T 7/60 (2017.01)**

[25] EN

[54] **CELLULAR MEASUREMENT CALIBRATION AND CLASSIFICATION**

[54] **ETALONNAGE ET CLASSIFICATION DE MESURES CELLULAIRES**

[72] KIMMERLING, ROBERT, US
[72] OLCUM, SELIM, US
[72] STEVENS, MARK, US
[71] TRAVERA, INC., US
[85] 2024-04-29
[86] 2022-10-31 (PCT/US2022/048390)
[87] (WO2023/076661)
[30] US (63/274,255) 2021-11-01

[21] **3,236,932**
[13] A1

[51] **Int.Cl. G01S 13/74 (2006.01) G01S 19/10 (2010.01) G01S 19/11 (2010.01) G01S 19/45 (2010.01) G01S 3/02 (2006.01) G01S 5/02 (2010.01)**

[25] EN

[54] **NETWORK TRAFFIC LATENCY EQUALIZING**

[54] **EGALISATION DE LATENCE DE TRAFIC DE RESEAU**

[72] BROWN, JAMIE AARON, US
[72] MCWHIRTER, STEPHEN RUSSELL, US
[72] KAPELYAN, ELYA JOSEPH, US
[72] MOHAN, CRAIG JOHN, US
[72] MILAM, CHAD, US
[71] SK3W TECHNOLOGIES INC., US
[85] 2024-04-29
[86] 2022-10-31 (PCT/US2022/048496)
[87] (WO2023/076705)
[30] US (63/273,319) 2021-10-29

[21] **3,236,935**
[13] A1

[51] **Int.Cl. B01L 1/00 (2006.01) C12Q 1/6806 (2018.01) C12Q 1/6851 (2018.01) B01L 3/00 (2006.01) B01L 9/00 (2006.01) G01N 35/04 (2006.01)**

[25] EN

[54] **APPARATUS FOR CONTROLLING ASSAY PROCESSES IN A SAMPLE-TO-ANSWER DEVICE AND METHOD OF USE THEREOF**

[54] **APPAREIL POUR COMMANDER DES PROCESSUS DE DOSAGE DANS UN DISPOSITIF ECHANTILLON A REPONSE ET SON PROCEDE D'UTILISATION**

[72] PAIS, ROHAN, US
[72] PAIS, ANDREA, US
[72] CAMPBELL, DAVID, US
[72] GRZANKA, ANDREW, US
[72] ZAKIELARZ, SEAN, US
[72] NISBETT, TREVORNE, US
[72] JODA, HAMDI, US
[71] NOVEL MICRODEVICES, INC., US
[85] 2024-04-29
[86] 2022-11-01 (PCT/US2022/048636)
[87] (WO2023/076747)
[30] US (63/274,507) 2021-11-01
[30] US (63/274,510) 2021-11-01

[21] **3,236,937**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **IGA FC AND IGG FC TANDEM PROTEIN CONSTRUCTS**

[54] **CONSTRUCTIONS PROTEIQUES TANDEM FC D'IGA ET FC D'IGG**

[72] ANDERSEN, JAN TERJE, NO
[72] FOSS, STIAN, NO
[72] MESTER, SIMONE, NO
[71] OSLO UNIVERSITETSSYKEHUS HF, NO
[71] UNIVERSITETET I OSLO, NO
[85] 2024-05-01
[86] 2022-11-07 (PCT/EP2022/080998)
[87] (WO2023/079147)
[30] GB (2115957.9) 2021-11-05

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[21] **3,236,938**
[13] A1

[51] **Int.Cl. E06B 9/36 (2006.01)**
[25] EN
[54] **MOTORIZED VERTICAL BLIND ASSEMBLY**
[54] **ENSEMBLE STORE VERTICAL MOTORISE**
[72] BOHLEN, JORG, NL
[72] LILIENTHAL, HEIKO, NL
[72] FAROKHYAR, KIYOU MARS, NL
[71] HUNTER DOUGLAS INDUSTRIES B.V., NL
[85] 2024-05-01
[86] 2022-10-28 (PCT/EP2022/080210)
[87] (WO2023/078796)
[30] GB (2115848.0) 2021-11-04

[21] **3,236,940**
[13] A1

[51] **Int.Cl. C06B 33/02 (2006.01) C09K 8/52 (2006.01) C09K 8/592 (2006.01) E21B 29/02 (2006.01)**
[25] EN
[54] **A CHEMICAL REACTION HEAT SOURCE COMPOSITION FOR USE IN DOWNHOLE OPERATIONS AND ASSOCIATED APPARATUS AND METHODS**
[54] **COMPOSITION DE SOURCE DE CHALEUR A REACTION CHIMIQUE A UTILISER DANS DES OPERATIONS DE FOND DE TROU ET APPAREIL ET PROCEDES ASSOCIES**
[72] LEVCHENKO, ANDRE, GB
[72] CLARK, BILLY, GB
[72] HUGHES, CLAY, GB
[72] TALAPATRA, DIDHITI, GB
[72] CARRAGHER, PAUL, GB
[71] BISN TEC LTD, GB
[85] 2024-05-01
[86] 2022-11-07 (PCT/GB2022/052813)
[87] (WO2023/079313)
[30] GB (2115949.6) 2021-11-05

[21] **3,236,941**
[13] A1

[51] **Int.Cl. A61J 1/06 (2006.01) A61J 1/20 (2006.01) B01L 3/00 (2006.01) B65B 29/10 (2006.01) B65B 47/04 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **APPARATUS FOR CONTAINING AND DISPENSING REAGENT INTO A MICROFLUIDIC CARTRIDGE FOR USE IN POINT-OF-CARE DEVICES**
[54] **APPAREIL POUR CONTENIR ET DISTRIBUER UN REACTIF DANS UNE CARTOUCHE MICROFLUIDIQUE DESTINEE A ETRE UTILISEE DANS DES DISPOSITIFS DE POINT DE SOINS**
[72] PAIS, ROHAN, US
[72] PAIS, ANDREA, US
[72] FITZELL, JOHN, US
[72] GRZANKA, ANDREW, US
[72] CAMPBELL, DAVID, US
[72] ZAKIELARZ, SEAN, US
[71] NOVEL MICRODEVICES, INC., US
[85] 2024-04-29
[86] 2022-11-01 (PCT/US2022/048637)
[87] (WO2023/076748)
[30] US (63/274,502) 2021-11-01

[21] **3,236,943**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/64 (2017.01) A61P 35/00 (2006.01) C07K 19/00 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **VACCINE AGAINST PANCREATIC CANCER, AND MEDICAL USE THEREOF**
[54] **VACCIN CONTRE LE CANCER DU PANCREAS ET SON UTILISATION MEDICALE**
[72] CAI, JIONG, CN
[71] YUANBEN (ZHUHAI HENGQIN) BIOTECHNOLOGY CO., LTD., CN
[85] 2024-05-01
[86] 2022-08-25 (PCT/CN2022/114956)
[87] (WO2023/077924)
[30] CN (202111301004.X) 2021-11-04

[21] **3,236,944**
[13] A1

[51] **Int.Cl. C07K 5/02 (2006.01) C07K 5/027 (2006.01) C07K 16/00 (2006.01) C07K 16/30 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **NOVEL AURISTATIN ANALOGS AND IMMUNOCONJUGATES THEREOF**
[54] **NOUVEAUX ANALOGUES D'AURISTATINE ET IMMUNOCONJUGUES DE CEUX-CI**
[72] LI, RICHARD HUI, US
[72] LEE, DONG JUN, US
[71] ADCENTRX THERAPEUTICS INC., US
[85] 2024-04-29
[86] 2022-11-02 (PCT/US2022/048735)
[87] (WO2023/081230)
[30] US (63/275,177) 2021-11-03
[30] US (63/295,476) 2021-12-30

[21] **3,236,947**
[13] A1

[51] **Int.Cl. G01N 33/542 (2006.01) G01N 33/573 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **FRET ENZYMATIC SUBSTRATE AND USES THEREOF IN LUNG CANCER**
[54] **SUBSTRAT ENZYMATIQUE FRET ET SES UTILISATIONS DANS LE CANCER DU POU MON**
[72] LESNER, ADAM, PL
[72] GRUBA, NATALIA, PL
[71] URTESTE S.A., PL
[85] 2024-05-01
[86] 2022-12-05 (PCT/PL2022/050088)
[87] (WO2023/106945)
[30] PL (P.439760) 2021-12-07

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[21] 3,236,948 [13] A1	[21] 3,236,950 [13] A1	[21] 3,236,952 [13] A1
[51] Int.Cl. B01D 21/26 (2006.01) B04C 3/06 (2006.01) B04C 9/00 (2006.01)	[51] Int.Cl. A61K 31/712 (2006.01) C12N 15/113 (2010.01) A61K 31/7125 (2006.01)	[51] Int.Cl. A61K 38/07 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C12N 15/10 (2006.01)
[25] EN	[25] EN	[25] EN
[54] AN APPARATUS FOR REMOVING PARTICULATE MATERIALS FROM A LIQUID STREAM	[54] COMPOUNDS AND METHODS FOR REDUCING PSD3 EXPRESSION	[54] ANTIBODY-DRUG CONJUGATES AGAINST THE RECEPTOR TYROSINE KINASE EPHA5
[54] APPAREIL POUR ELIMINER DES MATIERES PARTICULAIRES D'UN FLUX DE LIQUIDE	[54] COMPOSES ET METHODES POUR REDUIRE L'EXPRESSION DE PSD3	[54] CONJUGUES ANTICORPS-MEDICAMENT DIRIGES CONTRE LE RECEPTEUR TYROSINE KINASE EPHA5
[72] MELLING, GERARD, GB	[72] BUI, HUYNH-HOA, US	[72] PASQUALINI, RENATA, US
[71] GM INNOVATIONS LIMITED, GB	[72] FREIER, SUSAN M., US	[72] ARAP, WADIH, US
[85] 2024-05-01	[72] LEE, RICHARD, US	[72] STAQUICINI, FERNANDA I., US
[86] 2022-11-01 (PCT/EP2022/080459)	[71] IONIS PHARMACEUTICALS, INC., US	[71] RUTGERS, THE STATE UNIVERSITY, US
[87] (WO2023/078874)	[85] 2024-04-29	[71] MBRACE THERAPEUTICS, INC., US
[30] GB (2115737.5) 2021-11-02	[86] 2022-10-31 (PCT/IB2022/060478)	[85] 2024-05-01
[30] GB (2207689.7) 2022-05-25	[87] (WO2023/073661)	[86] 2022-11-03 (PCT/US2022/079232)
	[30] US (63/274,405) 2021-11-01	[87] (WO2023/081766)
[21] 3,236,949 [13] A1	[21] 3,236,951 [13] A1	[30] US (63/275,346) 2021-11-03
[51] Int.Cl. A61K 31/44 (2006.01) A61K 31/4427 (2006.01) A61K 31/505 (2006.01) A61K 31/506 (2006.01) C07D 213/04 (2006.01) C07D 253/02 (2006.01) C07D 253/06 (2006.01)	[51] Int.Cl. A61K 31/045 (2006.01) A61K 31/05 (2006.01) A61K 31/33 (2006.01) A61K 31/403 (2006.01)	
[25] EN	[25] EN	
[54] DRUG CONJUGATES AND METHODS OF PREPARING AND USING THE SAME	[54] SYNTHETIC CANNABINOID COMPOUNDS, PHARMACEUTICAL COMPOSITIONS, AND TREATMENT METHODS	
[54] CONJUGUES DE MEDICAMENT ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION	[54] COMPOSES CANNABINOIDES SYNTHETIQUES, COMPOSITIONS PHARMACEUTIQUES ET METHODES DE TRAITEMENT	
[72] LI, RICHARD HUI, US	[72] WILLIAMS, JONNIE R., US	
[72] LEE, DONG JUN, US	[71] MIRALOGX LLC, US	
[72] CHU-KUNG, ALEXANDER FANN-YAN, US	[85] 2024-05-01	
[72] NYE, ERIN MORGAN, US	[86] 2022-11-22 (PCT/US2022/050757)	
[72] MAHLOCH, ALEXIS BROOKE, US	[87] (WO2023/096918)	
[71] ADCENTRX THERAPEUTICS INC., US	[30] US (63/283,431) 2021-11-27	
[85] 2024-04-29	[30] US (63/403,544) 2022-09-02	
[86] 2022-11-02 (PCT/US2022/048739)		
[87] (WO2023/081232)		
[30] US (63/275,403) 2021-11-03		

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[21] 3,236,953 [13] A1	[21] 3,236,954 [13] A1	[21] 3,236,956 [13] A1
<p>[51] Int.Cl. C21D 1/673 (2006.01) B21D 22/02 (2006.01) B32B 15/01 (2006.01) C21D 1/02 (2006.01) C21D 6/00 (2006.01) C21D 8/00 (2006.01) C21D 8/02 (2006.01) C21D 9/00 (2006.01) C21D 9/46 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/22 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01) C22C 38/32 (2006.01) C22C 38/38 (2006.01) C22C 38/44 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01) C22C 38/54 (2006.01) C22C 38/58 (2006.01) C23C 2/06 (2006.01) C25D 3/22 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD FOR PRODUCING A STEEL SHEET HAVING EXCELLENT PROCESSABILITY BEFORE HOT FORMING, STEEL SHEET, PROCESS TO MANUFACTURE A HOT STAMPED PART AND HOT STAMPED PART</p> <p>[54] PROCEDE DE PRODUCTION D'UNE TOLE D'ACIER D'EXCELLENTE APTITUDE AU TRAITEMENT AVANT FORMAGE A CHAUD, TOLE D'ACIER, PROCEDE DE FABRICATION D'UNE PIECE ESTAMPEE A CHAUD ET PIECE ESTAMPEE A CHAUD</p> <p>[72] HERRY, DEBORAH, FR [72] GERMAIN, FABRICE, FR [72] PHILIPPOT, CLEMENT, FR [72] LE GUILLARD, SANDRA, FR [71] ARCELORMITTAL, LU [85] 2024-04-29 [86] 2022-11-02 (PCT/IB2022/060556) [87] (WO2023/079454) [30] IB (PCT/IB2021/060246) 2021-11-05</p>	<p>[51] Int.Cl. G01S 13/00 (2006.01) G01B 9/02 (2022.01)</p> <p>[25] EN</p> <p>[54] QUANTUM ENTANGLEMENT ENHANCED RADAR</p> <p>[54] RADAR AMELIORE A INTRICATION QUANTIQUE</p> <p>[72] HARVEY, CHARLES, US [71] AMERICAN QUANTUM TECHNOLOGY LLC, US [85] 2024-04-29 [86] 2022-11-03 (PCT/US2022/048768) [87] (WO2023/081251) [30] US (63/275,984) 2021-11-05</p> <hr/> <p style="text-align: center;">[21] 3,236,955 [13] A1</p> <p>[51] Int.Cl. A61K 9/19 (2006.01) A61K 41/00 (2020.01) A61K 47/18 (2017.01) A61P 35/00 (2006.01)</p> <p>[25] EN</p> <p>[54] PHARMACEUTICAL COMPOSITION COMPRISING P-BORONOPHENYLALANINE</p> <p>[54] COMPOSITION PHARMACEUTIQUE COMPRENANT DE LA P-BORONOPHENYLALANINE</p> <p>[72] SATOMAA, TERO, FI [72] NIEMELA, RITVA, FI [72] SAARINEN, JUHANI, FI [72] HELIN, JARI, FI [71] TENBORON OY, FI [85] 2024-05-01 [86] 2022-12-12 (PCT/FI2022/050826) [87] (WO2023/111396) [30] FI (20216268) 2021-12-13</p>	<p>[51] Int.Cl. A61K 31/437 (2006.01) A61K 31/5025 (2006.01) A61P 35/00 (2006.01)</p> <p>[25] EN</p> <p>[54] SOLID DISPERSION, PREPARATION METHOD THEREFOR, AND SOLID FORMULATION COMPRISING SAME</p> <p>[54] DISPERSION SOLIDE, SON PROCEDE DE PREPARATION ET FORMULATION SOLIDE LA CONTENANT</p> <p>[72] GAN, YONG, CN [72] ZHU, MIAO, CN [72] MA, YUANHUI, CN [72] LIU, LEI, CN [72] GUO, SHIYAN, CN [72] SHEN, JINGKANG, CN [72] GENG, MEIYU, CN [72] GAO, LI, CN [72] XIONG, BING, CN [71] HAIHE BIOPHARMA CO., LTD., CN [85] 2024-05-01 [86] 2022-11-01 (PCT/CN2022/129074) [87] (WO2023/078265) [30] CN (202111308836.4) 2021-11-05</p> <hr/> <p style="text-align: center;">[21] 3,236,957 [13] A1</p> <p>[51] Int.Cl. G06F 16/22 (2019.01) H04W 12/08 (2021.01) G06F 21/62 (2013.01) H04L 9/40 (2022.01)</p> <p>[25] EN</p> <p>[54] PRIVACY SENSITIVE ESTIMATION OF DIGITAL RESOURCE ACCESS FREQUENCY</p> <p>[54] ESTIMATION DE FREQUENCE D'ACCES A DES RESSOURCES NUMERIQUES SENSIBLE A LA CONFIDENTIALITE</p> <p>[72] MANURANGSI, PASIN, TH [72] RAVIKUMAR, SHANMUGASUNDARAM, US [72] KAMATH, PRITISH, US [72] GHAZI, BADIH, US [72] WU, KEWEN, US [71] GOOGLE LLC, US [85] 2024-05-01 [86] 2023-10-19 (PCT/US2023/035471) [87] (WO2024/086256) [30] US (63/417,847) 2022-10-20</p>

Demandes PCT entrant en phase nationale

[21] **3,236,958**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **EXTENDABLE SPLICE TRAY**
[54] **PLATEAU D'EPISSURE**
EXTENSIBLE
[72] CLINES, CAMERON, US
[72] LEVAC, DAN, US
[72] BECKER, MATT, US
[71] PREFORMED LINE PRODUCTS CO.,
US
[85] 2024-05-01
[86] 2022-10-31 (PCT/US2022/048427)
[87] (WO2023/076675)
[30] US (63/274,253) 2021-11-01

[21] **3,236,959**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) C12N**
15/113 (2010.01) A61K 31/7105
(2006.01) A61K 31/7115 (2006.01)
A61K 39/215 (2006.01) A61K 39/395
(2006.01) A61K 48/00 (2006.01) C12N
15/86 (2006.01)
[25] EN
[54] **SELF-AMPLIFYING RNA**
COMPOSITIONS AND METHODS
OF USE THEREOF
[54] **COMPOSITIONS D'ARN AUTO-**
AMPLIFIANT ET LEURS
PROCEDES D'UTILISATION
[72] HONG, SUE-JEAN, US
[72] FIDANZA, MARIO, US
[72] JOOSS, KARIN, US
[71] GRITSTONE BIO, INC., US
[85] 2024-05-01
[86] 2022-11-08 (PCT/US2022/079505)
[87] (WO2023/081935)
[30] US (63/277,116) 2021-11-08

[21] **3,236,960**
[13] A1

[51] **Int.Cl. B01J 23/85 (2006.01) B01J**
23/88 (2006.01) B01J 23/882 (2006.01)
B01J 31/06 (2006.01) C01B 15/047
(2006.01) C10G 45/08 (2006.01)
[25] EN
[54] **SUPPORTED HYDROTREATING**
CATALYSTS HAVING
ENHANCED ACTIVITY
[54] **CATALYSEURS**
D'HYDROTRAITEMENT
SUPPORTES PRESENTANT UNE
ACTIVITE AMELIOREE
[72] VLAAR, TJOSTIL, NL
[72] VOGELAAR, BASTIAAN
MAARTEN, NL
[72] RENKEMA-KRYSINA, VIKTORIA
ANDREEVNA, NL
[72] VEERMAN, WILHELMUS CLEMENS
JOZEF, NL
[72] EIJSBOUTS-SPICKOVA, SONA, NL
[71] KETJEN NETHERLANDS B.V., NL
[85] 2024-05-01
[86] 2022-11-04 (PCT/EP2022/080805)
[87] (WO2023/079070)
[30] US (63/276,194) 2021-11-05

[21] **3,236,961**
[13] A1

[51] **Int.Cl. B29B 11/08 (2006.01) B29C**
49/06 (2006.01) B29C 49/12 (2006.01)
B29C 49/20 (2006.01) B29C 49/48
(2006.01)
[25] EN
[54] **TOOLING ASSEMBLY FOR**
FORMING A CONTAINER BY
BLOW MOLDING
[54] **ENSEMBLE D'OUTILLAGE POUR**
FORMER UN RECIPIENT PAR
MOULAGE PAR SOUFFLAGE
[72] STRAPEEC, LAUREN, US
[72] LANE, MICHAEL T., US
[72] STELZER, JAMES, US
[72] MAST, LUKE A., US
[71] AMCOR RIGID PACKAGING USA,
LLC, US
[85] 2024-05-01
[86] 2021-11-03 (PCT/US2021/072213)
[87] (WO2023/080908)

[21] **3,236,962**
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) G06N**
3/084 (2023.01) G06N 3/098 (2023.01)
G06N 20/00 (2019.01)
[25] EN
[54] **DIFFERENTIALLY PRIVATE**
SPLIT VERTICAL LEARNING
[54] **APPRENTISSAGE VERTICAL**
FRACTIONNE A
CONFIDENTIALITE
DIFFERENTIELLE (DP)
[72] GAWRON, GRZEGORZ, PL
[72] STUBBINGS, PHILIP, GB
[72] NGO, CHI LANG, GB
[71] LIVERAMP, INC., US
[85] 2024-05-01
[86] 2022-11-02 (PCT/US2022/048661)
[87] (WO2023/081183)
[30] US (63/275,011) 2021-11-03

[21] **3,236,963**
[13] A1

[51] **Int.Cl. B65D 43/02 (2006.01) G02B**
6/38 (2006.01) G02B 6/44 (2006.01)
H01R 4/64 (2006.01) H01R 13/52
(2006.01) H01R 43/00 (2006.01) H02B
1/50 (2006.01) H02G 15/013 (2006.01)
H02G 15/113 (2006.01) H02G 15/115
(2006.01) H01R 13/59 (2006.01) H01R
13/622 (2006.01) H02G 15/117
(2006.01) H02G 15/192 (2006.01)
[25] EN
[54] **EXPANDABLE CLOSURE SYSTEM**
[54] **SYSTEME DE FERMETURE**
EXTENSIBLE
[72] CIESIELCZYK, BENJAMIN
FRANKLIN, US
[72] CLINES, CAMERON JOSEPH, US
[72] PALMER, JACOB JEFFREY, US
[71] PREFORMED LINE PRODUCTS CO.,
US
[85] 2024-05-01
[86] 2022-10-31 (PCT/US2022/048440)
[87] (WO2023/076680)
[30] US (63/274,259) 2021-11-01

PCT Applications Entering the National Phase

[21] **3,236,964**
[13] A1

[51] **Int.Cl. B29C 33/38 (2006.01) B33Y 10/00 (2015.01) B33Y 50/00 (2015.01) B33Y 80/00 (2015.01) B29C 45/26 (2006.01) B29C 49/48 (2006.01) B29C 67/00 (2017.01) B29C 64/386 (2017.01) G06F 30/00 (2020.01)**

[25] EN
[54] **MODULAR ADDITIVE MANUFACTURING PROCESS**
[54] **PROCEDE DE FABRICATION ADDITIVE MODULAIRE**
[72] VARGO, JAKE A., US
[72] KUHN JR., BERNARD A., US
[72] GEERS, GREGORY A., US
[71] MATTHEWS INTERNATIONAL CORPORATION, US
[85] 2024-05-01
[86] 2022-11-01 (PCT/US2022/048527)
[87] (WO2023/076714)
[30] US (63/274,163) 2021-11-01

[21] **3,236,965**
[13] A1

[51] **Int.Cl. B22F 3/115 (2006.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 40/00 (2020.01) B29C 64/153 (2017.01) B22F 10/22 (2021.01)**

[25] EN
[54] **METAL DROPLET DEPOSITION SYSTEM**
[54] **SYSTEME DE DEPOT DE GOUTTELETTES METALLIQUES**
[72] MCCAMBRIDGE, MATTHEW, US
[72] SCHMITT, PETER, US
[71] FLUENT METAL INC., US
[85] 2024-05-01
[86] 2022-11-22 (PCT/US2022/050699)
[87] (WO2023/091782)
[30] US (63/281,919) 2021-11-22
[30] US (63/288,897) 2021-12-13

[21] **3,236,966**
[13] A1

[51] **Int.Cl. B01D 53/04 (2006.01) F24F 8/00 (2021.01)**

[25] EN
[54] **MODULAR RADIAL ADSORBER BED FOR DIRECT AIR CAPTURE**
[54] **LIT D'ADSORBEUR RADIAL MODULAIRE POUR LA CAPTURE DIRECTE D'AIR**
[72] SCHMITT, WOLFGANG, IE
[72] VAESEN, SEBASTIEN, IE
[71] THE PROVOST, FELLOWS, FOUNDATION SCHOLARS, AND THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY AND UNDIVIDED TRINITY OF QUEEN ELIZABETH, NEAR DUBLIN, IE
[85] 2024-05-01
[86] 2022-11-14 (PCT/EP2022/081742)
[87] (WO2023/084069)
[30] GB (2116407.4) 2021-11-15

[21] **3,236,967**
[13] A1

[51] **Int.Cl. B01J 6/00 (2006.01) F27B 1/00 (2006.01)**

[25] EN
[54] **IMPROVEMENT IN A VERTICAL KILN**
[54] **AMELIORATION APPORTEE A UN FOUR VERTICAL**
[72] UNLU, CEMAL, TR
[71] UNLU, CEMAL, TR
[85] 2024-05-01
[86] 2022-11-04 (PCT/TR2022/051243)
[87] (WO2023/101643)
[30] TR (2021/018846) 2021-11-30

[21] **3,236,969**
[13] A1

[51] **Int.Cl. A61K 31/4152 (2006.01) A61K 31/045 (2006.01) A61P 25/28 (2006.01)**

[25] EN
[54] **APPLICATION OF COMPOSITION CONTAINING EDARAVONE AND DEXBORNEOL IN IMPROVING OR TREATING COGNITIVE IMPAIRMENT**
[54] **APPLICATION D'UNE COMPOSITION CONTENANT DE L'EDARAVONE ET DU DEXBORNEOL DANS L'AMELIORATION OU LE TRAITEMENT D'UNE DEFICIENCE COGNITIVE**
[72] ZHANG, ZHENGPING, CN
[72] WANG, LEI, CN
[72] CHEN, RONG, CN
[72] YANG, SHIBAO, CN
[72] REN, JINSHENG, CN
[71] NEURODAWN PHARMACEUTICAL CO., LTD., CN
[71] SIMCERE PHARMACEUTICAL CO., LTD, CN
[85] 2024-05-01
[86] 2022-11-03 (PCT/CN2022/129456)
[87] (WO2023/078325)
[30] CN (202111311631.1) 2021-11-08

[21] **3,236,971**
[13] A1

[51] **Int.Cl. G10L 15/197 (2013.01) G10L 15/06 (2013.01)**

[25] EN
[54] **METHOD AND SYSTEM FOR UNSUPERVISED DISCOVERY OF UNIGRAMS IN SPEECH RECOGNITION SYSTEMS**
[54] **PROCEDE ET SYSTEME DE DECOUVERTE NON SUPERVISEE D'UNIGRAMMES DANS DES SYSTEMES DE RECONNAISSANCE VOCALE**
[72] HAIKIN, LEV, IL
[72] MAZZA, ARNON, IL
[72] ORBACH, EYAL, IL
[72] FAIZAKOF, AVRAHAM, IL
[71] GENESYS CLOUD SERVICES, INC., US
[85] 2024-05-01
[86] 2022-11-08 (PCT/US2022/049251)
[87] (WO2023/081504)
[30] US (17/520,816) 2021-11-08

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[21] **3,236,973**
[13] A1

[51] **Int.Cl. A63B 21/005 (2006.01) A63B 21/22 (2006.01) A63B 69/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD TO RESIST MOTION OF HUMAN POWERED VEHICLES**
[54] **SYSTEME ET PROCEDE POUR RESISTER AU MOUVEMENT DE VEHICULES A PROPULSION HUMAINE**
[72] TATUM, JOHN TYLER, US
[72] GARMON, RONNIE JACK, US
[72] EMLEY, BENJAMIN JASON, US
[72] RAJESH, SUYASH, US
[71] GOSLO, LLC, US
[85] 2024-05-01
[86] 2022-11-02 (PCT/US2022/079100)
[87] (WO2023/081668)
[30] US (63/275,203) 2021-11-03

[21] **3,236,974**
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) A61M 99/00 (2012.01)**
[25] EN
[54] **INHALATION AND EXHALATION DEVICES**
[54] **DISPOSITIFS D'INHALATION ET D'EXPIRATION**
[72] TAL, ELISHA, IL
[72] MOHEBAN, RAZ, IL
[72] WALLACH, ADI, US
[72] YAKOBY, MICHAEL, IL
[71] DENDRO TECHNOLOGIES, INC., US
[85] 2024-05-01
[86] 2022-11-08 (PCT/US2022/049182)
[87] (WO2023/081489)
[30] US (63/276,744) 2021-11-08

[21] **3,236,976**
[13] A1

[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/06 (2006.01) A61M 16/20 (2006.01)**
[25] EN
[54] **PATIENT INTERFACE INCLUDING FLOW GENERATOR**
[54] **INTERFACE PATIENT COMPRENANT UN GENERATEUR DE FLUX**
[72] FORMICA, JUSTIN JOHN, AU
[72] WELLS, MATTHEW ROBIN, AU
[72] DEUBEL, SEBASTIEN, AU
[72] FOSTER, SOPHIE EVELYN, AU
[72] TRUSCOTT, MICHAEL KENNETH, AU
[72] KENYON, BARTON JOHN, AU
[72] VESCHAMBRE, ETIENNE, AU
[72] MUN, SUNG HOON, AU
[72] THOMAS, HUGH FRANCIS STEWART, AU
[72] WIJOYOSENO, MAXIMILIAN AJI, AU
[72] KAPADIA, JEEGARKUMAR SUBHASHCHANDRA, AU
[72] MOIR, MICHAEL BRUCE, AU
[72] EDWARDS, CHRISTOPHER SCOTT, AU
[72] JEUNG, SUNG HWA, AU
[71] RESMED PTY LTD, AU
[85] 2024-05-01
[86] 2022-11-04 (PCT/AU2022/051321)
[87] (WO2023/077192)
[30] US (63/276,370) 2021-11-05

[21] **3,236,978**
[13] A1

[51] **Int.Cl. C25B 1/02 (2006.01) C25B 1/23 (2021.01) C25B 9/23 (2021.01) C25B 11/031 (2021.01) C25B 11/047 (2021.01)**
[25] EN
[54] **ELECTROCHEMICAL PRODUCER FOR HYDROGEN OR CARBON MONOXIDE**
[54] **PRODUCTEUR ELECTROCHIMIQUE D'HYDROGENE OU DE MONOXYDE DE CARBONE**
[72] FARANDOS, NICHOLAS, IE
[72] DAWSON, MATTHEW, US
[72] DAWSON, JIN, US
[72] DANA, JASON, US
[72] STILSON, THOMAS, US
[71] UTILITY GLOBAL, INC., US
[85] 2024-05-01
[86] 2022-12-05 (PCT/US2022/051784)
[87] (WO2023/107361)
[30] US (63/286,974) 2021-12-07
[30] US (63/289,421) 2021-12-14

[21] **3,236,979**
[13] A1

[51] **Int.Cl. G08C 17/02 (2006.01) H04B 7/06 (2006.01)**
[25] EN
[54] **COMMUNICATION METHOD, DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE DE COMMUNICATION, DISPOSITIF, ET SUPPORT DE STOCKAGE**
[72] YE, ZHENGZHENG, CN
[71] ZTE CORPORATION, CN
[85] 2024-05-01
[86] 2023-01-16 (PCT/CN2023/072242)
[87] (WO2023/143152)
[30] CN (202210094626.8) 2022-01-26

[21] **3,236,980**
[13] A1

[51] **Int.Cl. C25B 1/23 (2021.01) C25B 9/015 (2021.01) C25B 9/23 (2021.01) C25B 11/047 (2021.01) C25B 13/07 (2021.01)**
[25] EN
[54] **ELECTROCHEMICAL PRODUCTION OF CARBON MONOXIDE AND VALUABLE PRODUCTS**
[54] **PRODUCTION ELECTROCHIMIQUE DE MONOXYDE DE CARBONE ET DE PRODUITS VALORISABLES**
[72] DAWSON, MATTHEW, US
[72] FARANDOS, NICHOLAS, IE
[72] DAWSON, JIN, US
[72] DANA, JASON, US
[71] UTILITY GLOBAL, INC., US
[85] 2024-05-01
[86] 2022-11-30 (PCT/US2022/051391)
[87] (WO2023/102039)
[30] US (63/284,830) 2021-12-01
[30] US (63/289,421) 2021-12-14

PCT Applications Entering the National Phase

<p style="text-align: center;">[21] 3,236,985 [13] A1</p> <p>[51] Int.Cl. B01J 21/04 (2006.01) B01J 21/10 (2006.01) B01J 23/00 (2006.01) B01J 23/745 (2006.01) B01J 35/00 (2024.01) B01J 37/00 (2006.01) B01J 37/02 (2006.01) B01J 37/08 (2006.01) B01J 37/12 (2006.01) B01J 37/16 (2006.01)</p> <p>[25] FR</p> <p>[54] OXYGEN-CARRIER SOLID BASED ON IRON AND SUB-STOICHIOMETRIC SPINEL FOR A CHEMICAL-LOOPING REDOX PROCESS</p> <p>[54] SOLIDE PORTEUR D'OXYGENE A BASE DE FER ET DE SPINELLE SOUS-STOECHIMETRIQUE POUR UN PROCEDE D'OXYDO-REDUCTION EN BOUCLE CHIMIQUE</p> <p>[72] LAMBERT, ARNOLD, FR [72] MICHAU, MATHIEU, FR [71] IFP ENERGIES NOUVELLES, FR [71] TOTALENERGIES ONETECH, FR [85] 2024-05-01 [86] 2023-01-20 (PCT/EP2023/051436) [87] (WO2023/139235) [30] FR (FR2200596) 2022-01-24</p>	<p style="text-align: center;">[21] 3,236,987 [13] A1</p> <p>[51] Int.Cl. G06Q 50/16 (2024.01)</p> <p>[25] EN</p> <p>[54] PROPERTY RESOURCE LOCATION AND INFORMATION SHARING SYSTEM</p> <p>[54] SYSTEME DE PARTAGE D'INFORMATIONS ET DE LOCALISATION DE RESSOURCES DE PROPRIETE</p> <p>[72] LEITH, ANDREW, US [71] CHASING BACON, LLC, US [85] 2024-05-01 [86] 2022-08-18 (PCT/US2022/040699) [87] (WO2023/075896) [30] US (17/516,397) 2021-11-01</p>	<p style="text-align: center;">[21] 3,236,992 [13] A1</p> <p>[51] Int.Cl. H02J 3/00 (2006.01) H02J 3/38 (2006.01) H02J 9/00 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR ELECTRICAL INVERTER AND SMART LOAD CONTROL INTEGRATION</p> <p>[54] SYSTEMES ET PROCEDES POUR ONDULEUR ELECTRIQUE ET INTEGRATION DE COMMANDE DE CHARGE INTELLIGENTE</p> <p>[72] WANG, JINZE, US [72] GATHRIGHT, WILLIAM, US [71] FORTRESS POWER, US [71] WANG, JINZE, US [71] GATHRIGHT, WILLIAM, US [85] 2024-05-01 [86] 2022-11-10 (PCT/US2022/049612) [87] (WO2023/086518) [30] US (63/277,686) 2021-11-10</p>
<p style="text-align: center;">[21] 3,236,986 [13] A1</p> <p>[51] Int.Cl. C01C 1/04 (2006.01) C25B 1/04 (2021.01) F04D 29/10 (2006.01) F16J 15/40 (2006.01) F25J 3/04 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM FOR AMMONIA PRODUCTION INCLUDING HYDROGEN LEAK RECOVERY FROM DRY GAS SEALS OF HYDROGEN COMPRESSOR, AND METHOD</p> <p>[54] SYSTEME DE PRODUCTION D'AMMONIAC COMPRENANT UNE RECUPERATION DE FUITE D'HYDROGENE A PARTIR DE GARNITURES SECHES D'UN COMPRESSEUR D'HYDROGENE, ET METHODE</p> <p>[72] GUGLIELMO, ALBERTO, IT [72] MATINA, DARIO, IT [72] GRIMALDI, ANGELO, IT [72] MASI, GUIDO, IT [72] MEAZZINI, GIULIA, IT [71] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT [85] 2024-05-01 [86] 2022-11-02 (PCT/EP2022/025493) [87] (WO2023/078584) [30] IT (102021000028343) 2021-11-08</p>	<p style="text-align: center;">[21] 3,236,988 [13] A1</p> <p>[51] Int.Cl. G06Q 20/32 (2012.01) G06Q 20/34 (2012.01) G06Q 20/40 (2012.01)</p> <p>[25] EN</p> <p>[54] AUTOFILLING DATA BASED ON ACCOUNT AUTHENTICATION USING A CONTACTLESS CARD</p> <p>[54] REPLISSAGE AUTOMATIQUE DE DONNEES BASE SUR UNE AUTHENTIFICATION DE COMPTE A L'AIDE D'UNE CARTE SANS CONTACT</p> <p>[72] RULE, JEFFREY, US [72] LUTZ, WAYNE, US [71] CAPITAL ONE SERVICES, LLC., US [85] 2024-05-01 [86] 2022-04-19 (PCT/US2022/025285) [87] (WO2023/091182) [30] US (17/530,837) 2021-11-19</p>	<p style="text-align: center;">[21] 3,236,994 [13] A1</p> <p>[51] Int.Cl. A01N 25/34 (2006.01) D04H 1/425 (2012.01) D04H 1/4258 (2012.01) D04H 1/492 (2012.01) A47L 13/17 (2006.01) A61K 8/02 (2006.01) D04H 1/74 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD FOR MAKING A NONWOVEN MATERIAL WITH REDUCED QUATERNARY AMMONIUM AFFINITY</p> <p>[54] PROCEDE DE FABRICATION D'UN MATERIAU NON TISSE A AFFINITE REDUITE D'AMMONIUM QUATERNAIRE</p> <p>[72] BLACK, SAMUEL KEITH, US [72] TEIXEIRA, LUIS, US [72] LAYER, JONATHAN, US [72] NICHOLSON, JIMMY, US [71] FIBERTEX NONWOVENS A/S, DK [85] 2024-05-01 [86] 2022-10-13 (PCT/EP2022/078461) [87] (WO2023/104374) [30] EP (21212717.9) 2021-12-07</p>
<p style="text-align: center;">[21] 3,236,990 [13] A1</p> <p>[51] Int.Cl. E04G 5/08 (2006.01) E04G 1/15 (2006.01)</p> <p>[25] EN</p> <p>[54] FLOOR PART FOR A SCAFFOLD, AND SCAFFOLDING SYSTEM</p> <p>[54] PARTIE DE PLANCHER POUR ECHAFAUDAGE, ET SYSTEME D'ECHAFAUDAGE</p> <p>[72] BRINKMANN, FRANCISCUS JOZEF LEONARDUS HUBERTUS, NL [71] SCAFOM HOLDING B.V., NL [85] 2024-05-01 [86] 2022-10-28 (PCT/NL2022/050604) [87] (WO2023/080777) [30] NL (2029592) 2021-11-02</p>	<p style="text-align: center;">[21] 3,236,992 [13] A1</p> <p>[51] Int.Cl. H02J 3/00 (2006.01) H02J 3/38 (2006.01) H02J 9/00 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR ELECTRICAL INVERTER AND SMART LOAD CONTROL INTEGRATION</p> <p>[54] SYSTEMES ET PROCEDES POUR ONDULEUR ELECTRIQUE ET INTEGRATION DE COMMANDE DE CHARGE INTELLIGENTE</p> <p>[72] WANG, JINZE, US [72] GATHRIGHT, WILLIAM, US [71] FORTRESS POWER, US [71] WANG, JINZE, US [71] GATHRIGHT, WILLIAM, US [85] 2024-05-01 [86] 2022-11-10 (PCT/US2022/049612) [87] (WO2023/086518) [30] US (63/277,686) 2021-11-10</p>	

Demandes PCT entrant en phase nationale

<p style="text-align: center;">[21] 3,236,996 [13] A1</p> <p>[51] Int.Cl. B25J 9/10 (2006.01) B25J 15/00 (2006.01) B25J 15/02 (2006.01)</p> <p>[25] FR</p> <p>[54] FINGER AND GRIPPING DEVICE FOR ROBOT ARM, AND ROBOT ARM EQUIPPED WITH SUCH A DEVICE</p> <p>[54] DOIGT ET DISPOSITIF DE PREHENSION POUR BRAS DE ROBOT, BRAS DE ROBOT EQUIPE D'UN TEL DISPOSITIF</p> <p>[72] CECCHIN, MICHEL, FR</p> <p>[72] MILHAU, PIERRE, FR</p> <p>[72] GROSSARD, MATHIEU, FR</p> <p>[71] FINRIP, FR</p> <p>[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR</p> <p>[85] 2024-05-01</p> <p>[86] 2022-11-04 (PCT/EP2022/080885)</p> <p>[87] (WO2023/079122)</p> <p>[30] FR (FR2111734) 2021-11-04</p>	<p style="text-align: center;">[21] 3,236,998 [13] A1</p> <p>[51] Int.Cl. A62C 27/00 (2006.01) B05B 15/70 (2018.01) A62C 2/08 (2006.01) A62C 3/02 (2006.01) A62C 31/00 (2006.01) B05B 3/18 (2006.01) B60P 3/30 (2006.01)</p> <p>[25] EN</p> <p>[54] MOBILE LIQUID DEPLOYMENT VEHICLE AND SYSTEM</p> <p>[54] VEHICULE DE DEPLOIEMENT DE LIQUIDE MOBILE ET SYSTEME</p> <p>[72] MCKEEN, DAVID BRIAN, CA</p> <p>[71] WALL OF WATER INC., CA</p> <p>[85] 2024-05-01</p> <p>[86] 2021-11-04 (PCT/CA2021/051569)</p> <p>[87] (WO2023/077209)</p>	<p style="text-align: center;">[21] 3,237,001 [13] A1</p> <p>[51] Int.Cl. A61K 8/64 (2006.01) A61K 8/9789 (2017.01) A61Q 19/00 (2006.01) A61Q 19/08 (2006.01)</p> <p>[25] EN</p> <p>[54] COSMETIC COMPOSITIONS AND METHOD OF USING THE SAME</p> <p>[54] COMPOSITIONS COSMETIQUES ET LEUR PROCEDE D'UTILISATION</p> <p>[72] PERNODET, NADINE, US</p> <p>[72] CHEN, CHIA-WEN, US</p> <p>[72] TRIVERO, JACQUELINE MARY, US</p> <p>[72] CORALLO, KRISTEL RITA, US</p> <p>[71] ELC MANAGEMENT LLC, US</p> <p>[85] 2024-05-01</p> <p>[86] 2022-11-07 (PCT/US2022/049175)</p> <p>[87] (WO2023/086305)</p> <p>[30] US (63/277,487) 2021-11-09</p>
<p style="text-align: center;">[21] 3,236,997 [13] A1</p> <p>[51] Int.Cl. B05B 7/04 (2006.01) B65D 83/68 (2006.01)</p> <p>[25] EN</p> <p>[54] ACTUATOR FOR A DUAL PUMP DISPENSING SYSTEM</p> <p>[54] ACTIONNEUR POUR SYSTEME DE DISTRIBUTION A DOUBLE POMPE</p> <p>[72] QUE, CHUZHEN, CN</p> <p>[72] CHEN, YUN, CN</p> <p>[72] JIN, JING, CN</p> <p>[71] ELC MANAGEMENT LLC, US</p> <p>[85] 2024-05-01</p> <p>[86] 2021-11-08 (PCT/CN2021/129275)</p> <p>[87] (WO2023/077507)</p>	<p style="text-align: center;">[21] 3,236,999 [13] A1</p> <p>[51] Int.Cl. B08B 1/00 (2024.01) B08B 3/08 (2006.01) B08B 3/10 (2006.01)</p> <p>[25] EN</p> <p>[54] JEWELRY CLEANING DEVICE</p> <p>[54] DISPOSITIF DE NETTOYAGE DE BIJOUX</p> <p>[72] FRYSH, JEFFREY, US</p> <p>[72] STEPHENS, PAUL DANA, US</p> <p>[72] SPIRK, EVAN, US</p> <p>[72] YE, DANWEI, US</p> <p>[72] RABBITT, WILLIAM EUGENE, US</p> <p>[71] GEM OASIS, LLC, US</p> <p>[85] 2024-05-01</p> <p>[86] 2022-11-03 (PCT/US2022/048886)</p> <p>[87] (WO2023/081316)</p> <p>[30] US (63/275,014) 2021-11-03</p>	<p style="text-align: center;">[21] 3,237,002 [13] A1</p> <p>[51] Int.Cl. C03C 17/00 (2006.01) C03C 17/28 (2006.01)</p> <p>[25] EN</p> <p>[54] FORMULATION FOR COATING GLASS CONTAINERS</p> <p>[54] FORMULATION POUR LE REVETEMENT DE RECIPIENTS EN VERRE</p> <p>[72] HOEKMAN, LEENDERT, NL</p> <p>[71] ARKEMA FRANCE, FR</p> <p>[85] 2024-05-01</p> <p>[86] 2022-11-30 (PCT/EP2022/083860)</p> <p>[87] (WO2023/099570)</p> <p>[30] FR (FR 2112813) 2021-12-01</p>
<p style="text-align: center;">[21] 3,237,000 [13] A1</p> <p>[51] Int.Cl. G09B 5/00 (2006.01) G06Q 50/20 (2012.01) H04L 67/50 (2022.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR INTERACTIVE SCHOOL JOURNAL</p> <p>[54] SYSTEME ET PROCEDE POUR JOURNAL SCOLAIRE INTERACTIF</p> <p>[72] TURNER, RAQUEL, CA</p> <p>[71] TURNER, RAQUEL, CA</p> <p>[85] 2024-05-01</p> <p>[86] 2022-11-02 (PCT/IB2022/060568)</p> <p>[87] (WO2023/079462)</p> <p>[30] US (63/274,795) 2021-11-02</p>	<p style="text-align: center;">[21] 3,237,003 [13] A1</p> <p>[51] Int.Cl. A61K 31/7088 (2006.01) A61K 38/16 (2006.01) A61K 48/00 (2006.01) C12N 15/10 (2006.01) C12N 15/82 (2006.01) C12N 15/85 (2006.01) C12Q 1/68 (2018.01)</p> <p>[25] EN</p> <p>[54] DNA REVERTASE</p> <p>[54] TRANSCRIPTASE INVERSE DE L'ADN</p> <p>[72] CHURCH, GEORGE MCDONALD, US</p> <p>[72] SHARIFI, MOHAMED SAMIN, DE</p> <p>[72] BRADLEY, CHRISTOPHER, US</p> <p>[71] BRADLEY, CHRISTOPHER, US</p> <p>[85] 2024-05-01</p> <p>[86] 2022-11-01 (PCT/US2022/048617)</p> <p>[87] (WO2023/076741)</p> <p>[30] US (63/274,128) 2021-11-01</p> <p>[30] US (63/340,605) 2022-05-11</p>	

PCT Applications Entering the National Phase

[21] **3,237,004**
[13] A1

[51] **Int.Cl. C07K 14/715 (2006.01) A61K 35/17 (2015.01) A61K 47/68 (2017.01) A61K 38/17 (2006.01) A61P 37/06 (2006.01) C07K 14/525 (2006.01) C07K 16/00 (2006.01) C07K 19/00 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **B CELL ACTIVATING FACTOR (BAFF)-A PROLIFERATION INDUCING LIGAND (APRIL) DUAL INHIBITORS**

[54] **INHIBITEURS DOUBLES DE FACTEUR D'ACTIVATION DES LYMPHOCYTES B (BAFF)-LIGAND A INDUISANT LA PROLIFERATION (APRIL)**

[72] CROSS, JENNIFER, CA
[72] HUIZINGA, ROBERT B., CA
[72] LARRICK, JAMES WILLIAM, US
[72] YU, BO, US
[72] PARMLEY, STEPHEN, US
[71] AURINIA PHARMACEUTICALS INC., CA
[85] 2024-05-01
[86] 2022-11-16 (PCT/IB2022/061038)
[87] (WO2023/089500)
[30] US (63/280,556) 2021-11-17
[30] US (63/339,334) 2022-05-06
[30] US (63/350,392) 2022-06-08

[21] **3,237,005**
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) A61K 31/198 (2006.01) A61K 31/27 (2006.01) C07C 271/12 (2006.01) C07C 323/59 (2006.01)**

[25] EN

[54] **METHODS AND KITS FOR DETERMINING INSULIN RESISTANCE TREATMENT**

[54] **PROCEDES ET KITS POUR DETERMINER UN TRAITEMENT DE RESISTANCE A L'INSULINE**

[72] LAUTT, WAYNE W., CA
[71] SCIMAR LTD., CA
[85] 2024-05-01
[86] 2022-11-04 (PCT/CA2022/051636)
[87] (WO2023/077236)
[30] US (63/275,786) 2021-11-04

[21] **3,237,006**
[13] A1

[51] **Int.Cl. A61B 18/20 (2006.01) A61B 17/00 (2006.01) A61B 18/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PIGMENT REMOVAL**

[54] **SYSTEME ET PROCEDE D'ELIMINATION DE PIGMENT**

[72] YAKOV, YANIV, US
[71] EPILADY 2000 LLC, US
[85] 2024-05-01
[86] 2022-11-17 (PCT/US2022/050309)
[87] (WO2023/091603)
[30] EP (21209111.0) 2021-11-18

[21] **3,237,007**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/32 (2006.01)**

[25] EN

[54] **POLYPROPYLENE COMPOSITE MATERIAL HAVING MELTING POINT GRADIENT STRUCTURE, PREPARATION METHOD THEREFOR AND SYSTEM AND USE THEREOF**

[54] **MATERIAU COMPOSITE DE POLYPROPYLENE PRESENTANT UNE STRUCTURE DE GRADIENT DE POINT DE FUSION, PROCEDE DE PREPARATION ASSOCIE ET SYSTEME ET UTILISATION ASSOCIEE**

[72] CHU, LIQIU, CN
[72] ZHANG, FENGQIAN, CN
[72] XU, YIHUI, CN
[72] GAO, DALI, CN
[72] ZHANG, SHIJUN, CN
[72] QIAO, JINLIANG, CN
[72] KONG, DEHUI, CN
[72] CHOU, BAIGE, CN
[72] XIA, LIDONG, CN
[72] BAI, YIQING, CN
[72] XU, KAI, CN
[72] REN, YUEMING, CN
[72] ZHAO, YACHAO, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CH..., CN
[85] 2024-05-01
[86] 2022-11-07 (PCT/CN2022/130241)
[87] (WO2023/078441)
[30] CN (202111312236.5) 2021-11-08
[30] CN (202111312930.7) 2021-11-08
[30] CN (202111312932.6) 2021-11-08

[21] **3,237,008**
[13] A1

[51] **Int.Cl. F04B 1/16 (2006.01) F04B 9/04 (2006.01)**

[25] EN

[54] **FLUID PUMP**

[54] **POMPE A FLUIDE**

[72] CHEN, JIADA, CN
[72] GOODWIN, RANDY M., US
[71] OMS INVESTMENTS, INC., US
[85] 2024-05-01
[86] 2021-11-07 (PCT/CN2021/129170)
[87] (WO2023/077492)

[21] **3,237,009**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**

[25] EN

[54] **LURBINECTEDIN AND ATEZOLIZUMAB COMBINATIONS**

[54] **ASSOCIATIONS DE LURBINECTEDINE ET D'ATEZOLIZUMAB**

[72] PAZ-ARES RODRIGUEZ, LUIS GONZAGA, ES
[72] PONCE AIX, SANTIAGO, ES
[72] FUDIO MUNOZ, SALVADOR, ES
[71] PHARMA MAR, S.A.U., ES
[85] 2024-05-01
[86] 2022-11-08 (PCT/EP2022/081155)
[87] (WO2023/079177)
[30] EP (21383013.6) 2021-11-08

[21] **3,237,010**
[13] A1

[51] **Int.Cl. F02M 65/00 (2006.01)**

[25] EN

[54] **A METHOD FOR TESTING A FUEL INJECTOR FOR AN INTERNAL COMBUSTION ENGINE**

[54] **PROCEDE DE TEST D'UN INJECTEUR DE CARBURANT POUR UN MOTEUR A COMBUSTION INTERNE**

[72] YUDANOV, SERGI, SE
[71] VOLVO TRUCK CORPORATION, SE
[85] 2024-05-01
[86] 2022-11-03 (PCT/EP2022/080680)
[87] (WO2023/079002)
[30] SE (2151362-7) 2021-11-05

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[21] **3,237,011**
[13] A1

[51] **Int.Cl. C07D 513/20 (2006.01)**
[25] EN
[54] **MACROCYCLIC 2-AMINO-BUT-3-ENAMIDES AS INHIBITORS OF MCL-1**
[54] **2-AMINO-BUT-3-ENAMIDES MACROCYCLIQUES UTILISES EN TANT QU'INHIBITEURS DE MCL-1**
[72] JERHAOUI, SOUFYAN, BE
[72] DIELS, GASTON STANISLAS M, BE
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2024-05-01
[86] 2022-11-15 (PCT/EP2022/081981)
[87] (WO2023/088894)
[30] EP (21208372.9) 2021-11-16

[21] **3,237,012**
[13] A1

[51] **Int.Cl. H01M 50/242 (2021.01) H01M 50/211 (2021.01) H01M 50/249 (2021.01) H01M 50/358 (2021.01)**
[25] EN
[54] **BATTERY PACK, AND VEHICLE INCLUDING THE SAME**
[54] **BLOC-BATTERIE ET VEHICULE LE COMPRENANT**
[72] PARK, JEONG-HOON, KR
[72] YOON, KA-HYUN, KR
[72] JUNG, HYE-MI, KR
[72] CHANG, HYUK-KYUN, KR
[72] CHOI, JUNG-WOO, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-01
[86] 2023-07-11 (PCT/KR2023/009894)
[87] (WO2024/019403)
[30] KR (10-2022-0089756) 2022-07-20
[30] KR (10-2022-0089757) 2022-07-20
[30] KR (10-2023-0090097) 2023-07-11

[21] **3,237,013**
[13] A1

[51] **Int.Cl. A61K 31/56 (2006.01) C12N 15/113 (2010.01) A61K 31/7125 (2006.01) A61P 21/00 (2006.01) A61P 25/28 (2006.01)**
[25] FR
[54] **PHYTOECDYSONES AND/OR 20-HYDROXYECDYSONE DERIVATIVES IN COMBINATION WITH AN ACTIVE INGREDIENT FOR RESTORING SMN EXPRESSION, FOR USE IN THE TREATMENT OF SPINAL MUSCULAR ATROPHY**
[54] **PHYTOECDYSONES ET/OU DERIVES DE 20-HYDROXYECDYSONE EN COMBINAISON AVEC UN PRINCIPE ACTIF VISANT A RESTAURER L'EXPRESSION SMN POUR LEUR UTILISATION DANS LE TRAITEMENT DE L'AMYOTROPHIE SPINALE**
[72] LATIL, MATHILDE, FR
[72] BEZIER, CYNTHIA, FR
[72] DILDA, PIERRE, FR
[72] LAFONT, RENE, FR
[72] VEILLET, STANISLAS, FR
[72] CHARBONNIER, FREDERIC, FR
[72] BIONDI, OLIVIER, FR
[71] BIOPHYTIS, FR
[71] SORBONNE UNIVERSITE, FR
[71] UNIVERSITE PARIS CITE, FR
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE(INSERM), FR
[85] 2024-05-01
[86] 2022-11-04 (PCT/EP2022/080839)
[87] (WO2023/083718)
[30] FR (FR2111920) 2021-11-10

[21] **3,237,014**
[13] A1

[51] **Int.Cl. H01M 10/04 (2006.01) H01M 10/0587 (2010.01) H01M 50/533 (2021.01)**
[25] EN
[54] **JELLY-ROLL WITH IMPROVED ELECTROLYTE IMPREGNATION PROPERTY, AND CYLINDRICAL BATTERY CELL, BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **ROULEAU DE GELEE DOTE D'UNE PROPRIETE D'IMPREGNATION D'ELECTROLYTE AMELIOREE, ET ELEMENT DE BATTERIE CYLINDRIQUE, BLOC-BATTERIE ET VEHICULE LE COMPRENANT**
[72] LEE, YUN-JU, KR
[72] RYU, DUK-HYUN, KR
[72] LEE, KWAN-HEE, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-01
[86] 2022-10-28 (PCT/KR2022/016735)
[87] (WO2023/085665)
[30] KR (10-2021-0153452) 2021-11-09

[21] **3,237,015**
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **HETEROBIFUNCTIONAL COMPOUNDS AS HPK1 DEGRADERS**
[54] **COMPOSES HETEROBIFONCTIONNELS UTILISES COMME AGENTS DE DEGRADATION DE HPK1**
[72] JIN, JIAN, US
[72] BURAKOFF, STEVEN, US
[72] KANISKAN, H. UMIT, US
[72] SAWASDIKOSOL, SANSANA, US
[72] WITTER, DAVID, CA
[71] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[71] CULLINAN ONCOLOGY, INC., US
[85] 2024-05-01
[86] 2022-11-23 (PCT/US2022/050929)
[87] (WO2023/097020)
[30] US (63/264,506) 2021-11-23

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[21] **3,237,016**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01)**
[25] EN
[54] **TREATMENT OF CANCER WITH NK CELLS AND MULTISPECIFIC ENGAGERS**
[54] **TRAITEMENT DU CANCER PAR DES CELLULES NK ET DES AGENTS DE MISE EN CONTACT MULTISPECIFIQUES**
[72] FLYNN, PETER, US
[72] LITTEN, JASON B., US
[72] FARRELL, THOMAS JAMES, US
[72] RAYMON, HEATHER KAREN, US
[72] SOMANCHI, SRINIVAS SAI, IN
[72] GUERRETTAZ, LISA, US
[72] GRAEF, THORSTEN, US
[72] KOCH, JOACHIM, DE
[72] PAHL, JENS, DE
[72] MIN, BOKYUNG, KR
[72] KIM, HYOJIN, KR
[72] LEE, SANGHYUN, KR
[71] ARTIVA BIOTHERAPEUTICS, INC., US
[71] AFFIMED GMBH, DE
[71] GC CELL CORPORATION, KR
[85] 2024-05-01
[86] 2022-11-03 (PCT/US2022/048887)
[87] (WO2023/081317)
[30] US (63/275,890) 2021-11-04

[21] **3,237,017**
[13] A1

[51] **Int.Cl. D04H 1/4291 (2012.01) D04H 1/4382 (2012.01) D04H 1/4391 (2012.01) D04H 1/541 (2012.01) D04H 3/007 (2012.01) D04H 3/147 (2012.01) D01D 5/22 (2006.01) D01D 5/32 (2006.01)**
[25] EN
[54] **NONWOVEN MATERIAL COMPRISING CRIMPED MULTICOMPONENT FIBERS**
[54] **MATERIAU NON TISSE COMPRENANT DES FIBRES MULTICOMPOSANTS FRISEES**
[72] WANG, JINGBO, AT
[72] FIEBIG, JOACHIM EDMUND, AT
[72] VAN PARIDON, HENK, BE
[72] TOBIESON, GUSTAF, SE
[72] SOMMER, SEBASTIAN, DE
[72] BOHL, PATRICK, DE
[72] GEUS, HANS-GEORG, DE
[72] HANSEN, MORTEN, RISE, DK
[72] AGERSNAP SCHERER, MATHIAS, GB
[72] BROCH, THOMAS, DK
[71] FIBERTEX PERSONAL CARE A/S, DK
[71] REIFENHAUSER GMBH & CO. KG MASCHINENFABRIK, DE
[85] 2024-05-01
[86] 2023-01-03 (PCT/EP2023/050033)
[87] (WO2023/131591)
[30] EP (22150331.1) 2022-01-05

[21] **3,237,018**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **BISPECIFIC CD16A BINDERS**
[54] **LIANTS DE CD16A BISPECIFIQUES**
[72] KOCH, JOACHIM, DE
[72] PAHL, JENS, DE
[72] ROSS, THORSTEN, DE
[72] SIEGLER, JANA-JULIA, DE
[72] DULAT, HOLGER, DE
[71] AFFIMED GMBH, DE
[85] 2024-05-01
[86] 2022-11-03 (PCT/IB2022/060614)
[87] (WO2023/079493)
[30] EP (21206329.1) 2021-11-03
[30] EP (21213774.9) 2021-12-10
[30] EP (22187329.2) 2022-07-27
[30] US (63/369,602) 2022-07-27

[21] **3,237,019**
[13] A1

[51] **Int.Cl. F25J 1/00 (2006.01)**
[25] EN
[54] **CARBON CAPTURE SYSTEM AND METHOD WITH EXHAUST GAS RECIRCULATION**
[54] **SYSTEME ET PROCEDE DE CAPTURE DE CARBONE AVEC RECIRCULATION DE GAZ D'ECHAPPEMENT**
[72] BAXTER, LARRY, US
[72] VIPPERLA, RAVIKUMAR, US
[71] CHART ENERGY & CHEMICALS, INC., US
[85] 2024-05-01
[86] 2022-11-01 (PCT/US2022/048526)
[87] (WO2023/081125)
[30] US (63/274,652) 2021-11-02

[21] **3,237,020**
[13] A1

[51] **Int.Cl. C07D 243/36 (2006.01)**
[25] EN
[54] **BICYCLIC COMPOUND AND APPLICATION THEREOF**
[54] **COMPOSE BICYCLIQUE ET SON APPLICATION**
[72] YANG, RONGWEN, CN
[72] SUN, YUN, CN
[72] ZHANG, JIAN, CN
[72] YI, XUEGANG, CN
[72] MA, TENG, CN
[72] WANG, YU, CN
[72] WANG, PINGPING, CN
[72] DING, LIEMING, CN
[72] LAN, HONG, CN
[72] WANG, JIABING, CN
[71] BETTA PHARMACEUTICALS CO., LTD, CN
[85] 2024-05-01
[86] 2022-11-03 (PCT/CN2022/129643)
[87] (WO2023/078369)
[30] CN (PCT/CN2021/128239) 2021-11-02
[30] CN (PCT/CN2021/138668) 2021-12-16

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[21] **3,237,021**
[13] A1

[51] **Int.Cl. A61J 1/20 (2006.01) A61J 3/00 (2006.01)**
[25] EN
[54] **COMPOUNDING SYSTEM**
[54] **SYSTEME DE MELANGE**
[72] BOSSCHER, KASPER, NL
[72] KLUSKENS, LUC PETER
ELEONORE MARIE, NL
[71] THE COMPOUNDING COMPANY
B.V., NL
[85] 2024-05-01
[86] 2022-10-31 (PCT/NL2022/050608)
[87] (WO2023/075600)
[30] NL (2029580) 2021-11-01
[30] NL (2031054) 2022-02-23

[21] **3,237,022**
[13] A1

[51] **Int.Cl. B23K 26/14 (2014.01) B23K 26/38 (2014.01)**
[25] EN
[54] **MIXING NOZZLE FOR A LASER PROCESSING SYSTEM**
[54] **BUSE DE MELANGE POUR UN SYSTEME DE TRAITEMENT AU LASER**
[72] WOODS, KENNETH J., US
[72] MELIUS, BRENDA, US
[72] HIRANO, TAKAYUKI, US
[72] CONROY, RYAN, US
[72] WHITE, HENRY, US
[71] HYPER THERM, INC., US
[71] MC MACHINERY SYSTEMS, INC., US
[85] 2024-04-26
[86] 2022-11-08 (PCT/US2022/049312)
[87] (WO2023/081525)
[30] US (63/276,792) 2021-11-08
[30] US (63/401,224) 2022-08-26

[21] **3,237,023**
[13] A1

[51] **Int.Cl. B60L 53/31 (2019.01) E04H 1/12 (2006.01) H02G 3/04 (2006.01)**
[25] EN
[54] **OVERHEAD POWER DISTRIBUTION SYSTEMS AND METHODS FOR MODULAR EXPANDABLE OUTDOOR BUSWAY**
[54] **SYSTEMES ET PROCEDES DE DERIVATION DE PUISSANCE AERIENS POUR BARRE BLINDEE EXTERIEURE EXTENSIBLE MODULAIRE**
[72] WASHBURN, JAMES, US
[72] THULIN, ANDERS, US
[72] RUSCH, BRIAN J., US
[72] BROWN, ALLANAH, CA
[72] DOMBOWSKY, LOUIS, CA
[72] DOMBOWSKY, BEN, CA
[72] DOMBOWSKY, MICHAEL, CA
[72] RILEY, JOHN, US
[71] SIEMENS INDUSTRY, INC., US
[71] NEXII BUILDING SOLUTIONS INC., CA
[85] 2024-05-01
[86] 2022-09-01 (PCT/US2022/042344)
[87] (WO2023/080949)
[30] US (63/263,492) 2021-11-03
[30] US (63/293,461) 2021-12-23

[21] **3,237,025**
[13] A1

[51] **Int.Cl. E06B 5/00 (2006.01) E06B 7/28 (2006.01) B60J 5/00 (2006.01) E06B 5/10 (2006.01) E06B 5/11 (2006.01)**
[25] EN
[54] **DOOR ASSEMBLY WITH RECHARGEABLE ELECTRICAL POWER SUPPLY FOR INTEGRATED ELECTRIC DEVICES AND METHODS THEREOF**
[54] **ENSEMBLE PORTE AVEC ALIMENTATION EN ENERGIE ELECTRIQUE RECHARGEABLE POUR DISPOSITIFS ELECTRIQUES INTEGRES ET PROCEDES ASSOCIES**
[72] SIVASANKARAN, SATISHKUMAR, US
[72] BODURKA, ALEX, US
[72] ANDALIBI-ABADAN, NAVID, US
[71] MASONITE CORPORATION, US
[85] 2024-04-29
[86] 2022-11-07 (PCT/US2022/049152)
[87] (WO2023/081475)
[30] US (63/276,060) 2021-11-05

[21] **3,237,027**
[13] A1

[51] **Int.Cl. A61K 38/47 (2006.01) C12N 9/24 (2006.01)**
[25] EN
[54] **DAS181 VARIANT COMPOSITIONS**
[54] **COMPOSITIONS DE VARIANTS DE DAS181**
[72] WANG, GEORGE, US
[72] HAWLEY, STEPHEN, US
[72] LI, TIEJUN, US
[71] ANSUN BIOPHARMA INC., US
[85] 2024-04-29
[86] 2022-11-01 (PCT/US2022/079087)
[87] (WO2023/081660)
[30] US (63/263,441) 2021-11-02

[21] **3,237,029**
[13] A1

[51] **Int.Cl. B66C 13/06 (2006.01) B66C 23/00 (2006.01)**
[25] EN
[54] **METHOD TO OPTIMIZE AN ANTI-SWAY FUNCTION**
[54] **PROCEDE D'OPTIMISATION D'UNE FONCTION ANTI-BALANCEMENT**
[72] BLONDEL, CHARLES, FR
[72] CARVALHO, JEAN-FRANCOIS, FR
[71] SCHNEIDER ELECTRIC INDUSTRIES SAS, FR
[85] 2024-04-30
[86] 2022-10-26 (PCT/EP2022/079896)
[87] (WO2023/099086)
[30] EP (21306674.9) 2021-12-01

[21] **3,237,030**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4162 (2006.01) A61P 35/00 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **HETEROBIFUNCTIONAL MOLECULES AS TEAD INHIBITORS**
[54] **MOLECULES HETEROBIFONCTIONNELS UTILISEES EN TANT QU'INHIBITEURS DE TEAD**
[72] HEINRICH, TIMO, DE
[72] GEHRTZ, PAUL, DE
[71] MERCK PATENT GMBH, DE
[85] 2024-04-30
[86] 2022-10-31 (PCT/EP2022/080318)
[87] (WO2023/078813)
[30] EP (21205991.9) 2021-11-02

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[21] **3,237,032**
[13] A1

[51] **Int.Cl. H01M 8/04298 (2016.01) H01M 8/04313 (2016.01) H01M 8/04537 (2016.01) H01M 8/04858 (2016.01) H01M 8/04992 (2016.01) H01M 8/249 (2016.01) H01M 16/00 (2006.01)**

[25] EN

[54] **METHOD FOR DIAGNOSING A FUEL CELL SYSTEM, SYSTEM CONTROL DEVICE FOR IMPLEMENTING SUCH A METHOD, AND FUEL CELL SYSTEM INCLUDING SUCH A SYSTEM CONTROL DEVICE**

[54] **PROCEDE DE DIAGNOSTIC D'UN SYSTEME DE PILE A COMBUSTIBLE, DISPOSITIF DE COMMANDE DE SYSTEME POUR LA MISE EN OEUVRE D'UN TEL PROCEDE ET SYSTEME DE PILE A COMBUSTIBLE COMPRENANT UN TEL DISPOSITIF DE COMMANDE DE SYSTEME**

[72] BOOG, MANUEL, DE
[72] KOSER, THOMAS, DE
[72] BAR, JULIAN NICOLAAS, DE
[71] ROLLS-ROYCE SOLUTIONS GMBH, DE

[85] 2024-04-30
[86] 2022-11-07 (PCT/EP2022/081023)
[87] (WO2023/083764)
[30] DE (10 2021 212 618.9) 2021-11-09

[21] **3,237,033**
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61K 31/713 (2006.01) A61P 25/04 (2006.01) A61P 25/06 (2006.01) C12N 15/00 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHODS OF TREATING HEADACHES AND MIGRAINES WITH SODIUM VOLTAGE-GATED CHANNEL ALPHA SUBUNIT 11 (SCN11A) INHIBITORS**

[54] **METHODES DE TRAITEMENT DE MAUX DE TETE ET DE MIGRAINES AVEC DES INHIBITEURS DE SOUS-UNITE 11 DE CANAL SODIQUE VOLTAGE-DEPENDANT (SCN11A)**

[72] PRAVEEN, KAVITA, US
[72] COPPOLA, GIOVANNI, US
[72] BARAS, ARIS, US
[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2024-04-30
[86] 2022-11-21 (PCT/US2022/080208)
[87] (WO2023/092112)
[30] US (63/281,640) 2021-11-20

[21] **3,237,034**
[13] A1

[51] **Int.Cl. C12N 15/117 (2010.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **SPHERICAL NUCLEIC ACIDS FOR CGAS-STING AND STAT3 PATHWAY MODULATION FOR THE IMMUNOTHERAPEUTIC TREATMENT OF CANCER**

[54] **ACIDES NUCLEIQUES SPHERIQUES POUR LA MODULATION DE LA VOIE CGAZ ET STAT3 POUR LE TRAITEMENT IMMUNOTHERAPEUTIQUE DU CANCER**

[72] STEGH, ALEXANDER H., US
[72] MIRKIN, CHAD A., US
[72] MAHAJAN, AKANKSHA SANJAY, US

[72] TEPLENSKY, MICHELLE HOPE, US
[72] PARK, JUNGSOO, US
[72] VASHER, MATTHEW KUO, US
[72] SINEGRA, ANDREW JOSEPH, US
[71] NORTHWESTERN UNIVERSITY, US

[85] 2024-04-30
[86] 2022-11-17 (PCT/US2022/080086)
[87] (WO2023/092040)
[30] US (63/280,499) 2021-11-17

[21] **3,237,035**
[13] A1

[51] **Int.Cl. A61M 1/36 (2006.01) A61B 5/024 (2006.01) A61B 5/11 (2006.01)**

[25] EN

[54] **WETNESS DETECTOR WITH INTEGRATED INERTIAL MEASUREMENT UNIT CONFIGURED FOR USE IN A DIALYSIS SYSTEM**

[54] **DETECTEUR D'HUMIDITE AVEC UNITE DE MESURE INERTIELLE INTEGREE CONFIGUREE POUR ETRE UTILISEE DANS UN SYSTEME DE DIALYSE**

[72] WEAVER, COLIN, US
[72] CRNKOVICH, MARTIN, US
[72] YUDS, DAVID, US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US

[85] 2024-04-30
[86] 2022-10-20 (PCT/US2022/047247)
[87] (WO2023/091266)
[30] US (17/529,571) 2021-11-18

[21] **3,237,036**
[13] A1

[51] **Int.Cl. C12P 7/6445 (2022.01) C07C 67/08 (2006.01) C07C 69/52 (2006.01)**

[25] EN

[54] **TRIGLYCERIDES AND STRUCTURED LIPIDS FROM SHORT- AND MEDIUM-CHAIN FATTY ACIDS**

[54] **TRIGLYCERIDES ET LIPIDES STRUCTURES A PARTIR D'ACIDES GRAS A CHAINE COURTE ET MOYENNE**

[72] GRANDA, CESAR, US
[72] ZHANG, JUBO, US
[71] BIOVERITAS, LLC, US

[85] 2024-04-30
[86] 2022-11-01 (PCT/US2022/048606)
[87] (WO2023/076737)
[30] US (63/274,428) 2021-11-01
[30] US (63/288,371) 2021-12-10
[30] US (63/300,770) 2022-01-19

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[21] **3,237,037**
[13] A1

[51] **Int.Cl. A61K 31/436 (2006.01) A61K 38/16 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **MULTIPLE DOSING WITH VIRAL VECTORS**

[54] **DOSAGE MULTIPLE AVEC VECTEURS VIRAUX**

[72] KISHIMOTO, TAKASHI KEI, US

[71] CARTESIAN THERAPEUTICS, INC., US

[85] 2024-04-30

[86] 2022-11-14 (PCT/US2022/049777)

[87] (WO2023/086615)

[30] US (63/279,174) 2021-11-14

[30] US (63/300,785) 2022-01-19

[30] US (63/317,576) 2022-03-08

[30] US (63/338,672) 2022-05-05

[21] **3,237,038**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR THE MODULATION OF BETA CHAIN-MEDIATED IMMUNITY**

[54] **COMPOSITIONS ET METHODES DESTINEES A LA MODULATION DE L'IMMUNITE A MEDIATION PAR CHAINE BETA**

[72] GANESAN, RAJKUMAR, US

[72] GREWAL, IQBAL S., US

[72] SINGH, SANJAYA, US

[72] HANSEN, MICHAEL RIIS, US

[71] JANSSEN BIOTECH, INC., US

[85] 2024-04-30

[86] 2022-11-01 (PCT/US2022/079051)

[87] (WO2023/077155)

[30] US (63/274,430) 2021-11-01

[30] US (63/274,446) 2021-11-01

[30] US (63/274,449) 2021-11-01

[21] **3,237,039**
[13] A1

[51] **Int.Cl. H01M 10/44 (2006.01) H01M 10/61 (2014.01) H02J 7/00 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS AND DEVICES FOR MANAGING ENERGY STORAGE DEVICES AT OPERATING TEMPERATURE LIMITS**

[54] **SYSTEMES, PROCEDES ET DISPOSITIFS DE GESTION DE DISPOSITIFS DE STOCKAGE D'ENERGIE A DES LIMITES DE TEMPERATURE DE FONCTIONNEMENT**

[72] THOMASON, WILLIAM A., US

[71] DRAGONFLY ENERGY CORP., US

[85] 2024-04-30

[86] 2022-11-29 (PCT/US2022/051186)

[87] (WO2023/101941)

[30] US (17/539,022) 2021-11-30

[21] **3,237,041**
[13] A1

[51] **Int.Cl. A61K 51/10 (2006.01) A61P 35/00 (2006.01) C07K 16/26 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CANCER**

[54] **METHODES DE TRAITEMENT DU CANCER**

[72] BURAK, ERIC S., CA

[72] O'LEARY, JAMES, US

[72] RHODEN, JOHN, US

[71] FUSION PHARMACEUTICALS INC., CA

[85] 2024-04-30

[86] 2022-11-02 (PCT/US2022/079137)

[87] (WO2023/081698)

[30] US (63/274,802) 2021-11-02

[21] **3,237,042**
[13] A1

[51] **Int.Cl. B32B 3/06 (2006.01) H02G 15/18 (2006.01)**

[25] EN

[54] **FLEXIBLE COVER**

[54] **ENVELOPPE SOUPLE**

[72] KIM, DALE, US

[71] KIM, DALE, US

[85] 2024-04-30

[86] 2021-11-01 (PCT/US2021/057560)

[87] (WO2023/075800)

[21] **3,237,044**
[13] A1

[51] **Int.Cl. B01D 25/127 (2006.01) B01D 25/21 (2006.01) B01D 25/34 (2006.01)**

[25] EN

[54] **A HANDLING SYSTEM OF A SUBFRAME FORMING PART OF A FILTER PLATE FRAME ASSEMBLY IN A HORIZONTAL FILTER PRESS OF A TOWER TYPE, A METHOD OF PERFORMING MAINTENANCE OF SUCH SUBFRAME AND USE OF SUCH HANDLING SYSTEM**

[54] **SYSTEME DE MANIPULATION D'UN SOUS-CADRE FAISANT PARTIE D'UN ENSEMBLE CADRE DE PLAQUE DE FILTRATION DANS UN FILTRE-PRESSE HORIZONTAL DE TYPE TOUR, PROCEDE DE MISE EN UVRE DE MAINTENANCE D'UN TEL SOUS-CADRE ET UTILISATION D'UN TEL SYSTEME DE MANIPULATION**

[72] MUSTAKANGAS, MIRVA JOHANNA, FI

[72] ELORANTA, TEEMU PAAVALI, FI

[72] KAIPAINEN, JANNE ERIK ANTERO, FI

[72] JUVONEN, ISMO, FI

[71] METSO FINLAND OY, FI

[85] 2024-04-30

[86] 2022-11-09 (PCT/EP2022/081230)

[87] (WO2023/099138)

[30] FI (20216233) 2021-12-01

[21] **3,237,045**
[13] A1

[51] **Int.Cl. C10M 141/08 (2006.01)**

[25] EN

[54] **LUBRICATING OIL COMPOSITIONS**

[54] **COMPOSITIONS D'HUILE LUBRIFIANTE**

[72] CHASE, KEVIN J., US

[72] SKELTON, SHELBY A., US

[72] HURON, GEORGE D., US

[71] CHEVRON ORONITE COMPANY LLC, US

[85] 2024-04-30

[86] 2022-11-03 (PCT/IB2022/060589)

[87] (WO2023/079475)

[30] US (63/275,074) 2021-11-03

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[21] **3,237,048**
[13] A1

[51] **Int.Cl. A61K 8/25 (2006.01) A61K 8/64 (2006.01) A61K 8/87 (2006.01) A61Q 1/12 (2006.01)**
[25] EN
[54] **COMPOSITION FOR FOUNDATION IN SPRAY FORM**
[54] **COMPOSITION POUR FOND DE TEINT SE PRESENTANT SOUS FORME DE SPRAY**
[72] DURIGHEL, FABIO, IT
[71] QUADRA GROUP S.R.L., IT
[85] 2024-04-30
[86] 2022-11-08 (PCT/IB2022/060730)
[87] (WO2023/079536)
[30] IT (102021000028394) 2021-11-08

[21] **3,237,049**
[13] A1

[51] **Int.Cl. F23D 1/02 (2006.01)**
[25] EN
[54] **IRON FUEL COMBUSTION ARRANGEMENT**
[54] **AGENCEMENT DE COMBUSTION DE COMBUSTIBLE A BASE DE FER**
[72] SEIJGER, VINCENT JACOBUS THEODORUS, NL
[72] HOUTAPPELS, JEROEN GABRIEL FRANCISCUS, NL
[72] DERKSEN, MARCO ANTON FREDERIK, NL
[71] RENEWABLE IRON FUEL TECHNOLOGY B.V., NL
[85] 2024-04-30
[86] 2022-11-08 (PCT/NL2022/050631)
[87] (WO2023/080789)
[30] NL (2029663) 2021-11-08

[21] **3,237,051**
[13] A1

[51] **Int.Cl. H04R 25/00 (2006.01) A61B 5/12 (2006.01)**
[25] EN
[54] **HEARING CORRECTION SYSTEM**
[54] **SYSTEME DE CORRECTION AUDITIVE**
[72] BOHMER, BERNT, SE
[71] MELISONO AB, SE
[85] 2024-04-30
[86] 2022-11-09 (PCT/SE2022/051044)
[87] (WO2023/086000)
[30] SE (2151378-3) 2021-11-10

[21] **3,237,056**
[13] A1

[51] **Int.Cl. B62D 55/088 (2006.01)**
[25] EN
[54] **DEFLECTOR ARRANGEMENT FOR A TRACKED VEHICLE**
[54] **AGENCEMENT DE DEFLECTEUR POUR VEHICULE A CHENILLES**
[72] BODIN, ANDERS, SE
[72] WESTMAN, GORAN, SE
[72] WIBERG, ULF, SE
[72] CHRISTENSEN, ASSAR, SE
[72] VESTIN, ANDERS, SE
[71] BAE SYSTEMS HAGGLUNDS AKTIEBOLAG, SE
[85] 2024-04-30
[86] 2022-11-11 (PCT/SE2022/051057)
[87] (WO2023/121529)
[30] SE (2151557-2) 2021-12-20

[21] **3,237,057**
[13] A1

[51] **Int.Cl. A23G 1/44 (2006.01) A23L 11/50 (2021.01) A23G 1/48 (2006.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01)**
[25] EN
[54] **A CHOCOLATE PRODUCT COMPRISING A MILK ANALOGUE PRODUCT**
[54] **PRODUIT DE CHOCOLAT COMPRENANT UN PRODUIT ANALOGUE DE LAIT**
[72] WOOSTER, TIMOTHY JAMES, CH
[72] CELIGUETA TORRES, ISABEL, GB
[72] KAMMERHOFER, JANA CHRISTINA, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-05-02
[86] 2022-11-15 (PCT/EP2022/081983)
[87] (WO2023/084113)
[30] EP (21208244.0) 2021-11-15
[30] EP (21215318.3) 2021-12-16

[21] **3,237,063**
[13] A1

[51] **Int.Cl. C07D 209/16 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 15/52 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **METHODS FOR THE PRODUCTION OF TRYPTOPHANS, TRYPTAMINES, INTERMEDIATES, SIDE PRODUCTS AND DERIVATIVES**
[54] **PROCEDES DE PRODUCTION DE TRYPTOPHANES, DE TRYPTAMINES, D'INTERMEDIAIRES, DE PRODUITS SECONDAIRES ET DE DERIVES**
[72] JONES, JOHN ANDREW, US
[72] GIBBONS, WILLIAM JOHNATHAN JR., US
[72] FLOWER, JESSICA, US
[72] ADAMS, ALEXANDRA, US
[71] MIAMI UNIVERSITY, US
[85] 2024-05-01
[86] 2022-11-04 (PCT/US2022/079321)
[87] (WO2023/081837)
[30] US (63/263,616) 2021-11-05
[30] US (63/263,623) 2021-11-05

Demandes PCT entrant en phase nationale

[21] **3,237,066**
[13] A1

[51] **Int.Cl. D21H 19/02 (2006.01) D21H 19/08 (2006.01) D21H 19/82 (2006.01) D21H 19/84 (2006.01) D21H 27/10 (2006.01)**

[25] EN

[54] **BARRIER-COATED CELLULOSE-BASED SUBSTRATE FOR LAMINATED PACKAGING MATERIAL**

[54] **SUBSTRAT A BASE DE CELLULOSE REVETU D'UNE BARRIERE POUR MATERIAU D'EMBALLAGE STRATIFIE**

[72] NYMAN, ULF, SE
[72] MARKBO, OLIVIA, SE
[72] ALDEN, MATS, SE
[72] KRIECHBAUM, KONSTANTIN, SE
[72] DAMASIO, RENATO AUGUSTO PEREIRA, SE
[72] DE OLIVEIRA CAMPOS, SERGIO EDUARDO, SE
[72] BATISTA, RICARDO, SE
[72] HORCHULHAK, ALLAN FRANCISCO, SE
[71] TETRA LAVAL HOLDINGS & FINANCE S.A., CH
[85] 2024-05-02
[86] 2022-11-15 (PCT/EP2022/082024)
[87] (WO2023/084121)
[30] EP (21208172.3) 2021-11-15

[21] **3,237,068**
[13] A1

[51] **Int.Cl. G06F 3/048 (2013.01) H04W 4/18 (2009.01) G06Q 30/02 (2023.01) G06V 20/50 (2022.01) G06V 40/10 (2022.01) H04W 4/021 (2018.01) H04W 4/80 (2018.01)**

[25] EN

[54] **TABLETOP DISPLAY DEVICE FOR ADVERTISING INFORMATION WITH WIRELESS CHARGING SUPPORT**

[54] **DISPOSITIF D'AFFICHAGE DE TABLE POUR INFORMATIONS PUBLICITAIRES AVEC SUPPORT DE CHARGE SANS FIL**

[72] LANE, ASHLEY MICHAEL JAMES, AE
[71] TOPOLO TECHNOLOGY INC., US
[85] 2024-05-02
[86] 2022-11-01 (PCT/US2022/079009)
[87] (WO2023/081623)
[30] US (63/263,579) 2021-11-05

[21] **3,237,070**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**

[25] EN

[54] **METHODS FOR SCREENING FOR, OR DIAGNOSIS OF, ENDOMETRIOSIS AND METHODS OF PREPARING CELLS THEREFOR**

[54] **PROCEDES DE CRIBLAGE OU DE DIAGNOSTIC DE L'ENDOMETRIOSE ET PROCEDES DE PREPARATION DE CELLULES ASSOCIES**

[72] GOLDMAN, DOROTHEE, US
[71] DIAGNOSTRIX AS, NO
[85] 2024-05-02
[86] 2022-11-09 (PCT/EP2022/081362)
[87] (WO2023/083911)
[30] US (63/277,342) 2021-11-09

[21] **3,237,072**
[13] A1

[51] **Int.Cl. G06Q 10/10 (2023.01) G06Q 50/00 (2024.01) G06F 16/901 (2019.01) H04L 67/306 (2022.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR USING GRAPH THEORY TO RANK CHARACTERISTICS**

[54] **SYSTEME ET PROCEDE D'UTILISATION DE LA THEORIE DES GRAPHES POUR CLASSER DES CARACTERISTIQUES**

[72] COUTINHO, ROBERTO, BR
[71] ADP, INC., US
[85] 2024-05-02
[86] 2022-11-09 (PCT/US2022/079526)
[87] (WO2023/086809)
[30] US (17/454,182) 2021-11-09

[21] **3,237,073**
[13] A1

[51] **Int.Cl. E21B 1/26 (2006.01) E21B 4/02 (2006.01) E21B 17/042 (2006.01) E21B 17/18 (2006.01) E21B 21/12 (2006.01) E21B 21/14 (2006.01)**

[25] EN

[54] **DRILL STRING AND COMPONENTS THEREFOR**

[54] **COLONNE DE FORAGE ET COMPOSANTS DE CELLE-CI**

[72] WESTCOTT, TIMOTHY DANIEL, AU
[71] TRI-TUBE DRILLING SYSTEMS PTY LTD, AU
[85] 2024-04-29
[86] 2022-10-03 (PCT/AU2022/051176)
[87] (WO2023/070145)
[30] AU (2021903466) 2021-10-29

[21] **3,237,074**
[13] A1

[51] **Int.Cl. A01K 11/00 (2006.01) A01K 29/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETERMINING MOVEMENT OR LOCATION OF ANIMAL**

[54] **SYSTEMES ET PROCEDES PERMETTANT DE DETERMINER LE MOUVEMENT OU L'EMPLACEMENT D'UN ANIMAL**

[72] WERNIMONT, SUSAN, US
[72] VONDRAN, JODI, US
[72] THOMPSON, ROBIN, GB
[71] HILL'S PET NUTRITION, INC., US
[85] 2024-05-02
[86] 2022-11-08 (PCT/US2022/049209)
[87] (WO2023/086315)
[30] US (63/278,240) 2021-11-11
[30] US (63/278,250) 2021-11-11
[30] US (63/278,293) 2021-11-11

[21] **3,237,075**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 15/00 (2018.01) G16H 40/63 (2018.01) G16H 50/30 (2018.01) A61B 5/145 (2006.01) C12Q 1/00 (2006.01)**

[25] EN

[54] **SYSTEMS, DEVICES, AND METHODS FOR ANALYTE MONITORING**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE SURVEILLANCE D'ANALYTE**

[72] DUNN, TIMOTHY C., US
[71] ABBOTT DIABETES CARE INC., US
[85] 2024-05-02
[86] 2022-11-14 (PCT/US2022/049824)
[87] (WO2023/086632)
[30] US (63/279,509) 2021-11-15

PCT Applications Entering the National Phase

[21] **3,237,076**
[13] A1

[51] **Int.Cl. D21H 19/02 (2006.01) D21H 19/08 (2006.01) D21H 19/82 (2006.01) D21H 19/84 (2006.01) D21H 27/10 (2006.01)**

[25] EN

[54] **LAMINATED PACKAGING MATERIAL AND PACKAGING CONTAINER COMPRISING A BARRIER-COATED CELLULOSE-BASED SUBSTRATE**

[54] **MATERIAU D'EMBALLAGE STRATIFIE ET RECIPIENT D'EMBALLAGE COMPRENANT UN SUBSTRAT A BASE DE CELLULOSE REVETU D'UNE BARRIERE**

[72] NYMAN, ULF, SE
[72] MARKBO, OLIVIA, SE
[72] ALDEN, MATS, SE
[72] KRIECHBAUM, KONSTANTIN, SE
[72] DAMASIO, RENATO AUGUSTO PEREIRA, SE
[72] DE OLIVEIRA CAMPOS, SERGIO EDUARDO, SE
[72] BATISTA, RICARDO, SE
[72] HORCHULHAK, ALLAN FRANCISCO, SE
[71] TETRA LAVAL HOLDINGS & FINANCE S.A., CH
[85] 2024-05-02
[86] 2022-11-15 (PCT/EP2022/082026)
[87] (WO2023/084122)
[30] EP (21208175.6) 2021-11-15

[21] **3,237,078**
[13] A1

[51] **Int.Cl. B05C 17/005 (2006.01)**

[25] EN

[54] **SAUSAGE PACKAGE DISPENSING SYSTEM, DEVICE AND METHOD**

[54] **SYSTEME, DISPOSITIF ET PROCEDE DE DISTRIBUTION D'EMBALLAGE DE SAUCISSES**

[72] LEE, GEORGE L., US
[71] RED DEVIL INC., US
[85] 2024-04-26
[86] 2022-11-11 (PCT/US2022/079685)
[87] (WO2023/091877)
[30] US (17/531,113) 2021-11-19

[21] **3,237,080**
[13] A1

[51] **Int.Cl. H01Q 1/08 (2006.01) H01Q 1/28 (2006.01) H01Q 1/44 (2006.01) H01Q 3/26 (2006.01) H01Q 9/16 (2006.01) H01Q 21/24 (2006.01)**

[25] EN

[54] **SATELLITE PLATFORM AND METHOD FOR RECONFIGURING THE ELECTROMAGNETIC BEAM OF SUCH A SATELLITE PLATFORM**

[54] **PLATEFORME SATELLITE ET PROCEDE DE RECONFIGURATION DU FAISCEAU ELECTROMAGNETIQUE D'UNE TELLE PLATEFORME SATELLITE**

[72] LEGAY, HERVE, FR
[72] TUBAU, SEGOLENE, FR
[71] THALES, FR
[85] 2024-05-02
[86] 2022-10-25 (PCT/EP2022/079794)
[87] (WO2023/078736)
[30] FR (FR2111690) 2021-11-04

[21] **3,237,081**
[13] A1

[51] **Int.Cl. A61F 9/009 (2006.01) A61F 9/008 (2006.01)**

[25] EN

[54] **DOCKING AN EYE FOR OPHTHALMIC LASER TREATMENT**

[54] **FIXATION D'UN OEIL POUR TRAITEMENT LASER OPHTALMIQUE**

[72] LORNER, JOHANNES, DE
[72] RIEDEL, PETER, DE
[72] SCHMID, STEFAN, DE
[72] VETTER, ANDREAS, DE
[71] ALCON INC., CH
[85] 2024-05-02
[86] 2023-04-14 (PCT/IB2023/053854)
[87] (WO2023/203455)
[30] US (63/363,322) 2022-04-21

[21] **3,237,082**
[13] A1

[51] **Int.Cl. B28B 1/00 (2006.01) B33Y 10/00 (2015.01) B28B 23/02 (2006.01) E04B 1/16 (2006.01) E04C 5/06 (2006.01) E04C 5/16 (2006.01) E04G 21/04 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING A MODULE OF A BUILDING BY MEANS OF 3D CONCRETE PRINTING**

[54] **PROCEDE DE FABRICATION D'UN MODULE DE CONSTRUCTION A L'AIDE D'UNE IMPRESSION DE BETON EN 3D**

[72] HENDRIKS, LAMBERTUS NICOLAAS, NL
[71] CYBE CONSTRUCTION BV, NL
[85] 2024-05-02
[86] 2022-07-31 (PCT/NL2022/050454)
[87] (WO2023/014219)
[30] NL (2028922) 2021-08-04

[21] **3,237,085**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/10 (2006.01) C12N 15/55 (2006.01) C12P 19/30 (2006.01)**

[25] EN

[54] **ENDONUCLEASES THAT SELECTIVELY CLEAVE SINGLE-STRANDED NUCLEIC ACIDS AND USES THEREOF**

[54] **ENDONUCLEASES CLIVANT SELECTIVEMENT DES ACIDES NUCLEIQUES SIMPLE BRIN ET LEURS UTILISATIONS**

[72] VEYRIER, FREDERIC, CA
[72] CHENAL, MARTIN, CA
[71] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA
[85] 2024-05-02
[86] 2022-11-11 (PCT/CA2022/051668)
[87] (WO2023/082011)
[30] US (63/263,896) 2021-11-11

Demandes PCT entrant en phase nationale

[21] **3,237,088**
[13] A1

[51] **Int.Cl. H04B 5/00 (2024.01) H04W 72/04 (2023.01) H04W 88/08 (2009.01)**

[25] EN

[54] **DYNAMIC FREQUENCY ALLOCATION METHOD FOR BASE STATION, SHELF LABEL SYSTEM AND COMPUTER DEVICE**

[54] **PROCEDE D'ATTRIBUTION DYNAMIQUE D'UNE FREQUENCE A UNE STATION DE BASE, ET SYSTEME D'ETIQUETTE DE PRIX ET DISPOSITIF INFORMATIQUE**

[72] LIANG, MIN, CN
[72] JIANG, QI, CN
[72] JI, YAPING, CN
[71] HANSHOW TECHNOLOGY CO., LTD., CN
[85] 2024-05-02
[86] 2023-04-27 (PCT/CN2023/091055)
[87] (WO2023/216898)
[30] CN (202210496841.0) 2022-05-09

[21] **3,237,090**
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/12 (2006.01)**

[25] EN

[54] **HUMAN BROADLY CROSSREACTIVE INFLUENZA MONOCLONAL ANTIBODIES AND METHODS OF USE THEREOF**

[54] **ANTICORPS MONOCLONAUX HUMAINS CONTRE LA GRIPPE LARGEMENT REACTIFS ET LEURS PROCEDES D'UTILISATION**

[72] MARASCO, WAYNE A., US
[72] RAMSTEDT, HANS URBAN, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[71] ABVIRO LLC, US
[85] 2024-05-02
[86] 2022-11-07 (PCT/US2022/049142)
[87] (WO2023/081471)
[30] US (63/276,374) 2021-11-05

[21] **3,237,096**
[13] A1

[51] **Int.Cl. H01C 7/12 (2006.01) H01H 37/76 (2006.01) H01H 73/04 (2006.01) H01T 2/02 (2006.01) H01T 4/14 (2006.01) H01H 9/32 (2006.01) H01H 9/46 (2006.01) H01H 85/44 (2006.01) H01T 1/02 (2006.01) H01T 1/14 (2006.01)**

[25] EN

[54] **SURGE ARRESTER INCLUDING A DISCONNECTOR AND RELATED EXTINGUISHING/DEIONIZATION CHAMBER**

[54] **PARASURTENSEUR COMPRENT UN SECTIONNEUR ET CHAMBRE D'EXTINCTION / DE DEIONISATION ASSOCIEE**

[72] D'IPPOLITO, GIANFRANCO, IT
[71] ZOTUP S.R.L., IT
[85] 2024-05-02
[86] 2022-10-25 (PCT/IB2022/060225)
[87] (WO2023/084346)
[30] IT (102021000028448) 2021-11-09

[21] **3,237,101**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 90/00 (2016.01) A61B 17/32 (2006.01)**

[25] EN

[54] **MEDICAL INSTRUMENT, IN PARTICULAR FOR PERCUTANEOUS SURGICAL/MEDICAL PROCEDURES**

[54] **INSTRUMENT MEDICAL, EN PARTICULIER POUR DES PROCEDURES CHIRURGICALES/MEDICALES PERCUTANEEES**

[72] MOUNGONDO, FABIAN, BE
[72] SCHUIND, FREDERIC, CH
[71] SPIRECUT SA, CH
[85] 2024-05-02
[86] 2022-11-01 (PCT/IB2022/060518)
[87] (WO2023/079439)
[30] EP (21206825.8) 2021-11-07

[21] **3,237,102**
[13] A1

[51] **Int.Cl. A61K 47/59 (2017.01) A61K 47/64 (2017.01) A61P 35/00 (2006.01)**

[25] EN

[54] **INTRACELLULAR DELIVERY COMPOSITIONS**

[54] **COMPOSITIONS POUR ADMINISTRATION INTRACELLULAIRE**

[72] SHILOVITZKY, ORIT, IL
[72] CHEN ZELTSBURG, LILACH, IL
[72] UZAN GUETA, ROZI RAVIT, IL
[72] LEWKOWICZ, AYALA, IL
[72] GOTTFRIED, YOSSIL, IL
[72] FAYGENBOIM-ORNAI, ROTEM, IL
[72] EYLON, BAT-HEN, IL
[72] FREILICH, SHAY, IL
[72] HAKIM, MOTTI, IL
[72] SAPIR, YAIR, IL
[72] MANDEL, ILANA, IL
[72] BEN-MOSHE, TEHILA, IL
[72] SHULMAN, AVIDOR, IL
[71] BIOND BIOLOGICS LTD., IL
[85] 2024-05-02
[86] 2022-11-03 (PCT/IL2022/051164)
[87] (WO2023/079553)
[30] US (63/275,049) 2021-11-03
[30] US (63/348,114) 2022-06-02

[21] **3,237,103**
[13] A1

[51] **Int.Cl. A01K 1/02 (2006.01) A45F 3/00 (2006.01) A45F 3/02 (2006.01) A45F 3/04 (2006.01)**

[25] EN

[54] **BACKPACK FOR CARRYING ANIMALS**

[54] **SAC A DOS DESTINE A TRANSPORTER DES ANIMAUX**

[72] REISBERG, BRYAN, US
[72] DUNN, SCOTT, US
[72] LEE, BRIAN, US
[71] LITTLE CHONK COMPANY, US
[85] 2024-05-02
[86] 2022-10-21 (PCT/US2022/047457)
[87] (WO2023/081027)
[30] US (63/275,526) 2021-11-04

PCT Applications Entering the National Phase

[21] **3,237,104**
[13] A1

[51] **Int.Cl. G03F 7/00 (2006.01)**
[25] EN
[54] **IMPRINTING PROCESS**
[54] **PROCEDE D'IMPRESSIO**
[72] TER MEULEN, JAN MATTHIJS, NL
[72] KIERKELS, JULES THEODORUS ANTONIUS, NL
[72] TITULAER, BRAM JOHANNES, NL
[71] MORPHOTONICS HOLDING B.V., NL
[85] 2024-05-02
[86] 2022-11-14 (PCT/EP2022/081817)
[87] (WO2023/084087)
[30] EP (21208282.0) 2021-11-15

[21] **3,237,105**
[13] A1

[51] **Int.Cl. H01M 10/04 (2006.01) H01M 50/107 (2021.01) H01M 50/167 (2021.01) H01M 50/533 (2021.01) H01M 50/538 (2021.01) H01M 50/586 (2021.01) H01M 50/593 (2021.01)**
[25] EN
[54] **ELECTRODE ASSEMBLY, BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **ENSEMBLE ELECTRODE, BATTERIE, ET BLOC-BATTERIE ET VEHICULE LES COMPRENANT**
[72] LEE, JAE-EUN, KR
[72] PARK, JONG-SIK, KR
[72] KIM, SANG-YEOL, KR
[72] LEE, JE-JUN, KR
[72] KIM, HAK-KYUN, KR
[72] LIM, JAE-WON, KR
[72] CHOE, YU-SUNG, KR
[72] LEE, BYOUNG-GU, KR
[72] RYU, DUK-HYUN, KR
[72] LEE, KWAN-HEE, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-02
[86] 2022-07-19 (PCT/KR2022/010563)
[87] (WO2023/090575)
[30] KR (10-2021-0160823) 2021-11-19

[21] **3,237,106**
[13] A1

[51] **Int.Cl. G02B 1/04 (2006.01)**
[25] EN
[54] **SUSTAINED RELEASE OF OLEIC ACID FROM CONTACT LENSES**
[54] **LIBERATION PROLONGEE D'ACIDE OLEIQUE A PARTIR DE LENTILLES DE CONTACT**
[72] NI, JING, US
[72] LIU, RONGHUA, US
[71] COOPERVISION INTERNATIONAL LIMITED, GB
[85] 2024-05-02
[86] 2023-09-25 (PCT/GB2023/052477)
[87] (WO2024/069147)
[30] US (63/410,240) 2022-09-27

[21] **3,237,107**
[13] A1

[51] **Int.Cl. G02C 7/04 (2006.01)**
[25] EN
[54] **CONTACT LENSES AND METHODS RELATING THERETO**
[54] **LENTILLES DE CONTACT ET PROCEDES ASSOCIES**
[72] WEBBER, MARTIN, GB
[72] BRADLEY, ARTHUR, US
[72] ARUMUGAM, BASKAR, US
[72] HAMMOND, DAVID S, US
[72] CHAMBERLAIN, PAUL, US
[71] COOPERVISION INTERNATIONAL LIMITED, GB
[85] 2024-05-02
[86] 2022-12-15 (PCT/GB2022/053241)
[87] (WO2023/118813)
[30] US (63/291,993) 2021-12-21

[21] **3,237,108**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/10 (2006.01) A61M 29/00 (2006.01)**
[25] EN
[54] **SYSTEMS FOR DELIVERING DEVICES FOR REGULATING BLOOD PRESSURE ACROSS AN ATRIAL SEPTUM**
[54] **SYSTEMES PERMETTANT D'ADMINISTRATION DE DISPOSITIFS POUR REGULER LA PRESSION SANGUINE A TRAVERS UN SEPTUM AURICULAIRE**
[72] NAE, NIR, IL
[72] RABINER, MICHAEL, IL
[72] WHITING, JAMES S., US
[71] V-WAVE LTD., IL
[85] 2024-05-02
[86] 2022-11-03 (PCT/IB2022/060621)
[87] (WO2023/079498)
[30] US (63/263,535) 2021-11-04

[21] **3,237,109**
[13] A1

[51] **Int.Cl. A61B 34/30 (2016.01) A61B 34/32 (2016.01) A61C 1/08 (2006.01) A61B 34/20 (2016.01)**
[25] EN
[54] **A ROBOT SYSTEM**
[54] **SYSTEME DE ROBOT**
[72] MOZES, ALON, US
[72] ROYAN, AJAY GOPAL, US
[72] MITTENDORFF, ROBERT, US
[72] MOSES, DENNIS, US
[72] BEUCKELAERS, ERIK PAUL FLOR, US
[71] NEOCIS INC., US
[85] 2024-05-02
[86] 2022-11-07 (PCT/IB2022/060702)
[87] (WO2023/079530)
[30] US (63/276,986) 2021-11-08

Demandes PCT entrant en phase nationale

[21] **3,237,110**
[13] A1

[51] **Int.Cl. A23F 3/16 (2006.01) A23F 3/22 (2006.01) A23F 3/32 (2006.01) A23F 5/12 (2006.01) A23F 5/28 (2006.01) A23F 5/40 (2006.01) A23F 5/42 (2006.01) A47J 31/36 (2006.01) B65D 85/804 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING A COMPOSTABLE BEVERAGE CAPSULE**

[54] **PROCEDE DE FABRICATION D'UNE CAPSULE DE BOISSON COMPOSTABLE**

[72] SIEFARTH, CAROLINE, CH

[72] AFFOLTER, ROLAND, CH

[72] THILLA, TIM, DE

[72] GROSS, SILVIA, IT

[72] TURIONI, CHIARA, IT

[71] DELICA AG, CH

[85] 2024-05-02

[86] 2022-11-15 (PCT/EP2022/081956)

[87] (WO2023/088880)

[30] EP (21209384.3) 2021-11-19

[21] **3,237,111**
[13] A1

[51] **Int.Cl. B01D 35/06 (2006.01) B03C 5/02 (2006.01)**

[25] EN

[54] **FILTRATION DEVICE AND FILTRATION SYSTEM**

[54] **DISPOSITIF ET SYSTEME DE FILTRATION**

[72] OOMORI, KAZUKI, JP

[72] USUI, MASAYOSHI, JP

[72] TANI, KOICHI, JP

[72] KAMATANI, AKITO, JP

[71] MITSUBISHI KAKOKI KAISHA, LTD., JP

[85] 2024-05-02

[86] 2022-11-04 (PCT/JP2022/041153)

[87] (WO2023/080199)

[30] JP (PCT/JP2021/040863) 2021-11-05

[30] JP (2022-027233) 2022-02-24

[21] **3,237,113**
[13] A1

[51] **Int.Cl. A23K 20/158 (2016.01) A61K 47/12 (2006.01) A61K 47/44 (2017.01)**

[25] EN

[54] **SOFT CHEW**

[54] **PRODUIT A MACHER MOU**

[72] GRIFFIN, DAVID, US

[72] DAVIS, BINH, US

[72] RATKOWSKI, HUBERT, US

[71] NUTRAMAX LABORATORIES, INC., US

[85] 2024-05-02

[86] 2022-11-11 (PCT/US2022/049717)

[87] (WO2023/086578)

[30] US (63/278,132) 2021-11-11

[21] **3,237,114**
[13] A1

[51] **Int.Cl. A61K 31/415 (2006.01) A61K 31/422 (2006.01) A61K 31/53 (2006.01) A61P 35/00 (2006.01) C07D 231/12 (2006.01) C07D 401/14 (2006.01) C07D 413/04 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR CANCER TREATMENT**

[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT DU CANCER**

[72] LISTOVSKY, TAMAR, IL

[72] TOBI, DROR, IL

[71] ARIEL SCIENTIFIC INNOVATIONS LTD., IL

[85] 2024-05-02

[86] 2022-11-06 (PCT/IL2022/051173)

[87] (WO2023/079556)

[30] US (63/276,217) 2021-11-05

[30] US (63/306,245) 2022-02-03

[21] **3,237,115**
[13] A1

[51] **Int.Cl. G21B 1/05 (2006.01) G21B 1/17 (2006.01) H01J 37/32 (2006.01) H05H 1/16 (2006.01) H05H 1/46 (2006.01)**

[25] EN

[54] **CERAMIC FIBERS FOR SHIELDING IN VACUUM CHAMBER SYSTEMS AND METHODS FOR USING SAME**

[54] **FIBRES CERAMIQUES DE PROTECTION DANS DES SYSTEMES DE CHAMBRE A VIDE ET LEURS PROCEDES D'UTILISATION**

[72] CAMPBELL, BRIAN, US

[72] KIRTLEY, DAVID, US

[72] PANCOTTI, ANTHONY, US

[72] PIHL, CHRISTOPHER JAMES, US

[72] VOTROUBEK, GEORGE, US

[71] HELION ENERGY, INC., US

[85] 2024-05-02

[86] 2022-11-07 (PCT/US2022/079394)

[87] (WO2023/081882)

[30] US (63/276,300) 2021-11-05

[21] **3,237,116**
[13] A1

[51] **Int.Cl. B60L 58/18 (2019.01) H02M 7/49 (2007.01)**

[25] EN

[54] **A CIRCUIT MODULE FOR CONTROLLING A PLURALITY OF ENERGY CELL UNITS**

[54] **MODULE DE CIRCUIT POUR COMMANDER UNE PLURALITE D'UNITES DE CELLULES D'ENERGIE**

[72] BRAATHEN, WILLIAM, NO

[72] BJERKEDOK, JONATHAN EDVARD, NO

[71] HAGAL TECHNOLOGY AS, NO

[85] 2024-05-02

[86] 2022-10-26 (PCT/NO2022/050244)

[87] (WO2023/080793)

[30] NO (20211336) 2021-11-05

PCT Applications Entering the National Phase

[21] **3,237,118**
[13] A1

[51] **Int.Cl. A61K 8/04 (2006.01) A61K 8/34 (2006.01) A61K 8/365 (2006.01) A61K 8/37 (2006.01) A61K 8/46 (2006.01) A61K 8/99 (2017.01) A61P 17/04 (2006.01) A61P 17/06 (2006.01) A61P 17/08 (2006.01) A61P 17/10 (2006.01) A61P 29/00 (2006.01) A61Q 19/08 (2006.01)**

[25] EN

[54] **SKIN CARE COMPOSITION AND USES THEREOF**

[54] **COMPOSITION DE SOIN DE LA PEAU ET SES UTILISATIONS**

[72] GOMEZ MARTIN-AMBROSIO, LAURA, BE

[72] ROZAS BELMONTE, MIQUEL, BE

[72] ZORGANI, AMINE, BE

[72] PAETZOLD, BERNHARD, BE

[72] VERHEYEN, WILLY, BE

[71] S-BIOMEDIC NV, BE

[85] 2024-05-02

[86] 2023-01-12 (PCT/EP2023/050583)

[87] (WO2023/135186)

[30] EP (22151098.5) 2022-01-12

[21] **3,237,119**
[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01) C07D 401/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **COMPOUND HAVING BTK PROTEIN DEGRADATION ACTIVITY, AND MEDICAL USES THEREOF**

[54] **COMPOSE AYANT UNE ACTIVITE DE DEGRADATION DE LA PROTEINE BTK, ET UTILISATIONS MEDICALES ASSOCIEES**

[72] LEE, SONG HEE, KR

[72] RYU, JE HO, KR

[72] AHN, JUNG MIN, KR

[72] MOON, HEE JUNG, KR

[72] LEE, HO HYUN, KR

[72] JANG, MI YOUNG, KR

[72] YUN, WHEE SAHNG, KR

[72] KIM, YE EUN, KR

[72] YOO, SUN MI, KR

[72] LIM, YE SEUL, KR

[72] JEONG, NA RAE, KR

[72] KIM, SO HYUK, KR

[72] CHOI, AE RAN, KR

[72] KIM, HAN WOOL, KR

[71] UBIX THERAPEUTICS, INC., KR

[85] 2024-05-02

[86] 2022-11-04 (PCT/KR2022/017291)

[87] (WO2023/080732)

[30] KR (10-2021-0151162) 2021-11-05

[30] KR (10-2022-0034349) 2022-03-18

[21] **3,237,122**
[13] A1

[51] **Int.Cl. B26D 1/157 (2006.01) H01M 10/0587 (2010.01) H01M 50/538 (2021.01) B26D 5/08 (2006.01) B26D 7/08 (2006.01) H01M 10/04 (2006.01) H01M 10/42 (2006.01)**

[25] EN

[54] **ELECTRODE ASSEMBLY AND MANUFACTURING APPARATUS AND METHOD THEREOF, CYLINDRICAL BATTERY INCLUDING THE ELECTRODE ASSEMBLY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**

[54] **ENSEMBLE D'ELECTRODES, PROCEDE ET APPAREIL POUR LE FABRIQUER, BATTERIE CYLINDRIQUE COMPRENANT UN ENSEMBLE D'ELECTRODES, ET BLOC-BATTERIE ET VEHICULE COMPRENANT LA BATTERIE CYLINDRIQUE**

[72] CHUNG, JOO-YOUNG, KR

[72] KIM, JIN-GON, KR

[72] JUNG, SU-TAEK, KR

[72] KIM, TAE-JONG, KR

[72] LEE, BYEONG-KYU, KR

[71] LG ENERGY SOLUTION, LTD., KR

[85] 2024-05-02

[86] 2022-11-24 (PCT/KR2022/018772)

[87] (WO2023/096389)

[30] KR (10-2021-0163807) 2021-11-24

[30] KR (10-2022-0107707) 2022-08-26

[21] **3,237,123**
[13] A1

[51] **Int.Cl. A01G 9/14 (2006.01) A01G 9/24 (2006.01) H02S 20/30 (2014.01) H02S 40/22 (2014.01) H02S 40/40 (2014.01) H02S 40/44 (2014.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ON-DEMAND INSULATION BETWEEN LAYERS OF A DOUBLE-LAYERED WINDOW**

[54] **SYSTEME ET PROCEDE D'ISOLATION A LA DEMANDE ENTRE LES PAROIS D'UNE FENETRE A DOUBLE PAROI**

[72] PAUL, ALEXANDER, US

[71] PAUL, ALEXANDER, US

[85] 2024-05-02

[86] 2022-11-05 (PCT/US2022/079355)

[87] (WO2023/081864)

[30] US (17/520,678) 2021-11-07

[30] US (63/321,680) 2022-03-19

Demandes PCT entrant en phase nationale

[21] **3,237,126**
[13] A1

[51] **Int.Cl. B01J 23/745 (2006.01) B01D 53/50 (2006.01) B01D 53/52 (2006.01) B01D 53/56 (2006.01) B01D 53/62 (2006.01) B01D 53/86 (2006.01)**

[25] EN

[54] **PROCESS FOR DIRECT CONVERSION OF FLUE GAS IN LOW-CARBON FUELS AND IRON-BASED CATALYSTS TO CARRY OUT SAME**

[54] **PROCEDE DE CONVERSION DIRECTE DE GAZ DE COMBUSTIBLES A FAIBLE TENEUR EN CARBONE ET CATALYSEURS A BASE DE FER POUR LE METTRE EN ?UVRE**

[72] LAVOIE, JEAN-MICHEL, CA
[72] REGO DE VASCONCELOS, BRUNA, CA

[72] GONCALVES MACEDO DE MEDEIROS, FABIO, BR

[71] SOCPRA SCIENCES ET GENIE S.E.C., CA

[85] 2024-05-02
[86] 2022-11-07 (PCT/CA2022/051644)
[87] (WO2023/077243)
[30] US (63/263,592) 2021-11-05

[21] **3,237,127**
[13] A1

[51] **Int.Cl. A61K 36/81 (2006.01) A61K 36/896 (2006.01) A61P 15/12 (2006.01) A61P 19/10 (2006.01)**

[25] EN

[54] **WITHANIA SOMNIFERA AND ASPARAGUS RACEMOSUS IN TREATING POST-MENOPAUSAL CONDITIONS**

[54] **WITHANIA SOMNIFERA ET ASPARAGUS RACEMOSUS DANS LE TRAITEMENT D'ETATS POST-MENOPAUSIQUES**

[72] KALIDINDI, SANYASI R., US
[71] NATREON, INC., US

[85] 2024-05-02
[86] 2022-11-15 (PCT/US2022/049905)
[87] (WO2023/091390)
[30] US (63/280,356) 2021-11-17

[21] **3,237,128**
[13] A1

[51] **Int.Cl. H01M 50/124 (2021.01)**

[25] EN

[54] **SECONDARY BATTERY, AND BATTERY PACK AND VEHICLE COMPRISING SAME**

[54] **BATTERIE SECONDAIRE, ET BLOC-BATTERIE ET VEHICULE COMPRENANT CELLE-CI**

[72] WON, JIN HYEOK, KR
[72] RYU, DUK HYUN, KR

[71] LG ENERGY SOLUTION, LTD., KR

[85] 2024-05-02
[86] 2022-11-18 (PCT/KR2022/018320)
[87] (WO2023/090940)
[30] KR (10-2021-0160776) 2021-11-19

[21] **3,237,129**
[13] A1

[51] **Int.Cl. A61B 5/03 (2006.01) A61M 5/00 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **IN-LINE MEASUREMENT AND/OR DETECTION OF ANALYTES, CONTAMINANTS, AND PHYSICAL CHARACTERISTICS IN BODY FLUID MANAGEMENT SYSTEMS**

[54] **MESURE ET/OU DETECTION EN LIGNE D'ANALYTES, DE CONTAMINANTS ET DE CARACTERISTIQUES PHYSIQUES DANS DES SYSTEMES DE GESTION DE FLUIDES CORPORELS**

[72] MORSE, CAITLIN D.C., US
[72] MORSE, STEPHEN A., US

[71] BRAINSPACE, INC., US

[85] 2024-05-02
[86] 2022-11-03 (PCT/US2022/048818)
[87] (WO2023/081278)
[30] US (63/275,232) 2021-11-03
[30] US (63/315,910) 2022-03-02

[21] **3,237,130**
[13] A1

[51] **Int.Cl. F16B 37/04 (2006.01) F16B 39/282 (2006.01)**

[25] EN

[54] **MULTIPLE FASTENER RESTRAINER AND METHODS IMPLEMENTING THE SAME**

[54] **DISPOSITIF DE RETENUE DE MULTIPLES ELEMENTS DE FIXATION ET PROCEDES METTANT EN OEUVRE CELUI-CI**

[72] GOLDSTEIN, EDWARD, US

[71] ATLAS TUBE CONNECTIONS, LLC, US

[85] 2024-05-02
[86] 2022-11-09 (PCT/US2022/049377)
[87] (WO2023/086369)
[30] US (63/277,352) 2021-11-09

[21] **3,237,131**
[13] A1

[51] **Int.Cl. B60K 35/00 (2024.01) B64C 1/00 (2006.01)**

[25] EN

[54] **INFORMATION DISPLAY SYSTEM AND METHOD FOR ELECTRIC OR HYBRID AIRCRAFTS**

[54] **SYSTEME ET PROCEDE D'AFFICHAGE D'INFORMATIONS POUR AERONEFS ELECTRIQUES OU HYBRIDES**

[72] BOIRIN, STEPHANE PIERRE-JEAN, CH
[72] OSEN, KARL, CH

[72] DEMONT, SEBASTIEN, CH
[72] DANI, BASTIAN, CH

[71] H55 SA, CH

[85] 2024-05-02
[86] 2022-11-03 (PCT/IB2022/060613)
[87] (WO2023/079492)
[30] CH (CH070513/21) 2021-11-05

PCT Applications Entering the National Phase

[21] **3,237,132**
[13] A1

[51] **Int.Cl. H01M 10/04 (2006.01) H01M 50/167 (2021.01) H01M 50/179 (2021.01) H01M 50/186 (2021.01) H01M 50/193 (2021.01) H01M 50/198 (2021.01) H01M 50/342 (2021.01) H01M 50/538 (2021.01) H01M 50/559 (2021.01) H01M 50/567 (2021.01)**

[25] EN

[54] **RIVETING STRUCTURE FOR ELECTRODE TERMINAL, AND BATTERY CELL, BATTERY PACK, AND VEHICLE COMPRISING SAME**

[54] **STRUCTURE DE RIVETAGE POUR BORNE D'ELECTRODE, ET CELLULE DE BATTERIE, BLOC-BATTERIE ET VEHICULE LA COMPRENANT**

[72] WON, JIN HYEOK, KR
[72] RYU, DUK HYUN, KR
[72] LEE, BYOUNGGU, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-02
[86] 2022-07-18 (PCT/KR2022/010446)
[87] (WO2023/096062)
[30] KR (10-2021-0165315) 2021-11-26

[21] **3,237,133**
[13] A1

[51] **Int.Cl. H01M 50/213 (2021.01) H01M 50/249 (2021.01) H01M 50/505 (2021.01) H01M 50/519 (2021.01) H01M 50/526 (2021.01) H01M 50/581 (2021.01)**

[25] EN

[54] **BATTERY MODULE FOR ELECTRICALLY-DRIVEN AIRCRAFT**

[54] **MODULE DE BATTERIE POUR AERONEF A ENTRAINEMENT ELECTRIQUE**

[72] DEMONT, SEBASTIEN, CH
[72] BOIRIN, STEPHANE PIERRE-JEAN, CH
[72] FOURNIER, MICHAEL ROGER, CH
[72] BOSI, NICOLAS, CH
[71] H55 SA, CH
[85] 2024-05-02
[86] 2021-11-05 (PCT/IB2021/060260)
[87] (WO2023/079345)

[21] **3,237,134**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/145 (2006.01) A61P 31/16 (2006.01)**

[25] EN

[54] **MULTIVALENT INFLUENZA VACCINES COMPRISING RECOMBINANT HEMAGGLUTININ AND NEURAMINIDASE AND METHODS OF USING THE SAME**

[54] **VACCINS CONTRE LA GRIPPE MULTIVALENTS COMPRENANT DE L'HEMAGGLUTININE ET DE LA NEURAMINIDASE RECOMBINANTES ET LEURS METHODES D'UTILISATION**

[72] ALEFANTIS, TIMOTHY, US
[72] BARRO, MARIO, US
[72] BYERS, ANTHONY, US
[72] CORTES-GARCIA, GUADALUPE, US
[72] GILBERT, PHILIPPE-ALEXANDRE, US
[72] KLEANTHOUS, HAROLD, US
[72] NAIK, ARMAGHAN, US
[72] PUGACHEV, KONSTANTIN, US
[72] SRIDHAR, SARANYA, US
[72] VOGEL, THORSTEN, US
[72] WARREN, WILLIAM, US
[71] SANOFI PASTEUR INC., US
[85] 2024-05-02
[86] 2022-11-04 (PCT/US2022/079274)
[87] (WO2023/081798)
[30] US (63/276,284) 2021-11-05

[21] **3,237,136**
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01) G16H 30/20 (2018.01) G16H 30/40 (2018.01) G16H 50/20 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR GENERATING A CORRECTED PLANAR SCINTIGRAPHY IMAGE (CPSI)**

[54] **SYSTEMES ET PROCEDES DE GENERATION D'UNE IMAGE SCINTIGRAPHIQUE PLANE CORRIGEE (CPSI)**

[72] SCHMIDTLEIN, ROSS, US
[72] XU, YUSEHENG, US
[72] KROL, ANDRZEJ, US
[72] GIFFORD, HOWARD, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[71] MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES, US
[71] SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH, US
[85] 2024-05-02
[86] 2022-11-04 (PCT/US2022/049034)
[87] (WO2023/081408)
[30] US (63/276,504) 2021-11-05

[21] **3,237,137**
[13] A1

[51] **Int.Cl. C02F 1/28 (2006.01) C02F 1/00 (2006.01) C02F 1/52 (2006.01)**

[25] EN

[54] **METHOD FOR REMOVING DISSOLVED ORGANIC SUBSTANCES IN LIQUIDS WITH A SUPERFINE ADSORBENT AND AN AGENT FOR CARRYING OUT THE METHOD**

[54]

[72] GRABBE, ULRICH, CH
[72] FUNDNEIDER, THOMAS, CH
[71] MECANA AG, CH
[85] 2024-05-02
[86] 2022-11-28 (PCT/EP2022/083470)
[87] (WO2023/094656)
[30] DE (10 2021 131 310.4) 2021-11-29

Demandes PCT entrant en phase nationale

[21] **3,237,138**
[13] A1

[51] **Int.Cl. H04S 7/00 (2006.01)**
[25] EN
[54] **APPARATUS, METHOD OR COMPUTER PROGRAM FOR SYNTHESIZING A SPATIALLY EXTENDED SOUND SOURCE USING VARIANCE OR COVARIANCE DATA**

[54] **APPAREIL, PROCEDE OU PROGRAMME INFORMATIQUE POUR SYNTHETISER UNE SOURCE SONORE ETENDUE DANS L'ESPACE EN UTILISANT DES DONNEES DE VARIANCE OU DE COVARIANCE**

[72] WU, YUN-HAN, DE
[72] HERRE, JUERGEN, DE
[72] KOROTIAEV, MIKHAIL, DE
[72] GEIER, MATTHIAS, DE
[72] SCHWAER, SIMON, DE
[72] ADAMI, ALEXANDER, DE
[72] ANEMUELLER, CARLOTTA, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2024-05-02
[86] 2022-11-07 (PCT/EP2022/081000)
[87] (WO2023/083754)
[30] EP (21207298.7) 2021-11-09

[21] **3,237,139**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **HYBRID MULTIVALENT INFLUENZA VACCINES COMPRISING HEMAGGLUTININ AND NEURAMINIDASE AND METHODS OF USING THE SAME**

[54] **VACCINS CONTRE LA GRIPPE MULTIVALENTS HYBRIDES COMPRENANT DE L'HEMAGGLUTININE ET DE LA NEURAMINIDASE ET LEURS PROCEDES D'UTILISATION**

[72] ALEFANTIS, TIMOTHY, US
[72] BARRO, MARIO, US
[72] SRIDHAR, SARANYA, US
[72] VOGEL, THORSTEN, US
[72] WARREN, WILLIAM, US
[71] SANOFI, FR
[85] 2024-05-02
[86] 2022-11-04 (PCT/EP2022/080875)
[87] (WO2023/079113)
[30] US (63/276,247) 2021-11-05

[21] **3,237,140**
[13] A1

[51] **Int.Cl. A41C 1/02 (2006.01) A41C 1/00 (2006.01) A41C 3/00 (2006.01) A41D 27/02 (2006.01) D03D 15/56 (2021.01) A41C 3/12 (2006.01)**
[25] EN
[54] **CHEST BINDER**

[54] **CAMISOLE DE COMPRESSION POUR LA POITRINE**

[72] FREEMAN, CHLOE, US
[71] FOR THEM, INC., US
[85] 2024-05-02
[86] 2022-11-02 (PCT/US2022/048747)
[87] (WO2023/081238)
[30] US (63/276,434) 2021-11-05

[21] **3,237,141**
[13] A1

[51] **Int.Cl. E05B 65/52 (2006.01) E05B 81/14 (2014.01) B65F 1/16 (2006.01) E05C 3/24 (2006.01)**
[25] EN
[54] **LOCK, IN PARTICULAR RUBBISH BIN LOCK**

[54] **SERRURE, EN PARTICULIER SERRURE DE POUBELLE**

[72] MATUSCHEK, MANFRED, DE
[71] S. FRANZEN SOHNE GMBH, DE
[85] 2024-05-02
[86] 2022-11-22 (PCT/EP2022/082814)
[87] (WO2023/094380)
[30] DE (10 2021 130 660.4) 2021-11-23

[21] **3,237,142**
[13] A1

[51] **Int.Cl. A61K 47/50 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTITUMOR COMBINATIONS CONTAINING ANTI-CEACAM5 ANTIBODY-DRUG CONJUGATES AND ANTI-VEGFR-2 ANTIBODIES**

[54] **COMBINAISONS ANTITUMORALES CONTENANT DES CONJUGUES ANTICORPS-MEDICAMENT ANTI-CEACAM5 ET DES ANTICORPS ANTI-VEGFR-2**

[72] CHADJAA, MUSTAPHA, FR
[72] LACOSTE-BOURGEACQ, ANNE-SOPHIE, FR
[72] LE BAIL, NATHALIE, FR
[72] NICOLAZZI, CELINE, FR
[72] BENSFIA, SAMIRA, US
[71] SANOFI, FR
[71] ELI LILLY AND COMPANY, US
[85] 2024-05-02
[86] 2022-11-04 (PCT/EP2022/080776)
[87] (WO2023/079057)
[30] EP (21306552.7) 2021-11-05
[30] US (63/381,707) 2022-10-31

[21] **3,237,143**
[13] A1

[51] **Int.Cl. B05C 11/02 (2006.01) B22F 7/02 (2006.01) B29C 43/58 (2006.01) B65B 1/32 (2006.01) B65B 1/36 (2006.01) H01M 4/04 (2006.01) H01M 4/13 (2010.01)**
[25] EN
[54] **SENSOR SYSTEM FOR DRY POWDER ELECTRODE FORMATION AND METHODS OF USING THE SAME**

[54] **SYSTEME DE CAPTEUR POUR FORMATION D'ELECTRODE EN POUDRE SECHE ET SES PROCEDES D'UTILISATION**

[72] HACKFORT, THOMAS, DE
[72] GOTTSZKY, JORG, DE
[72] WOLTERS, KAY, DE
[71] MATTHEWS INTERNATIONAL CORPORATION, US
[85] 2024-05-02
[86] 2022-11-04 (PCT/US2022/048968)
[87] (WO2023/081363)
[30] US (63/275,863) 2021-11-04

PCT Applications Entering the National Phase

[21] **3,237,146**

[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K
39/395 (2006.01) A61P 19/02 (2006.01)
C07K 14/705 (2006.01) C07K 16/28
(2006.01)**

[25] EN

[54] **PHARMACEUTICAL
COMPOSITIONS OF HUMANIZED
ANTI-CD40 ANTIBODIES AND
USES THEREOF**

[54] **COMPOSITIONS
PHARMACEUTIQUES
D'ANTICORPS ANTI-CD40
HUMANISES ET LEURS
UTILISATIONS**

[72] PAOLINI, JOHN F., US

[72] KRANZ, JAMES, US

[71] KINIKSA PHARMACEUTICALS,
GMBH, CH

[85] 2024-05-02

[86] 2022-11-01 (PCT/US2022/079047)

[87] (WO2023/081641)

[30] US (63/276,381) 2021-11-05

[30] US (63/313,583) 2022-02-24

[21] **3,237,147**

[13] A1

[51] **Int.Cl. H04B 7/0413 (2017.01) H04B
7/06 (2006.01)**

[25] EN

[54] **ANTENNA CHANNEL SOUNDING
METHOD, APPARATUS, AND
STORAGE MEDIUM**

[54] **PROCEDE ET APPAREIL DE
DETECTION DE CANAL
D'ANTENNE, ET SUPPORT DE
STOCKAGE**

[72] YU, JIAN, CN

[72] RUAN, WEI, CN

[72] GAN, MING, CN

[71] HUAWEI TECHNOLOGIES CO.,
LTD., CN

[85] 2024-05-02

[86] 2022-10-28 (PCT/CN2022/128386)

[87] (WO2023/078182)

[30] CN (202111295867.0) 2021-11-03

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] 3,236,171 [13] A1	[21] 3,236,202 [13] A1	[21] 3,236,249 [13] A1
[25] EN [54] METHOD FOR ALTERING PLASMA RETENTION AND IMMUNOGENICITY OF ANTIGEN-BINDING MOLECULE [54] METHODE DE MODIFICATION DE LA RETENTION DU PLASMA ET DE L'IMMUNOGENICITE DE MOLECULE LIANT UN ANTIGENE [72] IGAWA, TOMOYUKI, JP [72] MAEDA, ATSUSHIKO, JP [72] HARAYA, KENTA, JP [72] IWAYANAGI, YUKI, JP [72] TACHIBANA, TATSUSHIKO, JP [72] MIMOTO, FUTA, JP [72] KURAMOCHI, TAICHI, JP [72] KATADA, HITOSHI, JP [72] KADONO, SHOJIRO, JP [71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP [22] 2012-03-30 [41] 2012-10-04 [62] 2,831,770 [30] JP (PCT/JP2011/001888) 2011-03-30 [30] JP (PCT/JP2011/072550) 2011-09-30 [30] JP (PCT/JP2012/054624) 2012-02-24	[25] EN [54] METHODS AND APPARATUS FOR CONDITIONING CELL POPULATIONS FOR CELL THERAPIES [54] PROCEDES ET APPAREIL POUR LE CONDITIONNEMENT DE POPULATIONS DE CELLULES POUR DES THERAPIES CELLULAIRES [72] COX, CHARLES S., US [72] GILL, BRIJESH S., US [72] AROOM, KEVIN, US [72] WENZEL, PAMELA, US [71] BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US [22] 2016-06-23 [41] 2016-12-29 [62] 2,990,231 [30] US (62/183,273) 2015-06-23	[51] Int.Cl. C07D 211/60 (2006.01) A61K 31/185 (2006.01) A61K 31/451 (2006.01) A61P 37/06 (2006.01) C07C 309/05 (2006.01) C07C 309/25 (2006.01) C07C 309/29 (2006.01) C07C 309/30 (2006.01) C07C 309/35 (2006.01) [25] EN [54] SALT FORMS OF A COMPLEMENT COMPONENT C5A RECEPTOR [54] FORMES SALINES D'UN RECEPTEUR DU COMPOSANT DU COMPLEMENT C5A [72] SINGH, RAJINDER, US [72] YAU, KWOK, US [72] ZENG, YIBIN, US [72] ZHANG, PENGLIE, US [72] LUI, REBECCA M., US [72] YANG, JU, US [72] ROTH, HOWARD S., US [71] CHEMOCENTRYX, INC., US [22] 2020-11-06 [41] 2021-05-14 [62] 3,155,950 [30] US (62/932,658) 2019-11-08
	[21] 3,236,214 [13] A1	
	[51] Int.Cl. A61K 31/4745 (2006.01) A61P 25/14 (2006.01) [25] EN [54] METHODS FOR THE TREATMENT OF ABNORMAL INVOLUNTARY MOVEMENT DISORDERS [54] METHODES DE TRAITEMENT DE TROUBLES DES MOUVEMENTS INVOLONTAIRES ANORMAUX [72] STAMLER, DAVID, US [72] HUANG, MICHAEL FANGCHING, US [71] AUSPEX PHARMACEUTICALS, INC., US [22] 2016-03-07 [41] 2016-09-15 [62] 2,978,006 [30] US (62/129,616) 2015-03-06 [30] US (62/175,112) 2015-06-12 [30] US (62/180,012) 2015-06-15	

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[21] **3,236,253**
[13] A1

[51] **Int.Cl. C07D 211/60 (2006.01) A61K 31/185 (2006.01) A61K 31/451 (2006.01) A61P 29/00 (2006.01) C07C 309/05 (2006.01) C07C 309/25 (2006.01) C07C 309/29 (2006.01) C07C 309/30 (2006.01) C07C 309/35 (2006.01)**

[25] EN
[54] **SALT FORMS OF A COMPLEMENT COMPONENT C5A RECEPTOR**

[54] **FORMES SALINES D'UN RECEPTEUR DU COMPOSANT DU COMPLEMENT C5A**

[72] SINGH, RAJINDER, US
[72] YAU, KWOK, US
[72] ZENG, YIBIN, US
[72] ZHANG, PENGLIE, US
[72] LUI, REBECCA M., US
[72] YANG, JU, US
[72] ROTH, HOWARD S., US
[71] CHEMOCENTRYX, INC., US
[22] 2020-11-06
[41] 2021-05-14
[62] 3,155,950
[30] US (62/932,658) 2019-11-08

[21] **3,236,256**
[13] A1

[25] EN
[54] **SALT FORMS OF A COMPLEMENT COMPONENT C5A RECEPTOR**

[54] SINGH, RAJINDER, US
[72] YAU, KWOK, US
[72] ZENG, YIBIN, US
[72] ZHANG, PENGLIE, US
[72] LUI, REBECCA M., US
[72] YANG, JU, US
[72] ROTH, HOWARD S., US
[71] CHEMOCENTRYX, INC., US
[22] 2020-11-06
[41] 2021-05-14
[62] 3,155,950
[30] US (62/932,658) 2019-11-08

[21] **3,236,258**
[13] A1

[25] EN
[54] **SALT FORMS OF A COMPLEMENT COMPONENT C5A RECEPTOR**

[54] **FORMES SALINES D'UN RECEPTEUR DU COMPOSANT DU COMPLEMENT C5A**

[72] SINGH, RAJINDER, US
[72] YAU, KWOK, US
[72] ZENG, YIBIN, US
[72] ZHANG, PENGLIE, US
[72] LUI, REBECCA M., US
[72] YANG, JU, US
[72] ROTH, HOWARD S., US
[71] CHEMOCENTRYX, INC., US
[22] 2020-11-06
[41] 2021-05-14
[62] 3,155,950
[30] US (62/932,658) 2019-11-08

[21] **3,236,312**
[13] A1

[25] EN
[54] **TRACK STRUCTURE WITH CENTER RAIL**

[54] LAMBERT, AARON KEVIN, CA
[71] RIINO INC., CA
[22] 2020-12-29
[41] 2022-07-07
[62] 3,206,643

[21] **3,236,316**
[13] A1

[51] **Int.Cl. E21B 23/06 (2006.01) E21B 33/128 (2006.01) E21B 43/26 (2006.01)**

[25] EN
[54] **SETTING TOOLS AND ASSEMBLIES FOR SETTING A DOWNHOLE ISOLATION DEVICE SUCH AS A FRAC PLUG**

[54] **OUTILS ET ENSEMBLES DE REGLAGE POUR LA MISE EN PLACE D'UN DISPOSITIF D'ISOLATION DE FOND DE TROU TEL QU'UN BOUCHON DE FRACTURATION**

[72] MICKEY, CLINT, US
[72] KENDRICK, KENNETH, US
[71] REPEAT PRECISION, LLC, US
[22] 2019-02-13
[41] 2020-04-10
[62] 3,033,698
[30] US (62/743,716) 2018-10-10
[30] US (62/776,503) 2018-12-07

[21] **3,236,437**
[13] A1

[51] **Int.Cl. B32B 15/04 (2006.01) B32B 18/00 (2006.01)**

[25] EN
[54] **A COVERING ELEMENT FOR FLOOR AND A FLOOR COVERING**

[54] **ELEMENT DE RECOUVREMENT POUR PLANCHER ET UN COUVRE-PLANCHER**

[72] PAGANELLI, MARIANO, IT
[72] BENEVENTI, CLAUDIO, IT
[72] VALERIANI, LORENZO, IT
[71] FLOORING INDUSTRIES LIMITED, SARL, LU
[22] 2020-08-19
[41] 2021-03-04
[62] 3,143,684
[30] IT (102019000015117) 2019-08-29

[21] **3,236,458**
[13] A1

[51] **Int.Cl. E06B 1/70 (2006.01) E06B 1/30 (2006.01) E06B 1/36 (2006.01)**

[25] EN
[54] **STRUCTURAL MEMBER OF A TRANSOM**

[54] **ELEMENT STRUCTURAL D'UNE TRAVERSE D'IMPOSTE**

[72] MAKWICH, GORDON, CA
[72] SCHWARTZ, JOEL, CA
[72] JAROLIM, ADAM, CA
[71] GRANDVIEW EA BUILDING SYSTEMS CORP., CA
[22] 2021-04-13
[41] 2022-10-13
[62] 3,114,850

[21] **3,236,474**
[13] A1

[51] **Int.Cl. A01N 53/08 (2006.01) A01N 25/28 (2006.01) A01P 7/04 (2006.01)**

[25] EN
[54] **STABLE CO-FORMULATION OF BENZOYLUREA WITH PYRETHROIDS**

[54] **CO-FORMULATION STABLE DE BENZOYLUREE AVEC DES PYRETHROIDES**

[72] MORE, PRAVIN NAMADEO, IN
[72] SHIRSAT, RAJAN RAMAKANT, IN
[72] SHROFF, JAIDEV RAJNIKANT, AE
[72] SHROFF, VIKRAM RAJNIKANT, AE
[71] UPL LTD, IN
[22] 2019-06-04
[41] 2019-12-26
[62] 3,118,737
[30] IN (201831022744) 2018-06-18

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] 3,236,488 [13] A1	[21] 3,236,518 [13] A1	[21] 3,236,526 [13] A1
[25] EN [54] SYSTEM AND METHOD FOR CHARACTERISING BIOREACTOR FLUIDS USING A MAGNETIC RESONANCE APPARATUS [54] SYSTEME ET PROCEDE DE CARACTERISATION DE FLUIDES DE BIOREACTEUR A L'AIDE D'UN APPAREIL DE RESONANCE MAGNETIQUE [72] BLUMBERG, DAVID, US [72] TILLEY, MICHAEL C., US [72] KANE, DEREK G., US [72] NIVENS, DAVID C., US [71] DEKA PRODUCTS LIMITED PARTNERSHIP, US [22] 2018-11-30 [41] 2019-06-06 [62] 3,083,979 [30] US (62/593,408) 2017-12-01 [30] US (62/701,251) 2018-07-20	[51] Int.Cl. A61K 31/4985 (2006.01) A61K 9/20 (2006.01) A61K 47/32 (2006.01) A61P 11/06 (2006.01) A61P 37/06 (2006.01) C08K 5/3462 (2006.01) C08L 33/00 (2006.01) C08L 71/02 (2006.01) C08L 101/00 (2006.01) [25] EN [54] DOSAGE FORM COMPOSITIONS COMPRISING AN INHIBITOR OF BRUTON'S TYROSINE KINASE [54] COMPOSITIONS DE FORMES GALENIQUES COMPRENANT UN INHIBITEUR DE LA TYROSINE KINASE DE BRUTON [72] MAO, CHEN, US [72] KOU, DAWEN, US [72] CHIANG, PO-CHANG, US [71] F. HOFFMANN-LA ROCHE AG, CH [22] 2017-02-27 [41] 2017-09-08 [62] 2,997,859 [30] US (62/301,373) 2016-02-29	[25] EN [54] SYSTEM FOR CONTROLLING WATER USED FOR INDUSTRIAL FOOD PROCESSING [54] SYSTEME DE REGULATION DE L'EAU UTILISEE POUR LA TRANSFORMATION INDUSTRIELLE D'ALIMENTS [72] BRENNAN, JAMES M., US [72] LINDSTROM, DANNY ELMER, US [72] MCGINNIS, CHRISTOPHER MICHAEL, US [72] WILHELMSEN, ERIC CHILD, US [71] SMARTWASH SOLUTIONS, LLC, US [22] 2017-10-03 [41] 2018-04-12 [62] 3,039,200 [30] US (62/403,322) 2016-10-03
[21] 3,236,512 [13] A1	[21] 3,236,521 [13] A1	[21] 3,236,527 [13] A1
[25] EN [54] COMPOSITIONS AND METHODS FOR TREATING HEMOGLOBINOPATHIES [54] COMPOSITIONS ET METHODES DE TRAITEMENT D'HEMOGLOBINOPATHIES [72] SLAYMAKER, IAN, US [72] GAUDELLI, NICOLE, US [72] YU, YI, US [72] ZETSCHKE, BERND, US [72] BORN, DAVID A., US [72] LEE, SEUNG-JOO, US [72] PACKER, MICHAEL, US [71] BEAM THERAPEUTICS INC., US [22] 2020-02-13 [41] 2020-08-20 [62] 3,128,755 [30] US (62/805,277) 2019-02-13 [30] US (62/805,271) 2019-02-13 [30] US (62/852,228) 2019-05-23 [30] US (62/852,224) 2019-05-23 [30] US (62/931,722) 2019-11-06 [30] US (62/931,747) 2019-11-06 [30] US (62/941,569) 2019-11-27 [30] US (62/966,526) 2020-01-27	[25] EN [54] SOLDER ALLOY, SOLDER BALL AND SOLDER JOINT [54] ALLIAGE DE SOUDAGE, GLOBULE DE SOUDURE ET JOINT A BRASURE TENDRE [72] IJIMA, YUKI, JP [72] YOSHIKAWA, SHUNSAKU, JP [72] DEI, KANTA, JP [72] MATSUFUJI, TAKAHIRO, JP [72] SUGISAWA, KOTA, JP [71] SENJU METAL INDUSTRY CO., LTD., JP [22] 2021-11-17 [41] 2022-05-27 [62] 3,198,256 [30] US (63/115,611) 2020-11-19	[25] EN [54] SOLDER ALLOY, SOLDER BALL AND SOLDER JOINT [54] ALLIAGE DE SOUDAGE, GLOBULE DE SOUDURE ET JOINT A BRASURE TENDRE [72] IJIMA, YUKI, JP [72] YOSHIKAWA, SHUNSAKU, JP [72] DEI, KANTA, JP [72] MATSUFUJI, TAKAHIRO, JP [72] SUGISAWA, KOTA, JP [71] SENJU METAL INDUSTRY CO., LTD., JP [22] 2021-11-17 [41] 2022-05-27 [62] 3,198,256 [30] US (63/115,611) 2020-11-19

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] 3,236,531 [13] A1	[21] 3,236,584 [13] A1	[21] 3,236,604 [13] A1
<p>[25] EN</p> <p>[54] WATER VAPOR DISTILLATION APPARATUS, METHOD AND SYSTEM</p> <p>[54] APPAREIL, PROCEDE ET SYSTEME DE DISTILLATION DE LA VAPEUR D'EAU</p> <p>[72] KAMEN, DEAN, US</p> <p>[72] LAROCQUE, RYAN K., US</p> <p>[72] LANGENFELD, CHRISTOPHER C., US</p> <p>[72] ENT, STEPHEN M., US</p> <p>[72] SCHNELLINGER, ANDREW A., US</p> <p>[72] BHAT, PRASHANT, US</p> <p>[72] SMITH, STANLEY B., III, US</p> <p>[72] CLAPP, OTIS L., US</p> <p>[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US</p> <p>[22] 2012-07-13</p> <p>[41] 2013-01-24</p> <p>[62] 3,077,963</p> <p>[30] US (13/184,169) 2011-07-15</p>	<p>[25] EN</p> <p>[54] WATER FILTRATION APPARATUS WITH IMPROVED FILTER CARTRIDGE HOUSING AND DISTRIBUTOR</p> <p>[54] APPAREIL DE FILTRATION D'EAU EQUIPE D'UN LOGEMENT DE CARTOUCHE DE FILTRE AMELIORE ET D'UN DISTRIBUTEUR</p> <p>[72] MACDONALD, DANIEL NICHOLAS, CA</p> <p>[72] CASTELLOTE, MIGUEL A., CA</p> <p>[71] FILTER GROUP INC., CA</p> <p>[22] 2018-03-26</p> <p>[41] 2019-09-26</p> <p>[62] 2,999,315</p>	<p>[25] EN</p> <p>[54] GAS-FED FERMENTATION REACTORS, SYSTEMS AND PROCESSES UTILIZING GAS/LIQUID SEPARATION VESSELS</p> <p>[54] REACTEURS DE FERMENTATION ALIMENTES PAR GAZ, SYSTEMES ET PROCEDES UTILISANT DES RECIPIENTS DE SEPARATION GAZ/LIQUIDE</p> <p>[72] NGUYEN, LUAN THANH, US</p> <p>[72] SILVERMAN, JOSHUA A., US</p> <p>[72] AYLEN, GRAHAM IAN, US</p> <p>[71] CALYSTA, INC., US</p> <p>[22] 2018-08-13</p> <p>[41] 2019-02-21</p> <p>[62] 3,072,344</p> <p>[30] US (62/545,347) 2017-08-14</p>
[21] 3,236,573 [13] A1	[21] 3,236,599 [13] A1	[21] 3,236,614 [13] A1
<p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR FLUID DELIVERY</p> <p>[54] SYSTEMES ET PROCEDES DE DISTRIBUTION DE FLUIDES</p> <p>[72] KAMEN, DEAN, US</p> <p>[72] KERWIN, JOHN M., US</p> <p>[72] GRAY, LARRY B., US</p> <p>[72] MANDRO, MARC A., US</p> <p>[72] BLUMBERG, DAVID JR., US</p> <p>[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US</p> <p>[22] 2009-09-15</p> <p>[41] 2010-03-18</p> <p>[62] 3,132,517</p> <p>[30] US (61/097,021) 2008-09-15</p> <p>[30] US (61/101,077) 2008-09-29</p> <p>[30] US (61/101,105) 2008-09-29</p> <p>[30] US (61/101,115) 2008-09-29</p> <p>[30] US (61/101,053) 2008-09-29</p> <p>[30] US (61/141,996) 2008-12-31</p> <p>[30] US (61/141,781) 2008-12-31</p>	<p>[25] EN</p> <p>[54] WATER-BASED HYDROGEL BLEND COATING AND METHOD OF APPLICATION TO ELASTOMERIC ARTICLES</p> <p>[54] REVETEMENT A BASE DE MELANGE D'HYDROGELS A BASE D'EAU ET PROCEDE D'APPLICATION SUR DES ARTICLES ELASTOMERES</p> <p>[72] WOO, CHOON KONG, US</p> <p>[72] CHONG, CHUANG SIM, US</p> <p>[72] DANGSEYUN, NUJALEE, US</p> <p>[72] WANNAWONG, PANOR, US</p> <p>[71] ALLEGIANCE CORPORATION, US</p> <p>[22] 2016-10-18</p> <p>[41] 2017-04-27</p> <p>[62] 3,001,865</p> <p>[30] US (62/243,116) 2015-10-18</p>	<p>[25] EN</p> <p>[54] SOLVENT COMPOSITION AND PROCESS FOR CLEANING CONTAMINATED INDUSTRIAL EQUIPMENT</p> <p>[54] COMPOSITION DE SOLVANT ET PROCEDE DE NETTOYAGE D'EQUIPEMENT INDUSTRIEL CONTAMINE</p> <p>[72] MATZA, STEPHEN D., US</p> <p>[71] UNITED LABORATORIES INTERNATIONAL, LLC, US</p> <p>[22] 2018-01-16</p> <p>[41] 2020-07-19</p> <p>[62] 3,088,625</p> <p>[30] US (15/407,137) 2017-01-16</p>

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,236,625**
[13] A1

[51] **Int.Cl. G05D 1/69 (2024.01) G05D 1/24 (2024.01) G05D 1/622 (2024.01) G05D 1/644 (2024.01)**

[25] EN
[54] **SWARM PATH PLANNER SYSTEM FOR VEHICLES**

[54] **SYSTEME DE PLANIFICATION DE TRAJET EN ESSAIM POUR VEHICULES**

[72] PAGLIERONI, DAVID W., US
[72] BEER, N. REGINALD, US
[72] CHAMBERS, DAVID, US
[71] LAWRENCE LIVERMORE NATIONAL SECURITY, LLC, US

[22] 2017-04-12
[41] 2018-10-18
[62] 3,093,522

[21] **3,236,659**
[13] A1

[25] EN
[54] **SECURITY SYSTEM FOR A MOVEABLE BARRIER OPERATOR**

[54] **SYSTEME DE SECURITE POUR UN OPERATEUR DE BARRIERE MOBILE**

[72] FITZGIBBON, JAMES J., US
[71] THE CHAMBERLAIN GROUP LLC, US

[22] 2018-12-20
[41] 2019-06-27
[62] 3,085,470
[30] US (62/608,977) 2017-12-21

[21] **3,236,736**
[13] A1

[25] EN
[54] **METHODS, SYSTEMS, AND MEDIA FOR CONTROLLING A TOOLFACE OF A DOWNHOLE TOOL**

[54] **METHODES, SYSTEMES ET SUPPORT POUR CONTROLER UNE FACE FONCTIONNELLE D'UN OUTIL DE FOND DE TROU**

[72] NEUFELDT, ADAM CHASE, CA
[72] ELEY, BRIAN JAMES, CA
[72] WILSON, THOMAS WILLIAM CHARLES, CA
[72] HOLT, TREVOR LEIGH, CA
[71] PASON SYSTEMS CORP., CA

[22] 2019-10-11
[41] 2021-04-11
[62] 3,058,741

[21] **3,236,745**
[13] A1

[25] EN
[54] **SONAR BEAM ZONE PRESENTATION**

[54] **PRESENTATION DE ZONE DE FAISCEAU SONAR**

[72] HOOPER, MATHEW J., NZ
[71] NAVICO HOLDING AS, NO

[22] 2022-01-19
[41] 2022-08-19
[62] 3,146,087
[30] US (17/179460) 2021-02-19
[30] US (17/349046) 2021-06-16

[21] **3,236,759**
[13] A1

[51] **Int.Cl. H01M 50/449 (2021.01) H01M 50/403 (2021.01) H01M 50/451 (2021.01) H01M 50/454 (2021.01) H01M 50/489 (2021.01) H01M 10/0525 (2010.01) H01M 6/14 (2006.01)**

[25] EN
[54] **MEMBRANES, SEPARATORS, BATTERIES, AND METHODS**

[54] **MEMBRANES, SEPARATEURS, BATTERIES ET METHODES**

[72] SHI, LIE, US
[72] WENSLEY, GLEN C., US
[72] ZHANG, ZHENGMIN, US
[72] CHEMELEWSKI, KATHARINE, US
[72] MA, JUNQING, US
[72] SMITH, RONNIE E., US
[72] CHO, KWANTAI, US
[72] FANG, WEIFENG, US
[72] ADAMS, CHANGQING WANG, US
[72] MCCALLUM, IAN, US
[72] NADA, JUN, US
[72] WILLIAMS, SHANTE P., US
[72] MANGUM, JACOB S., US
[71] CELGARD, LLC, US

[22] 2016-07-22
[41] 2017-01-26
[62] 2,992,141
[30] US (62/195,452) 2015-07-22
[30] US (62/195,457) 2015-07-22
[30] US (62/195,464) 2015-07-22
[30] US (62/308,492) 2016-03-15

[21] **3,236,782**
[13] A1

[25] EN
[54] **MTORC MODULATORS AND USES THEREOF**

[54] **MODULATEURS DE MTORC ET LEURS UTILISATIONS**

[72] TZANNIS, STELIOS T., US
[72] MASSEY, IAN J., US
[72] FROIDBISE, ALEXANDRE, US
[72] EPPE, GUILLAUME, US
[71] AEOVIAN PHARMACEUTICALS, INC., US

[22] 2020-01-22
[41] 2020-07-30
[62] 3,127,448
[30] US (62/795,482) 2019-01-22

[21] **3,236,820**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR REDUCING PRESSURE AT AN OUTFLOW OF A DUCT**

[54] **SYSTEMES ET PROCEDES POUR REDUCTION DE LA PRESSION AU NIVEAU D'UN ECOULEMENT SORTANT D'UN CONDUIT**

[72] NITZAN, YAACOV, IL
[72] YACOBY, MENASHE, IL
[72] FELD, TANHUM, IL
[71] WHITE SWELL MEDICAL LTD, IL

[22] 2016-05-10
[41] 2016-11-17
[62] 2,985,728
[30] US (62/159,465) 2015-05-11
[30] US (62/233,802) 2015-09-28

[21] **3,236,835**
[13] A1

[25] EN
[54] **C/EBP ALPHA SHORT ACTIVATING RNA COMPOSITIONS AND METHODS OF USE**

[54] **COMPOSITIONS D'ARN A ACTIVATION COURTE DE C/EBP ALPHA ET METHODES D'UTILISATION**

[72] SAERTROM, PAL, NO
[71] MINA THERAPEUTICS LIMITED, GB

[22] 2014-11-24
[41] 2015-05-28
[62] 2,930,973
[30] US (61/907,732) 2013-11-22

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,236,911**
[13] A1

[25] EN
[54] **AXMI477, AXMI482, AXMI486 AND AXMI525 TOXIN GENES AND METHODS FOR THEIR USE**
[54] **GENES DE TOXINES AXMI477, AXMI482, AXMI486 ET AXMI525 ET PROCEDES D'UTILISATION DE CEUX-CI**
[72] LEHTINEN, DUANE ALAN, US
[72] SAMPSON, KIMBERLEY S., US
[72] ROBERTS, KIRA, US
[72] DUNN, ETHAN, US
[72] CHOUGULE, NANA, US
[71] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US
[22] 2014-12-08
[41] 2015-06-18
[62] 3,172,737
[30] US (61/913,905) 2013-12-09
[30] US (61/913,911) 2013-12-09

[21] **3,236,928**
[13] A1

[51] **Int.Cl. C12Q 1/04 (2006.01) C12Q 1/02 (2006.01) C12Q 1/10 (2006.01) C12Q 1/14 (2006.01) C12Q 1/18 (2006.01) C12Q 1/20 (2006.01)**
[25] EN
[54] **METABOLOMIC CHARACTERIZATION OF MICROORGANISMS**
[54] **CARACTERISATION METABOLOMIQUE DE MICROORGANISMES**
[72] LEWIS, IAN ANDREW, CA
[72] RYDZAK, THOMAS, CA
[71] LEWIS, IAN ANDREW, CA
[71] RYDZAK, THOMAS, CA
[22] 2019-09-20
[41] 2020-12-03
[62] 3,139,767
[30] US (62/855,568) 2019-05-31

[21] **3,236,922**
[13] A1

[51] **Int.Cl. C08J 11/12 (2006.01) C07C 4/06 (2006.01) C10B 53/07 (2006.01) C10G 1/02 (2006.01) C08F 10/02 (2006.01)**
[25] EN
[54] **CIRCULAR ECONOMY FOR PLASTIC WASTE TO POLYETHYLENE VIA REFINERY FCC OR FCC/ALKYLATION UNITS**
[54] **ECONOMIE CIRCULAIRE DES DECHETS PLASTIQUES EN POLYETHYLENE PAR L'INTERMEDIAIRE D'UNITES DE FCC OU D'ALKYLATION/FCC DE RAFFINERIE**
[72] TIMKEN, HYE-KYUNG, US
[72] MCCORD, CAMERON, US
[71] CHEVRON U.S.A. INC., US
[22] 2020-12-23
[41] 2021-10-07
[62] 3,164,220
[30] US (63/002,053) 2020-03-30
[30] US (63/002,020) 2020-03-30

[21] **3,236,968**
[13] A1

[25] EN
[54] **EYEPIECES FOR AUGMENTED REALITY DISPLAY SYSTEM**
[54] **OCULAIRES POUR SYSTEME D'AFFICHAGE A REALITE AUGMENTEE**
[72] BHARGAVA, SAMARTH, US
[72] LIU, VICTOR KAI, US
[72] MESSER, KEVIN, US
[71] MAGIC LEAP, INC., US
[22] 2018-12-14
[41] 2019-06-20
[62] 3,084,011
[30] US (62/599,663) 2017-12-15
[30] US (62/608,555) 2017-12-20
[30] US (62/620,465) 2018-01-22

Index of Canadian Patents Issued

May 14, 2024

Index des brevets canadiens délivrés

14 mai 2024

10353744 CANADA LTD.	3,135,471	AMERICAN STERILIZER COMPANY	3,132,052	BARANTON, KONOGAN	3,012,278
10X GENOMICS, INC.	3,216,609	AMERLUX, LLC	2,979,876	BARBEAU, CLAUDE	2,999,730
3D GLASS SOLUTIONS, INC.	3,107,810	AMOVA GMBH	3,096,071	BARBEITO, ROBERT GONZALES	3,169,290
ABCAM LIMITED	2,970,023	AMTROL LICENSING INC.	3,100,354	BARBER, JOHN H.	3,057,069
ABUSHAKRA, SUSAN	2,997,376	ANCTIL, JAMES	2,980,566	BARBEY, JEAN-PHILIPPE	3,221,752
AC (MACAO COMMERCIAL OFFSHORE) LIMITED	2,936,727	ANDERSON, DAVE	3,003,192	BARNETT, JONATHAN K.	2,876,282
ACHAEMENID, LLC	3,117,307	ANDERSON, JAMES L.	3,186,310	BARONI, SERGIO	3,024,001
ACHTEN, GEORG	3,136,994	ANDREAE, BRADLEY S.	3,026,092	BARR, DOUGLAS J.	2,920,785
AD SERVICES OF ARKANSAS, INC.	3,186,310	ANNISS, WILLIAM THOMAS, III	3,099,478	BARRETT, STEPHEN JOHN	3,021,367
ADAPTIVE SPECTRUM AND SIGNAL ALIGNMENT, INC.	3,162,425	ANTABIO SAS	3,056,815	BARRETT, STEPHEN JOHN	3,056,318
ADEKA CORPORATION	2,948,122	AOKI, KATSUSHI	3,135,438	BARRIOS, ROANY	3,099,478
ADVANTECH TECHNOLOGY (CHINA) CO., LTD.	3,142,411	APPLEGATE, DANIEL	3,177,502	BARTENBACH, JEFF	3,005,946
AEBI, VERLE	3,075,509	APPLIED MEDICAL RESOURCES	2,942,551	BASF AGRICULTURAL SOLUTIONS SEED US LLC	2,884,895
AECC COMMERCIAL AIRCRAFT ENGINE CO., LTD.	3,158,796	APPS, WILLIAM P.	2,958,153	BASF SE	3,017,022
AESCHBACH, RODIN	3,025,850	ARAI, KENZO	3,004,623	BASF SE	3,031,140
AGASSINI, IVAN ALEJANDRO HERRERA	3,070,498	ARBUTUS BIOPHARMA CORPORATION	2,919,226	BATFER INVESTMENT S.A.	3,142,098
AGBUGA, OKAN	3,113,381	ARCELORMITTAL	3,142,331	BAYER, DOMNIK	3,017,022
AGGARWAL, GARIMA	2,876,282	ARDELYX, INC.	2,971,725	BAYMAG INC.	3,117,808
AGUIAR, CARLOS	3,100,354	ASANUMA HOLDINGS CO., LTD.	3,113,922	BAYS, F. BARRY	2,998,481
AIZENSTEIN, BRIAN	3,002,196	ASANUMA, KATSUhide	3,113,922	BEAUDET, DONALD C.	3,076,440
AKKARAKARAN, SONY	3,167,330	ASHER, JOSEPH M.	2,928,614	BECTON, DICKINSON AND COMPANY	3,096,795
AKUNURI, SREE NANDITA	3,031,940	ASIF, MUHAMMAD	3,003,300	BEDDOES, PAUL	3,091,908
ALAKONTIOLA, JUKKA	3,143,379	ASTEX THERAPEUTICS LIMITED	2,988,338	BEDNARZ, PHILIP	3,162,425
ALCARAZ ASENSIO, ANTONIO	2,900,022	ASTLE, ROBERT	3,099,478	BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.	3,135,968
ALDERUCCI, DEAN P.	2,928,614	ATALA, ANTHONY	3,001,341	BEIJING SURGERII ROBOTICS COMPANY LIMITED	3,118,932
ALDRIDGE, PETER	3,000,438	ATASHBAR, MASSOOD ZANDI	3,010,835	BELCHER, BRUCE	3,101,665
ALDWORTH, MICHAEL	3,035,049	ATSE, LLC	3,000,105	BELL, RUSSELL E.	3,074,189
ALLAWI, HATIM	3,002,196	ATTARWALA, MURTUZA	3,071,801	BELOV, IRINA	3,172,200
ALLEY, NIGEL	2,967,755	AUGUSTIN, ALOYS CHRISTOPHE	3,143,107	BENLATRECHE, YACINE	3,142,331
ALMA MATER STUDIORUM - UNIVERSITA' DI BOLOGNA	3,139,194	AURORA OPERATIONS, INC.	3,201,615	BENNETT, JESSE WILLIAM	3,030,182
ALSHINA, ELENA ALEXANDROVNA	3,152,228	AVERILL, BRYAN	2,982,985	BENTECH INC.	2,975,712
ALTENBURGER, RYAN	2,936,727	AVURE TECHNOLOGIES INCORPORATED	3,172,033	BERAZIANKA, IVAN	3,031,140
ALTIUM PACKAGING LP	3,177,502	AWAN, MUHAMMAD	3,091,908	BEREZOWSKI, NEIL	3,117,808
ALZHEON, INC.	2,997,376	AYYADURAI, MARY S.	3,049,185	BERG, ERIC	3,063,030
AMADOR, PAOLO GERIL	3,066,261	BABBUSH, RYAN	3,093,230	BERGER, BRIAN	3,116,842
AMATRIMARA INC. C.O.B. RIVER DRIVE MANUFACTURING	2,975,712	BADHAN, ATUL CHHAGAN BAI, YU	3,127,621 3,127,814	BERGIN, NIAMH	3,002,713
AMCOR FLEXIBLES BURGDORF GMBH	2,974,262	BAKER, KENNETH	3,165,642	BERRY, BRIAN	3,143,379
AMERICAN RIVER NUTRITION, LLC	3,079,538	BAKER, SHENDA M.	2,906,682	BEYRIA, LILHA	3,056,815
		BALAKRISHNAN, SATISH	3,089,744	BHASKARAN, MICHAEL	3,066,261
		BALES, THOMAS O., JR.	3,147,229	BIAN, LUANJIAN	3,127,397
		BALSAMO DE HERNANDEZ, VITTORIA	2,987,773	BIANCHETTI, GIULIA OTTAVIA	3,106,244
		BALTES, NICHOLAS	3,099,102	BILSKY, MATTHEW	3,012,573
		BAO, CHAOLEMENG	3,110,262	BIRD TECHNOLOGIES GROUP, INC.	2,983,938
				BISHOP, COLIN	3,001,341
				BISSING, JEFF	3,003,192
				BL TECHNOLOGIES, INC.	3,057,069
				BLACK, KATIE	2,942,551

Index of Canadian Patents Issued May 14, 2024

BLACKBERRY LIMITED	2,985,922	CALA HEALTH, INC.	3,011,993	CHEVRON U.S.A. INC.	2,997,018
BLACKBERRY LIMITED	3,021,367	CALCATERRA, CHRIS	2,980,289	CHISHOLM, P. SCOTT	2,989,212
BLACKBERRY LIMITED	3,030,182	CALIXTE, LAURENT	3,012,278	CHO, HE LEN	3,108,053
BLACKBERRY LIMITED	3,056,318	CALLAHAN, JAMES FRANCIS	2,988,338	CHOI, HEON SIK	3,211,556
BLACKLOCK, OLIVER S.	2,946,768	CAMPBELL, GORDON JOHN	3,169,290	CHOI, JOUNG WOO	3,108,053
BLANKS, ROBERT C.	2,971,725	CANADIAN NATURAL		CHOU, KENG	2,991,920
BLENCH, TOBY JONATHAN	3,056,815	RESOURCES LIMITED	2,940,145	CHRISTENSEN, KEVIN	2,982,985
BLESS, ALFRED, CHARLES	2,997,914	CANDEO, MARCELO C.	3,099,478	CHRONQVIST, ANDERS	
BLINOVA, NATALIA	2,971,725	CANNAN, CHAD	3,094,306	FREDRIK	3,021,367
BLUSH, JASON	3,097,838	CAO, ZHENZHEN	3,088,457	CHUANG, HSIAO CHIANG	3,137,163
BLUSH, JASON	3,097,839	CAPARTIS AG	3,059,266	CHURCH & DWIGHT CO., INC.	3,132,459
BMC SOFTWARE, INC.	3,055,978	CAPARTIS AG	3,062,522	CIEZOBKA, JORDAN	3,024,863
BODNARCHUK, MICHAEL		CAPITAL ONE SERVICES, LLC	3,163,214	CISCO TECHNOLOGY, INC.	3,071,801
STEVEN	3,056,815	CAPUZZI, LUIGI	3,025,290	CISCO TECHNOLOGY, INC.	3,132,644
BOEHM, JEFFREY CHARLES	2,988,338	CARTER, MATTHEW	3,165,682	CISCO TECHNOLOGY, INC.	3,132,658
BOGGS, JOSEPH W., II	3,153,124	CARTER-HOFFMANN, LLC	3,159,074	CISCO TECHNOLOGY, INC.	3,143,107
BOGUSLAWSKI, JOHN	2,921,062	CARTLEDGE, RICHARD	3,147,229	CITTADINO, ANTONIO	
BOLANOS, EDUARDO	2,942,551	CARTWRIGHT, CARTER B.	2,980,566	MICHAEL	2,995,124
BOLLINGER, AARON	3,177,502	CASEY, BRIAN M.	3,141,033	CLARK, DAVID EDWARD	3,056,815
BOLT MEDICAL, INC.	3,201,972	CASO, JAIME	2,920,785	CLARK, GEORGINA JANE	3,044,457
BOMBARDIER INC.	3,005,946	CASSIE, BRIAN	2,978,206	CLOUDTRAQ LLC	3,062,803
BOMBARDIER		CAVALLOTTI, REMI	3,142,331	COATES, ANDREW J.	3,096,100
TRANSPORTATION		CAVANI, FABRIZIO	3,139,194	COLE, STEPHEN J.	3,117,307
GMBH	3,048,080	CAYWOOD, RONALD JESSE	3,042,791	COLEMAN, DAN	2,991,041
BORDI, DAMON	3,116,842	CB INVESTISSEMENTS	2,912,935	COLINES S.P.A.	2,987,149
BORKE, BRIAN S.	3,066,380	CECCATO, CLAUDIO	3,151,523	COLLINS, EDWARD	2,980,289
BOSSKI, INC.	2,921,062	CEDARS-SINAI MEDICAL		COLORADO, RAMON, JR.	2,982,465
BOSTROM, HERJE	3,008,748	CENTER	2,881,394	COOPER, LISA	3,135,254
BOULD, FRED	2,920,785	CELLECTIS	3,099,102	COOPERATIE KONINKLIJKE	
BOWLES, MARK	3,178,196	CENTRE HOSPITALIER		AVEBE U.A.	3,139,407
BOWYER, ALEX	2,794,103	REGIONAL DE NANCY	2,981,402	COPLIN, THOMAS L.	3,091,661
BOYADZHIEV, IVAYLO	3,144,033	CEPHEID	2,957,359	CORBERAN ROC, ROSA	3,031,140
BOYADZHIEV, IVAYLO	3,154,186	CEVA, CARLOS JOSE	3,155,330	CORMIER, MARC	3,210,210
BRACE, CLARK	2,920,785	CFPH, LLC	2,928,614	COSTA, EDDIE	3,135,254
BRADLEY, MICHAEL	3,035,277	CHAI, KELVIN	3,096,795	COSTA, VERONICA	3,004,799
BRAINLAB AG	3,089,744	CHAKRABORTY, KAUSHIK	3,167,330	COSTELLO, KENNETH A.	3,075,509
BRANDAU, THOMAS A.	2,980,566	CHAMBERS, LARRY DELYNN	3,169,912	COTTON, CRAIG	3,118,264
BRANDT, KEN	3,099,478	CHAMPIGNY, MICHAEL	3,107,337	COULSON, BRIAN	3,117,066
BRESLIN, TRACY	2,942,551	CHAN, BETTY	3,004,623	COUTO, FERNANDO JOSE	
BRESSLER, DAVID	3,032,039	CHAN, KOK-KIN	3,209,067	REBELO DO	2,970,023
BREUILLE, DENIS	2,923,705	CHAN, NICKY	3,124,967	COVIDIEN LP	2,949,903
BRIANO, FLORIA		CHAN, PAUL MON-WAH	2,876,282	CREATE IT REAL A/S	3,090,310
OTTONELLO	2,990,947	CHAN, PAUL MON-WAH	2,948,241	CRIDLAND, ANDREW PETER	3,056,815
BRITA LP	3,074,189	CHANDA, ARANI	3,004,623	CROSS, JONATHAN	3,094,306
BRODERICK, KATE	2,930,695	CHARMOT, DOMINIQUE	2,971,725	CRYSTAL WORLD	
BROWN, BRADLEY	2,957,359	CHARTER		HOLDINGS, INC.	2,744,442
BROWN, MEREDITH V.	3,003,742	COMMUNICATIONS		CUI, DONGBING	2,978,976
BROWN, STEPHEN	2,989,212	OPERATING, LLC	3,154,554	CUI, YUBO	3,124,967
BROWN-HRUSKA, SHARON		CHAUDHARY, VIRAJ	3,163,214	CULLEN, ADAM	3,132,622
JOY	2,744,442	CHEN, CHIH-MING	3,020,933	CUNNINGHAM, NICHOLAS	
BRUNO BELLORIO, KARINI	3,098,256	CHEN, EDWARD SHI	2,967,968	FINN	3,127,621
BUCHANAN, KRIS	3,029,050	CHEN, JINJU	3,141,413	CURRAN, PATRICK	3,043,998
BUCKNER, MICHAEL	2,936,727	CHEN, LEI	3,049,493	CURRAN, SEAMUS	2,967,755
BUDJE, TANJA	3,050,057	CHEN, SHENGBO	3,167,330	CYCLOMAG PTY LIMITED	3,044,076
BUEHLER, CHRISTOPHER	3,144,033	CHEN, YANG	3,034,422	CYNOBER, LUC	2,923,705
BUONAMICI, SILVIA	3,004,623	CHENG, CHIA-JEN	3,146,605	CYREX LABORATORIES, LLC	2,964,555
BURKHOLZ, JONATHAN		CHENG, JRGANG	2,942,324	DA COSTA, DANIEL J.	2,906,231
KARL	3,096,795	CHENG, KE	2,881,394	DA SILVA, JOAQUIM	2,962,212
BURNS, THOMAS W.	2,980,289	CHENNAKESHU, SANDEEP	3,030,182	DAI, BO	3,127,397
BUSS, HILDA G.	3,165,682	CHEON, KAPSOO	3,124,967	DAILING JR., JOHN HERBERT	3,124,638
BYTEDANCE INC.	3,135,968	CHERET, JEREMY	3,024,001	DANN, KEVIN M.	2,920,785
BYTEDANCE INC.	3,137,163	CHERIAN, GEORGE	3,003,300	DARIMONT-NICOLAU,	
CAI, QINGHUA	3,110,262	CHERNYAK, ROMAN		CHRISTIAN	2,923,705
CAI, ZHIBO	3,110,262	IGOREVICH	3,152,228	DASGUPTA, ANINDYA	3,018,131

**Index des brevets canadiens délivrés
14 mai 2024**

DAVIDSON, JAMES P.	2,971,725	ECOLAB USA INC.	2,982,465	FERNANDEZ VILLENA, JORGE	3,153,503
DAVIES, DAVID THOMAS	3,056,815	ECOLAB USA INC.	2,987,773	FERRARA, JR. JAMES	3,201,615
DAVIS, BRETT L.	2,926,835	ECOLAB USA INC.	2,989,956	FERRING B.V.	3,098,256
DAVIS, RICHARD C.	3,181,281	ECOLAB USA INC.	3,026,380	FINA BIOTECH, S.L.	2,900,022
DAVIS, RODERICK S.	2,988,338	ECOLAB USA INC.	3,128,194	FISHER CONTROLS INTERNATIONAL LLC	2,980,566
DAYTON, PAUL	2,998,481	EDWARDS LIFESCIENCES AG	3,147,229	FISK, JASON S.	3,165,682
DE CASTRO MELO NOGUEIRA, GILBIA	3,098,256	EDWARDS, JOSHUA	3,163,214	FITZPATRICK, MARTIN	3,002,713
DE CHILLOU, CHRISTIAN	2,981,402	EDWARDS, NATHAN	3,152,686	FIX, KATHLEEN ANN	3,132,052
DE CLERCK, ELKE	3,179,000	EINRICHTWERK GMBH	3,074,631	FLEMMING, JEB H.	3,107,810
DE FARIA, JEANE ROBERTA SANTANA	3,098,256	EISAI R&D MANAGEMENT CO., LTD.	3,004,623	FLX SOLUTIONS, INC.	3,012,573
DE SOUZA TEIXEIRA, LEONARDO	3,098,256	EL YACOUBI, KAMEL	3,148,140	FORGE HYDROCARBONS CORPORATION	3,032,039
DE WITT, GREGORY TAYLOR	3,062,803	ELBIT SYSTEMS LTD.	3,010,263	FORMULATED MATERIALS LLC	3,077,825
DEFREITAS, KENNETH F.	3,159,070	ELECTROLUX HOME PRODUCTS, INC.	3,099,478	FORSYTHE, STEPHANIE J.	3,033,389
DEINES, JAMES HERBERT	3,045,618	ELI LILLY AND COMPANY	3,112,763	FORT HILLS ENERGY L.P.	3,175,835
DEJONGE, STUART W.	3,110,739	ELIASSON, MIKAEL	3,023,389	FREICHEL, CHRISTIAN	3,114,728
DEKA PRODUCTS LIMITED PARTNERSHIP	3,123,018	ELIOT INNOVATIVE SOLUTIONS S.A.S.	3,036,973	FRETZ, DARREN G.	2,982,985
DEL VECCHIO, ORIN	2,876,282	ELKEM SILICONES FRANCE SAS	3,068,123	FREY, TIMOTHY	3,097,838
DEL VECCHIO, ORIN	2,948,241	ELLIOTT, RICHARD LEONARD	3,056,815	FREY, TIMOTHY	3,097,839
DELTA ELECTRONICS, INC.	3,146,605	ELTOUKHY, HELMY	2,983,833	FRIEBE, MICHAEL	3,089,744
DEMAREST, STEPHEN JOHN	3,112,763	ENDO, ATSUSHI	3,004,623	FU, YAYUAN	2,978,976
DENDROCYTE BIOTECH PTY LTD	3,044,457	ENGBLOM, JOHAN	3,036,306	FU, ZENGXUE	3,139,846
DENG, ZHIPIN	3,135,968	ENGUEHARD, MARCEL PAUL SOSTHENE	3,132,644	FUJI CORPORATION	3,136,298
DEOLALIKAR, NEELESH V.	3,169,912	EOTECH, LLC	3,075,509	FUJI OIL HOLDINGS INC.	3,053,895
DESCLOUX, DELPHINE	3,125,131	ERIKSSON, PER OLA	3,108,709	FULLENKAMP, ALAN C.	3,172,033
DESIGN SCIENCE TECHNOLOGY LLC	3,115,337	ESENLIK, SEMIH	3,152,228	FUTUREVAULT INC.	3,035,277
DESMOUCEAUX, YOANN	3,132,644	ESPARZA, ROLANDO WILLCOX	3,093,914	G.A.M.A S.R.L.	3,155,330
DEVILLE, DEREK DEE	3,147,229	ESSILOR INTERNATIONAL	3,012,278	GABRIEL, MICHAEL RICHARD	3,093,911
DIEHL AEROSPACE GMBH	2,994,782	ETTRUP, JENS	3,011,268	GADY, OLIVIA	3,124,967
DIGIOIA, FRANCESCA	3,025,290	EVANS, KENNETH MICHAEL	3,029,050	GANJAWALA, TUSHAR H.	2,942,324
DILL, SCOTT LEONARD	3,030,182	EVEN, RALPH C.	3,165,682	GAO, HAN	3,152,228
DING, JINFEI	3,135,471	EVERETT, MARTIN	3,056,815	GAO, YANG	3,192,107
DING, YIJIN	3,110,262	EVOQUA WATER TECHNOLOGIES LIMITED	3,091,908	GARAY, GREGORY TERRENCE	3,045,616
DIRTT ENVIRONMENTAL SOLUTIONS, LTD.	2,978,206	EVOQUA WATER TECHNOLOGIES LLC	3,091,908	GARAY, GREGORY TERRENCE	3,045,618
DISSING A/S	3,043,258	EXACT SCIENCES CORPORATION	3,002,196	GARDAI, SHYRA	2,963,720
DISSING, CLAUS HORNSTRUP	3,043,258	F. HOFFMANN-LA ROCHE AG	3,004,799	GARIKAPATI, NALINIKANTH	3,062,918
DIXON, MICHAEL	3,148,411	F. HOFFMANN-LA ROCHE AG	3,114,728	GARNER, WILLIAM NICHOLAS	2,940,145
DJALALI, ALEX	3,115,268	F. HOLZER GMBH	3,027,580	GAS TECHNOLOGY INSTITUTE	3,024,863
DOHERTY, MICHAEL	3,002,713	FADELL, ANTHONY M.	3,148,411	GASIOROWSKI, ROBIN	3,044,457
DOLBY INTERNATIONAL AB	3,140,749	FAGAN, TIM	3,005,946	GASKIN, THOMAS K.	3,035,873
DONAHUE, ERIC D.	3,000,105	FAGHIDI, HAMID	3,062,918	GATTO, VINCENT J.	3,141,033
DONG, YINGYING	3,172,692	FALKENSTEIN, ZORAN	2,942,551	GAUTIER, SERGE	2,912,935
DONOVAN, MADELINE A.	3,074,189	FAN GAO LE TRADE (SHENZHEN) CO., LTD.	3,217,859	GAY, JEREMIE PIERRE	3,090,310
DOW GLOBAL TECHNOLOGIES LLC	3,165,682	FANG, HUIYING	3,127,397	GAYRARD, JEAN DIDIER	3,046,412
DOW SILICONES CORPORATION	3,165,682	FANG, RUIMING	3,122,129	GCX CORPORATION	3,042,791
DROUARD, WENDY	3,057,755	FANGROW, THOMAS F.	3,006,951	GEARHART, NICHOLAS C.	3,004,623
DUBEN, AHRON	3,178,196	FARBIZIO, TOM	3,159,070	GENERAL ELECTRIC COMPANY	3,045,616
DUERR, ANNA KATHARINA	3,017,022	FARCI, ERIKA	3,139,194	GENERAL ELECTRIC COMPANY	3,045,618
DUKES, SIMON P.	3,091,908	FAURIE, RENE	2,985,922	GEORGI, ANETT	3,115,010
DUMMERMUTH, MARTIN	2,983,938	FAURIE, RENE	3,056,318	GEORGINSON, RYAN	3,106,744
DUONG, ALAN	3,201,972	FELSINGER, NATASHA	2,942,551	GERARD, BAUDOUIIN	3,004,623
DUPONT, DAVID	3,057,755	FENG, LIANGWANG	3,139,349	GESTIONS ROBERTO INC.	3,016,503
DURAN, JR., CARLOS MIGUEL	2,744,442	FERGUSON, JOE WILLIAM	2,998,481	GEVERT, BORJE	3,008,748
DWORAK, DAVID	3,002,713			GHEORGHE, DANIEL	3,143,379
DYNAMIC ACCESSION LLC	3,172,268				
ECOATM, LLC	3,178,196				

**Index of Canadian Patents Issued
May 14, 2024**

GHOSE, SAYATA	3,068,714	GUANGDONG GALANZ		HEIGHTMAN, THOMAS	
GHOSH, KAUSTAV	3,128,194	MICROWAVE		DANIEL	2,988,338
GIAKOUMOPOULOS, MARIA	3,002,196	ELECTRICAL		HEILMANN, MICHAEL	2,918,765
GIL HUMANES, JAVIER	3,099,102	APPLIANCES		HEINRICH, VOLKER	2,884,895
GIL, CARLOS EDUARDO	2,998,481	MANUFACTURING CO.,		HELDMAN, ELIAHU	2,883,784
GILKISON, DANNY CHARLES	3,126,115	LTD.	3,139,349	HELMHOLTZ-ZENTRUM FUR	
GILL CORPORATE LIMITED	2,946,768	GUANGDONG OPPO MOBILE		UMWELTFORSCHUNG	
GIULIANI S.P.A.	3,024,001	TELECOMMUNICATIONS		GMBH - UFZ	3,115,010
GJORSVIK, TORE	3,008,555	CORP., LTD.	3,095,648	HENDERSON, KATIE	3,101,665
GLARUM, JOHN B.	3,126,115	GUANGDONG OPPO MOBILE		HENDERSON, STEVEN M.	2,980,289
GLASSFORD, JEFFREY	3,035,049	TELECOMMUNICATIONS		HENDRICKS, SHAWN	3,172,268
GLAUKOS CORPORATION	2,980,289	CORP., LTD.	3,118,227	HENKEL AG & CO. KGAA	3,002,713
GLAXOSMITHKLINE		GUARDANT HEALTH, INC.	2,983,833	HENTTONEN, TERO	3,088,486
INTELLECTUAL		GUARDIAN GLASS, LLC	3,097,838	HERAVI, OLIVER	2,982,985
PROPERTY		GUARDIAN GLASS, LLC	3,097,839	HERMANN, CARL	3,042,791
DEVELOPMENT LIMITED	2,988,338	GUARDIAN GLASS, LLC	3,113,381	HERMANSON, KEVIN DAVID	3,018,131
GLENCORE TECHNOLOGY		GUO, HAIFENG	3,192,107	HERMEY, ANDREAS	3,127,646
PTY LIMITED	3,108,709	GUO, QIANG	3,172,692	HERNANDEZ, DAVID	3,177,502
GODAL, ASLAK	3,008,555	GUPTA, AMIT	3,055,978	HESCH, WAYNE EDWARD	
GOEL, RAKESH	3,063,030	GUPTA, SIDDHARTH	3,175,835	JASON	3,035,049
GOJO INDUSTRIES, INC.	3,148,140	GURER, CAGAN	3,124,228	HEY, JOHN	2,997,376
GOLDBURG, MARC	3,162,425	GUTH, LOUIS	2,744,442	HEYES, JAMES	2,919,226
GOLDEN BIOTECHNOLOGY		GUVELIOGLU, GALIP	3,035,873	HEYRIES, KEVIN ALBERT	2,906,231
CORPORATION	3,020,933	GYLFASON, KRISTINN B.	2,990,947	HICKS, MICHAEL MARTIN	3,062,918
GOODWIN, NICOLE		HABEYCH NARVAEZ, DAVID		HILGENBERG GMBH	3,122,155
CATHLEEN	2,988,338	IGNACIO	3,139,407	HILGENBERG, INGO	3,122,155
GOOGLE LLC	3,093,230	HACKL, DANIEL PATRICK	3,022,771	HINDSON, BENJAMIN	3,216,609
GOOGLE LLC	3,093,914	HAFFNER, DAVID S.	2,980,289	HIRTH, GREGORY	2,919,702
GOOGLE LLC	3,148,411	HALDAR, AMRITA	2,967,755	HLEBAK, JOSHUA J.	3,031,940
GOPALAKRISHNAN,		HALDENBY, PERRY AARON		HOEL, STEPHEN	2,919,702
RAGHAVAN	3,165,642	JONES	2,948,241	HOENER, MARIUS	3,004,799
GORDON, JAMES N.	3,124,967	HALLIBURTON ENERGY		HOFMANN, KARL ROBERT	3,096,071
GOSLING, GEOFF	2,978,206	SERVICES, INC.	3,124,638	HOFSTATTER, JOSEF	3,007,505
GOTTE, HUBERT	3,089,744	HALLIBURTON ENERGY		HOFSTETTER, GREGORY K.	2,942,551
GPCP IP HOLDINGS LLC	2,995,124	SERVICES, INC.	3,151,588	HOLMES, HEIDI	2,942,551
GPCP IP HOLDINGS LLC	3,066,380	HALLIBURTON ENERGY		HOLOGIC, INC.	3,159,070
GRANT, WILLARD	3,099,478	SERVICES, INC.	3,169,912	HOLSHAGEN, BJOERN	3,116,842
GRAVER TECHNOLOGIES		HAMILTON, PARIS L.	2,988,338	HOLZER, FRANK	3,027,580
LLC	3,101,665	HAMNER, SAMUEL RICHARD	3,011,993	HOLZHUTER, HANNO	3,074,628
GRAY, MELISSA M.	3,002,196	HAN, DAE NAM	3,175,959	HOODA, SANJAY KUMAR	3,132,658
GRAY, MICHAEL	3,165,142	HAN, JUNG HO	3,175,959	HOOVER, ANDREW	2,958,011
GREBOVAL, ELODIE	3,148,140	HAN, ZHAOJUN	3,171,644	HOPKINS, MICHAEL	3,058,118
GREEN, ALON	3,151,391	HANCHETT ENTRY SYSTEMS,		HOSSEN, MONJUR	3,003,300
GREEN, ALON	3,151,398	INC.	2,926,835	HOU, JILEI	3,045,933
GREEN, MATTHEW	3,165,142	HANSELL, DOUGLAS R.	3,135,254	HOU, YUANYUAN	3,172,692
GREEN, NICHOLAS	3,116,842	HANSEN, CARL L. G.	2,906,231	HOULE, MARK	3,016,529
GREGORICH, BRENT	2,936,727	HANTHORN, JASON J.	3,047,284	HOULIHAN, JIM	3,002,713
GRIEBEL, JEFF	3,135,254	HARBOE, HENRIK	3,011,268	HOVDEBO, KENTON	2,978,206
GRIFFIN, ROB	3,016,529	HARDING, WESTON F.	3,096,795	HU, OLIVIA	3,096,795
GRIFFIS, JOSHUA	3,091,908	HART, CHARLES, C.	2,942,551	HU, YOUJUN	3,127,397
GRIFFITHS-JONES,		HART, DEREK NIGEL JOHN	3,044,457	HUANG, SHIH HAN	3,169,290
CHARLOTTE MARY	2,988,338	HARVELL, CHRIS	3,081,706	HUANG, YONGZHENG	3,142,411
GRILLENBERGER, RALF	3,036,306	HASSELL, JON P.	2,958,153	HUAWEI TECHNOLOGIES	
GRINBERG, SARINA	2,883,784	HATT, HANNS	3,024,001	CO., LTD.	3,049,493
GROUND TRANSPORTATION		HECKER, ANAIS	3,050,057	HUAWEI TECHNOLOGIES	
SYSTEMS CANADA INC.	3,151,391	HECKMANN, FREDERIC	3,093,914	CO., LTD.	3,088,457
GROUND TRANSPORTATION		HEDARCHET, STEPHANE		HUAWEI TECHNOLOGIES	
SYSTEMS CANADA INC.	3,151,398	ANTONY	2,984,047	CO., LTD.	3,152,228
GU, QIONG	3,018,131	HEDTJARN, MAJ	3,004,799	HUAWEI TECHNOLOGIES	
GUANGDONG GALANZ		HEFEI HUALING CO., LTD.	3,122,129	CO., LTD.	3,152,464
ENTERPRISES CO., LTD.	3,139,349	HEFEI MIDEA		HUBBELL INCORPORATED	2,967,968
		REFRIGERATOR CO.,		HUMMEL, ROBERT A.	3,000,105
		LTD.	3,122,129	HUNTER DOUGLAS INC.	2,920,785
		HEIDEBRECHT, PETER	3,017,022	HUTCHCROFT, WILL ADRIAN	3,144,033

**Index des brevets canadiens délivrés
14 mai 2024**

HUY, GERHART P.	3,132,459	JU, SOUNG HO	3,175,959	KOSKINEN, JUSSI-PEKKA	3,088,486
HYNES, AIMEE	3,002,713	JUN, SOO YOUN	3,010,565	KOSS, MATTHEW	3,127,814
IBRAHIM, AHMED	2,881,394	JUNG, GI MO	3,010,565	KOSTJUK, SERGEI V.	3,031,140
ICU MEDICAL, INC.	3,006,951	JURKOVIC, MICHAEL	3,075,509	KOSTRZEWSKI, STANISLAW	2,949,903
IGO, JOHN	3,077,825	JX METALS CORPORATION	3,135,438	KOTAKE, YOSHIHIKO	3,004,623
IGUS GMBH	3,127,646	KACZYNSKI, CHRISTINE	3,142,331	KOTRA, ANAND MEHER	3,152,228
ILLANES MANRIQUEZ, ALFREDO GUILLERMO	3,089,744	KAHAIAN, ARTHUR	2,989,956	KOU, ZIMING	3,225,944
INGERSOLL, DANIEL	3,018,050	KAISER, MICHAEL W.	3,002,196	KOUVA, MERJA	3,121,309
INGURAN, LLC	3,029,050	KAISER, NANCY-HOPE ELIZABETH	3,132,052	KOVACH, JOSEPH E.	2,920,785
INNOPEUTICS CORPORATION	3,144,874	KALINA, CHARLES		KRIJT, MATYAS	3,165,065
INNOTEX INC.	2,999,730	RAYMOND	2,980,289	KRIST, RANDY F.	3,114,387
INOVIO PHARMACEUTICALS, INC.	2,930,695	KALINOWSKI, DANE GIN MUN	2,958,153	KT&G CORPORATION	3,175,959
INTERACTIVE SOLUTIONS CORP.	3,137,287	KALRA, AMIT	3,066,261	KUANG, YIRU	3,088,457
INTERNATIONAL BUSINESS MACHINES CORPORATION	3,165,142	KANADA SONABE, REGINA MIKIE	3,004,623	KUBICEK, PAVEL	2,996,037
INTRON BIOTECHNOLOGY, INC.	3,010,565	KANG, SANG HYEON	3,010,565	KUMAR, AJOY	3,055,978
INTUIT INC.	3,093,911	KAROL, DANIEL SCOTT	3,123,018	KUMIAI CHEMICAL INDUSTRY CO., LTD.	3,132,797
INTUIT INC.	3,159,028	KASS, RONALD R.	2,920,785	KUNDU, KOUSIK	3,026,380
INTUIT INC.	3,162,923	KATO, MASAHARU	3,053,895	KUO, TZU-CHI	3,165,682
IRKA, PHILIP	2,949,903	KEANEY, GREGG F.	3,004,623	KURONEN, MARKKU	3,121,309
ISHII, YOICHI	2,964,316	KELLEY, SHANA	3,000,438	KUTER-ARNEBECK, OTTOLEO	3,114,387
ISHIWATA, AKIYUKI	3,053,895	KELLOGG COMPANY	3,003,300	KUZUYAMA, TOMOHISA	2,948,122
ISHIZUKA, MASAYUKI	2,980,991	KELSALL, ADAM	3,094,306	LABER, BERND	2,884,895
IYER, G. S. NARAYAN	3,055,978	KELSEY, CHRISTOPHER GEORGE	3,044,076	LABONTE, ERIC	2,971,725
JABCZYNSKI, WOLFGANG	3,017,022	KEMCO	3,211,556	LACOMBE, YVES	2,989,212
JACOBS, JEFFREY W.	2,971,725	KENNEDY, ADAM D.	3,003,742	LAI, CHOUNG-HOUNG	3,124,967
JAEKER, THILO-ALEXANDER	3,127,646	KERNS, JEFFREY K	2,988,338	LAIL, MARTY	3,031,940
JAFARI, MARYAM	3,117,808	KESTER, NORMAN L.	3,126,115	LAKDAWALA SHAH, AMI	2,988,338
JAGASIA, RAVI	3,004,799	KIISKI, ULLA	3,121,309	LALL, NIGEL	2,876,282
JAIN, PRAKASH C.	3,132,658	KIM, GOO YOUNG	3,108,053	LAMBERT, JOHN W.	3,154,186
JANG, JI SOO	3,175,959	KIM, SANG HOON	3,108,053	LAN, TIAN	3,165,682
JARVIS, DANIEL	3,066,261	KIM, SEUNGHWAN	3,143,240	LANE, RICHARD	3,152,686
JELETIC, MATTHEW	3,165,682	KIM, TAE GYUN	3,144,874	LANGE, GUDRUN	2,884,895
JENKINS, KYLE WILLIAM	2,957,858	KIM, YOUNG LEA	3,175,959	LANGSETMO, INGRID	2,971,725
JENSEN, MADS AABOE	3,004,799	KIMLIN, NOEL DOUGLAS	3,108,709	LARJO, JUSSI PEKKA	3,143,311
JIANG, BIAO	3,141,413	KIMURA, NAOFUMI	3,108,709	LAUREN SCIENCES LLC	2,883,784
JIANG, FAN	3,175,835	KING, PHILIP A.	2,958,153	LAURI, GEORGE NICHOLAS, III	3,099,478
JIANG, JING	3,045,933	KINIO, WALTER	3,151,391	LAUS, MARC CHRISTIAAN	3,139,407
JIANGSU ACADEMY OF AGRICULTURAL SCIENCES	3,171,644	KINIO, WALTER	3,151,398	LAW, CHE-LEUNG	2,963,720
JIANGSU HENGRUI MEDICINE CO., LTD.	2,978,976	KIRA, KAZUNOBU	3,004,623	LAWRENCE, DOUGLAS	3,224,654
JIANGSU NHWA PHARMACEUTICAL CO., LTD	3,172,692	KITTO, ALLYSON	3,018,050	LAWTON, KAY A.	3,003,742
JIN, YUN	2,988,338	KLINCK, MICHAEL	2,975,712	LAZIMY, YANIV	3,003,192
JING, PENG	3,172,692	KLINE, KOREY	3,147,229	LE BASTARD, LUDOVIC	3,036,973
JOHN WILSON, MAKESH PRAVIN	3,167,330	KLISCHAT, HANS-JURGEN	3,070,785	LE, QUYNHGIO N.	3,049,185
JOHNSON, BRICE A.	3,068,714	KNEAFSEY, BRENDAN	3,002,713	LECAULT, VERONIQUE	2,906,231
JONES, DANIEL T.	3,000,105	KNOLL, JAMES	3,101,665	LECLERC, DANIEL	2,794,103
JONES, FRANKLIN B.	3,000,105	KNOTH, ALEXANDRA	2,989,956	LEDWITH, DEIRDRE	3,002,713
JONES, MATTHEW A.	2,952,482	KO, KA FU	3,035,277	LEE, HYECK-HEE	3,027,580
JONES, NICHOLAUS A.	2,952,482	KOCIS, PETR	2,997,376	LEE, JANG UK	3,175,959
JONES, ROBERT	2,957,359	KOESTER, ANJA	3,112,763	LEE, JOHN JONG SUK	2,948,241
JOO, JAE HOON	3,211,556	KOHLER, ROBERT	3,115,010	LEE, JONG SUB	3,175,959
JOOST, CHAD	3,081,706	KOIKE, SEIJI	2,948,122	LEE, MOON BONG	3,175,959
JORDAN, LAWRENCE B.	2,918,765	KOLTENBAH, BENJAMIN E. C.	3,049,185	LEE, SO JIN	3,108,053
		KOMOROWSKI, JAMES R.	3,118,583	LEE, TAE KYUNG	3,211,556
		KONG, WEIYI	3,158,796	LEE, YAU-SHING	3,093,914
		KONG, YING	3,141,413	LEFKIMMIATIS, STAMATIOS	3,153,503
		KONISH, STEVEN P.	2,983,413	LEGGETT, JOHN ALBERT	2,957,858
		KOPINKE, FRANK-DIETER	3,115,010	LEHTO, KALLE	3,121,309
		KORANEX CAPITAL	3,094,406	LEI, GUAN-DAO	2,997,018
		KOREA ZINC CO., LTD.	3,211,556	LEI, YIBO	3,045,371
		KOSKELA, JARKKO	3,088,486	LEI, YUN	3,087,465
				LEIRIS, SIMON	3,056,815

Index of Canadian Patents Issued May 14, 2024

LEMKEN GMBH & CO KG	3,136,994	MA, XIANG	3,152,464	MELI, FABRIZIO	3,106,244
LEMO SA	3,221,752	MAAS, LUDGER	3,136,994	MEMOLI, FRANCESCO	3,006,147
LENNOX INDUSTRIES INC.	3,063,030	MACALLEN, TODD P.	3,033,389	MENDEZ, MAX PIERRE	3,147,229
LESSARD, CAROL	3,159,074	MACDON INDUSTRIES LTD.	3,106,744	MENGUAL BRICHS, LOURDES	2,900,022
LEWIS, THOMAS F.	3,172,200	MACDONALD, LYNN	3,124,228	MERTZ, JOSHUA	3,101,665
LG ELECTRONICS INC.	3,143,240	MACHADO, ANDRE	3,165,642	MESCO INC.	3,108,709
LI, FENG	3,139,349	MACHADO, MARCELLO		MESTERY, KYLE ANDREW	
LI, HONGJIAN	3,110,262	CORREA	3,099,478	DONALD	3,143,107
LI, HUI	2,989,956	MACKENZIE, KATRIN	3,115,010	METABOLON, INC.	3,003,742
LI, JIAN	3,045,933	MACLACHLAN, IAN	2,919,226	METAFINES.CO.LTD.	3,109,360
LI, QUXIANG	3,172,692	MACORETTA, FEDERICO	3,074,189	METSO OUTOTEC FINLAND	
LI, TINDY	2,988,338	MADDIPATLA, DINESH	3,010,835	OY	3,116,842
LI, YAN	3,141,413	MADINENI, NARAYANA		MFTB HOLDCO, INC.	3,144,033
LI, YINGYING	3,110,262	ADITYA	3,165,142	MFTB HOLDCO, INC.	3,154,186
LI, YU	3,122,129	MAGIC LEAP, INC.	3,011,377	MICHALKO, KELLY	3,159,074
LI, YUGUANG	3,144,033	MAHADEVAN, RAJAN	2,948,241	MICROVISION, INC.	3,074,628
LI, YUGUANG	3,154,186	MAHLER, MARKUS	3,027,580	MIDEA GROUP CO., LTD.	3,122,129
LIAO, KANG-SHYANG	2,967,755	MAIMAN, TYLER	3,163,214	MIL'SHIN, OLEG	
LIBERTI, MICHAEL, ANDREW	2,997,914	MAITY, DEBOTYAM	3,024,863	NIKOLAEVICH	3,118,678
LIBRIZZI, MICHAEL	3,178,196	MALIK, KEVIN F.	3,068,714	MILLER, DANIEL	3,163,214
LIDGARD, GRAHAM P.	3,002,196	MALIVERNEY, CHRISTIAN	3,068,123	MILLER, GARY MICHAEL	2,967,968
LIDOR, DANIEL	3,152,686	MALLINCKRODT		MILLER, SAMUEL A.	3,011,377
LIGHTBURN, BENJAMIN	3,173,030	PHARMACEUTICALS		MILLER, WILLIAM VERNON,	
LIM, HUN II	3,175,959	IRELAND LIMITED	3,135,254	III	2,967,968
LIM, KIAN HUAT	3,004,623	MALMBERG, KARL MAGNUS	3,172,033	MIMOUN, EMMANUEL	3,125,131
LIM, WANG SEOP	3,175,959	MANDERFIELD, GROVER	3,177,502	MIRACLE, GREGORY SCOT	3,106,244
LIN, FANGLING	2,971,725	MANDERNACH, JORDAN E.	2,980,566	MITCHELL, MATTHEW W.	3,003,742
LIN, PETER	3,011,993	MARBAN, EDUARDO	2,881,394	MITSUBISHI CHEMICAL UK	
LIN, SEN	3,201,615	MARCZYK, STANISLAW	2,949,903	LIMITED	3,132,622
LINDER, CHARLES	2,883,784	MARIOT, DAVID	3,068,123	MIYANO, MASAYUKI	3,004,623
LINDSAY, ROBERT		MARRS, THOMAS C.	2,997,918	MIZUHO ORTHOPEDIC	
MCGREGOR	3,169,290	MARSHALL ELECTRIC CORP.	2,997,918	SYSTEMS, INC	2,919,702
LISAINGO, KATHLEEN	2,906,231	MARTENS, KRISTOPHER	3,106,744	MOADDEL, TEANOOSH	3,018,131
LITSCHKO, BJORN	3,003,222	MARTIN, ALAN D.	2,919,226	MOBLEY, PAUL	3,031,940
LIU, BAOSHENG	3,171,644	MARTINERIE, FRANCIS	3,046,412	MOHAMADI, REZA	3,000,438
LIU, FENGWEI	3,049,493	MASERE, JONATHAN	2,982,465	MOINARD, CHRISTOPHE	2,923,705
LIU, GEORGE	3,093,914	MASHIACH, ADI	3,118,745	MOKKAPATI, ANUPAMA	2,957,359
LIU, HONGBIN	3,135,968	MASON, CHRISTOPHER W.	3,096,100	MOLLICK, PETER J.	3,158,056
LIU, JIAJIAN	2,978,976	MATIAS, JOVEN	3,159,028	MOLLOY, STEVE	2,794,103
LIU, JIANHUA	3,095,648	MATSUOKA, YOKY	3,148,411	MOLO DESIGN, LTD.	3,033,389
LIU, JIANHUA	3,118,227	MATTA, LISA A.	2,918,765	MOLONEY, JEREMY	3,026,380
LIU, KUN	3,127,397	MATTHEE, JOHANNES		MONSRUD, LEE	3,128,194
LIU, MAOQI	3,139,846	MARIA BAPTIST	3,209,067	MORAN, OLLWYN AGNES	3,023,759
LIU, NANGUO	3,165,682	MAUFORT, JOHN	3,109,300	MOREIRA MUNDIM, IRAM	3,098,256
LIU, SHENG-YUNG	3,020,933	MAYES, DUNCAN	2,998,467	MOREIRA REZECK, LAURA	3,098,256
LIU, XIANG	3,004,623	MAZoyer, SIMON	3,125,131	MORI, CRISTIAN	3,006,147
LIU, YAN-FEI	3,034,422	MCBRAYER, M. SEAN	3,147,229	MORIKAWA, MIWAKO	3,053,895
LOANE, MARK	3,002,713	MCCANN, STEPHEN	3,021,367	MORRISON, CHRISTOPHER	
LOG MAX AB	3,023,389	MCCARREN, MICHAEL JOHN	3,045,618	ROBIN	3,172,033
LONERGAN, SHAUN	3,003,742	MCCAULEY, TIMOTHY	2,980,289	MOSCOVITS, SHAHAR	3,043,683
LOSCHER, FRANK	3,036,306	MCCLEAN, JARROD RYAN	3,093,230	MOSKOVICH, DORON	3,043,683
LOZANO SALVATELLA, JUAN		MCCOLLOUGH, THOMAS W.	3,099,478	MOSKOVITS INVENTIONS	
JOSE	2,900,022	MCCOTTRY, II, JONATHAN		LTD.	3,043,683
LU, AIJUN	3,172,692	EDWARD	3,070,498	MOSS, RYAN	3,173,030
LU, QI	2,942,324	MCCULLOCH, BRYAN L.	3,165,682	MUEGGENBORG, BROCK	3,128,194
LUDOIS, DANIEL COLIN	2,994,204	MCCLEAN, LEIGH	3,165,142	MUEHLBACH, KLAUS	3,031,140
LUESICK, JEFF	3,175,835	MCWETHY, KYLE	3,107,810	MUELLER, CLAUDIA	3,114,728
LUMMUS TECHNOLOGY INC.	3,035,873	MCWHIRTER, JOHN	3,124,228	MUELLER, ROBERT	3,114,728
LUNDMARK, DAVID C.	3,011,377	MEAD, IVY	3,001,341	MUKHERJEE, AMITAV	3,154,554
LUO, TAO	3,167,330	MEBBERSON, NICHOLAS	3,053,420	MULLEN, DAVID	3,002,713
LUTRON TECHNOLOGY		MECCA, JODI M.	3,165,682	MUNTEANU, EUGEN	3,062,803
COMPANY LLC	3,110,739	MEEUSE, FREDERIK MICHIEL	3,065,404	MURAI, NORIO	3,004,623
LUXCAN INNOVATION S.A.	3,125,792	MEHTA, PAYAL	3,112,763	MURPHY, ANDREW J.	3,124,228
M.M.A. DESIGN, LLC	3,101,314	MELENDEZ, JENNY	3,163,214	MURPHY, ERIN	3,005,946

**Index des brevets canadiens délivrés
14 mai 2024**

MUSIK, CELINE	3,142,331	OPEN TEXT CORPORATION	2,794,103	PLASSER & THEURER	
MUTHUMANI, KARUPPIAH	2,930,695	OSEIR OY	3,143,311	EXPORT VON	
NAGAO, SATOSHI	3,004,623	OXITEC PARTICIPACAO E		BAHNBAUMASCHINEN	
NAGARAJA, SUMEETH	3,167,330	GESTAO DE ATIVOS NAO		GESELLSCHAFT M.B.H.	3,007,505
NAIR, HARIHARAN		FINANCEIROS LTDA.	3,038,687	PLEIGER MASCHINENBAU	
KRISHNAN	3,194,530	OZGIT, EMIN ALPER	2,744,442	GMBH & CO. KG	3,003,222
NAM, HYE YEONG	3,108,053	PAI, CHAUL MIN	3,109,360	PLESS, BENJAMIN	3,011,993
NAM, WOOSEOK	3,167,330	PAINE, RANDY	2,940,145	PLISKA, NATHAN	3,040,389
NANCARROW, LINSEY	3,005,946	PALACIOS, VANESSA	3,035,873	PLUMMER, ROBERT	3,070,785
NARAKATHU, BINU BABY	3,010,835	PALLIN, THOMAS DAVID	3,056,815	POLYMERIDIS, ATHANASIOS	3,153,503
NCHAIN HOLDINGS LIMITED	3,010,116	PALMER, JOE	3,177,502	POPPEHEIMER, TORI	2,979,876
NEFF-LAFORD, HALEY	2,963,720	PALMER, LORNE R.	2,919,226	POREE, FABIEN	2,884,895
NEHRING, ANDREW I.	3,000,105	PALMER, MATTHEW A.	3,147,229	POST, PHILLIP H.	3,126,115
NELSON, BRAD	2,906,231	PALOMARES, MARC	3,036,973	POTENZIANO, JIM	3,135,254
NEMOTO, TAKAYUKI	2,964,316	PALURI, SEETHAL	3,143,240	POTMAN, RONALD PETER	3,065,404
NESTE OYJ	3,121,309	PAN, ZHUO-HUA	2,942,324	POTTER, SCOTT CHARLES	3,112,763
NEUTRON THERAPEUTICS		PANASONIC INTELLECTUAL		POUDEL, PRABAL	3,089,744
LLC	2,983,413	PROPERTY		POUDINEH, MAHLA	3,000,438
NEUWAVE MEDICAL, INC.	3,003,192	MANAGEMENT CO., LTD.	3,128,517	POULAIN, ISABELLE	3,012,278
NEWMAN, ROBERT C., JR.	3,110,739	PANDA, DEBENDRA KUMAR	3,127,621	POULSEN, NIKOLAI	2,942,551
NGUYEN, THE VIET	3,115,010	PANOV, ANDREY		POWER, AIDAN	2,997,376
NIBCO INC.	3,096,100	VLADIMIROVICH	3,118,678	POZHAL VENGU, GURUNATH	3,194,530
NIELSEN, JULIE	2,906,231	PAPAGEORGIOU, ANTONIO	2,928,614	PRAJAPATI, SUDEEP	3,004,623
NING, HONGYAN	3,192,107	PARK, DU JIN	3,175,959	PRAVONG, BOUN	2,942,551
NINOMIYA, WATARU	3,132,622	PARK, EUNICE SUN	3,004,623	PRAVONGVIENKHAM,	
NISHIJIMA, RICK T.	3,074,189	PARK, SUN GI	3,044,217	KENNII	2,942,551
NIVON, THIERRY	3,036,973	PARK, WILLIAM H.	2,983,413	PRAXAIR S.T. TECHNOLOGY,	
NIZIOL, CHESTER STANLEY	3,115,337	PARRETT, DAVID J.	2,920,785	INC.	3,172,200
NOCHAM, ITAMAR	3,010,263	PATERSON, GORDON SCOTT	3,035,277	PRICE, JEFFREY ELLIS	3,127,621
NOKIA TECHNOLOGIES OY	3,088,486	PATRIOT RESEARCH		PRISSETTE, MARINE	3,127,814
NOMURA, HIDEAKI	3,136,298	CENTER, LLC	3,118,264	PROVENCHER, MARC	
NORRIS, MATTHEW ALLEN	3,123,018	PATSCH, CHRISTOPH	3,004,799	ANDREW	3,035,049
NORTON, DAVID	2,988,338	PAULSON-VU, LOAN	3,128,194	PRZESLAWSKI, BRIAN DAVID	3,045,618
NOVA CHEMICALS		PAUS, RALF	3,024,001	PSILO SCIENTIFIC LTD.	3,173,030
CORPORATION	2,989,212	PAZOLLI, ERMIRA	3,004,623	PURATAP PTY LTD	3,053,420
NOVALIQ GMBH	3,036,306	PCTEL, INC.	3,066,375	PYNNONEN, JANNE	2,998,467
NOVAMONT S.P.A.	3,025,290	PECCETTI, ERALDO	2,987,149	Q BIO, INC.	3,153,503
NOWAK, DAVID	3,040,389	PEDERSEN, LYKKE	3,004,799	QIU, QIANG	3,018,131
NOWBAHAR, ARASH R.	3,165,682	PELLE, AURELIE	3,068,123	QIU, YINLI	3,172,692
NUNEZ, GEORGE	3,147,229	PELTOLA, TIMO	3,143,379	QUALCOMM INCORPORATED	3,045,933
NUSCALE POWER, LLC	3,018,050	PENG, STANFORD	2,963,720	QUALCOMM INCORPORATED	3,167,330
NUTRITION 21, LLC	3,118,583	PENG, YANWEI	3,225,944	QUANTUM INNOVATIONS,	
NYXOAH SA	3,118,745	PEREZ, ERIC	3,063,030	INC.	3,126,115
O'KANE, RUAIRI	3,002,713	PEREZ, VICTOR ARINO	3,056,806	QUEEN'S UNIVERSITY AT	
O'SHEA, DARREN		PERLADE, ASTRID	3,142,331	KINGSTON	3,034,422
MACKENZIE	3,035,049	PETERS, CHERYL	2,884,895	QUINN AEROSPACE INC.	3,159,999
OBSHCHESTVO S		PETERS, JONATHAN	3,031,940	QUINN, STEVEN P.	3,159,999
OGRANICHENNOY		PETERS, MARK EDWIN	2,995,124	RABALAIS, CHRISTOPHER	
OTVETSTVENNOST'YU		PETERSON, BART D.	3,096,795	PAUL	2,744,442
"OBEDINENNAYA		PETERSON, BRIAN PATRICK	3,045,618	RACENET, DAVID	2,949,903
KOMPANIYA RUSAL		PETERSON, KEVIN	3,148,411	RADMAND, REZA	3,117,307
INZHENERNO-		PETRIV, OLEH	2,906,231	RAI STRATEGIC HOLDINGS,	
TEKHNOLOGICHESKIY		PETRMICHL, RUDOLPH	3,097,838	INC.	2,997,914
TSENTR"	3,118,678	PHARMOTECH SA	3,025,850	RALPH, JAMES M.	3,203,555
OCAS.	3,035,049	PHILIP MORRIS PRODUCTS		RANDALL, SHERRI LYNN	3,106,244
OCHSENFELD, GERHARD	3,074,631	S.A.	2,984,047	RANKEN, LISA	3,173,030
OCHSENFELD, MICHAEL	3,074,631	PHILIPP, THOMAS	3,007,505	RAPOWITZ, SAMUEL	3,163,214
OJO, ADEOLA FLORENCE	2,997,018	PHOTOCURE ASA	3,008,555	RASMUSSEN, SOREN	
OKADA, YOSHIHIRO	3,128,517	PIMENTEL ITAPEMA ALVES,		VESTERGAARD	3,004,799
OKAMOTO, TAKESHI	2,964,316	CARINA	3,098,256	RATANI, TANVI S.	3,165,682
OMYA INTERNATIONAL AG	3,050,057	PIMENTEL ITAPEMA ALVES,		RAYTHEON COMPANY	3,107,337
ONDRUS, ZDENEK	2,996,037	VIVIANE	3,098,256	RAZA, SYED KHALID	3,071,801
ONO, TATSUJI	3,128,517	PITCHER, JASON	3,142,098	REACTIVE TECHNOLOGIES	
OOSTERHOF, HARALD	3,057,755			LIMITED	3,143,379

Index of Canadian Patents Issued May 14, 2024

RECOVER ENERGY SERVICES INC.	3,005,062	SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION	3,124,967	SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD.	2,978,976
REFRATECHNIK HOLDING GMBH	3,070,785	SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION	3,125,131	SHANGHAI TECH UNIVERSITY	3,141,413
REGAL BELOIT AMERICA, INC.	3,024,582	SAKASE, TAKAO	2,983,413	SHANXI LINGXUDA TECHNOLOGY CO., LTD	3,225,944
REGENERON PHARMACEUTICALS, INC.	3,124,228	SALAHUN, ERWAN	2,962,212	SHARP, BRIAN	3,081,706
REGENERON PHARMACEUTICALS, INC.	3,127,814	SALEHI, IRAJ	3,024,863	SHARPE, JOHNATHAN CHARLES	3,029,050
REHRIG PACIFIC COMPANY	2,958,153	SALGAONKAR, NEHA	3,018,131	SHEN, BO	3,018,131
REICHMUTH, RICHARD	3,070,498	SAM DONG CO., LTD.	3,044,217	SHENG, ZEJUAN	3,132,895
REID, STEPHEN P.	2,919,226	SAMAIN, JACQUES OLIVIER	3,132,644	SHENZHEN CARKU TECHNOLOGY CO., LIMITED.	3,087,465
REN, CHAOWEI	3,141,413	SAMYANG HOLDINGS CORPORATION	3,108,053	SHENZHEN MICROBT ELECTRONICS TECHNOLOGY CO., LTD.	3,192,107
REN, QICHAO	3,225,944	SANDER, TAMARA J.	3,002,196	SHENZHEN PREGENE BIOPHARMA CO. LTD.	3,110,262
REN, QINGYUN	3,045,371	SANGHERA, ALISHA	3,035,049	SHI, CONG	3,118,227
REOXCYN, LLC	2,958,011	SANTOS, TYLER CHRISTOPHER	3,123,018	SHI, GANG	3,117,808
RESEARCH TRIANGLE INSTITUTE	3,031,940	SANTROCK, ROBERT D.	2,998,481	SHIAO, TZE CHIEH	3,094,406
REYES, JOSE N., JR.	3,018,050	SARGENT, EDWARD	3,000,438	SHIMAN, DMITRYI	3,031,140
RIBAL CAPARROS, MARIA JOSE	2,900,022	SASAOKA, HIDETOSHI	3,135,438	SHIMIZU, SATOSHI	3,136,298
RICHARDS, KURT	2,958,011	SATHIOSATHAM, MUHUNTHAN	3,165,682	SIDESHIFT INC.	3,016,529
RICICOVA, MARKETA	2,906,231	SAVANAH, STEPHANE	3,010,116	SIMARD, CHARLES-OLIVIER	2,794,103
RIPD IP DEVELOPMENT LTD	2,958,964	SAVOX COMMUNICATIONS OY AB (LTD)	3,022,771	SINGH, ANU	3,159,028
RIVERA, CARLOS	3,147,229	SAXONOV, SERGE	3,216,609	SINGH, PARAMJIT	3,127,621
ROBERTO, CARLO	3,016,503	SCALLEY, MATTHEW	3,005,062	SINGHAL, ANUPAM	2,906,231
ROBERTO, MARCO	3,016,503	SCANLAN, SEAN F.	2,998,481	SIOO FARGKULTUR AB	3,008,748
ROBINSON, SHAWN MAURICE	3,035,049	SCHANING, MATT	3,003,192	SKF MAGNETIC MECHATRONICS	2,962,212
ROCHEFORT, RUDY	3,151,391	SCHFELKER, RICHARD W.	3,003,192	SLADEK, PETR	2,996,037
ROCHEFORT, RUDY	3,151,398	SCHELHAAS, KARL-PETER	2,994,782	SLOBODYANYUK, EDUARD ANDREEVICH	3,118,678
RODRIGUES FERNANDES, SARAH	3,098,256	SCHMIDT, MICHAEL	2,918,765	SLOO, DAVID	3,148,411
ROGALSKY, DOUG	3,106,744	SCHMITT, FRITZ	3,125,792	SMALL, WILLIAM L.	3,099,478
ROGERS, MATTHEW L.	3,148,411	SCHNEIDER, KEVIN MICHAEL	3,035,049	SMED, MOGENS	2,978,206
ROGERS, PETER G.	3,091,908	SCHOUTEN, LAURA	2,884,895	SMICK, THEODERE H.	2,983,413
ROHM AND HAAS COMPANY	3,165,682	SCHROEDERMEIER, ANDY LEE	2,994,204	SMIRNOV, ANDREY ANDREEVICH	3,118,678
ROJAS, MARIO ROBERTO	2,987,773	SCHULTHEIS, ERIC	3,201,972	SMITH, CHARLES TIMOTHY	3,151,588
ROSENBERG, BRAD	3,035,277	SCHULTZ, WILLIAM ALLEN JR.	3,181,281	SMITH, KEVIN W.	3,147,229
ROSENBLUTH, KATHRYN H.	3,011,993	SCHWARTZ, JOE	2,989,956	SMITH, MICHAEL D.	3,024,582
ROTHENBUHLER, MARTIN	2,974,262	SCODRO, SANDRO ANTONIO	3,038,687	SMITH, PAUL	3,081,706
ROUSEY, CHRISTOPHER STEPHAN	3,099,478	SCOTT, GLENN CARTER	3,093,911	SMITH, PETER G.	3,004,623
ROUSSELOT BV	3,179,000	SCOVILLE, ANTHONY C.	3,026,092	SMITH, THOMAS WILLIAM	3,132,052
ROY, RENE	3,094,406	SEAGEN INC.	2,963,720	SMITH, W. BRET	2,998,481
ROZMAN, ROBERT	2,958,964	SEARS, STEPHEN, BENSON	2,997,914	SNAP-ON INCORPORATED	3,114,387
RUBESA, TINO	3,209,067	SEKINE, KIYOSHI	3,137,287	SOCIETE DES PRODUITS NESTLE S.A.	2,923,705
RUDICK, ARTHUR G.	2,995,948	SEMINUCLEAR, INC.	3,043,998	SOGA, TETSUNORI	3,030,228
RUHL, LYN ERIC	3,101,314	SENSEAIR AB	2,990,947	SOHLSTROM, HANS	2,990,947
RUIZ, DIANA ISABEL	3,112,763	SENTRY EQUIPMENT CORP.	3,040,389	SONDEREGGER, RALPH L.	3,096,795
RUPAR, CHARLES ANTHONY	3,169,290	SENYUTA, ALEKSANDR SERGEEVICH	3,118,678	SONG, XIAOLING	3,141,413
RUSSELL, NICHOLAS JAMES	3,021,367	SEPTIMUS, DAVID	3,163,214	SONG, ZONGPEI	3,110,262
SAFRAN PASSENGER INNOVATIONS, LLC	3,056,806	SERATE, DUANE	3,175,835	SPACHTHOLZ, FRANZ XAVER	3,117,808
SAIKA, MASAYUKI	2,980,991	SETLUR, VIDYA RAGHAVAN	3,115,268	SPECIALBANDAGER.DK A/S	3,011,268
SAINCT, HERVE	3,046,412	SEVEN SONS LTD. R.N. 515985570 (THE "COMPANY")	3,049,008	SPELBRINK, ROBIN ERIC JACOBUS	3,139,407
SAINT-GOBAIN CERAMICS & PLASTICS, INC.	3,203,555	SHAFFER, RANDALL	2,926,835	SPOLCHEMIE ZEBRA, A.S.	2,996,037
SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION	3,077,512	SHAHAL, AVNER	3,010,263	SPR THERAPEUTICS, INC.	3,153,124
				SPRAYING SYSTEMS CO.	3,091,661

**Index des brevets canadiens délivrés
14 mai 2024**

SPROUL, RICHARD	3,117,808	THE BOARD OF TRUSTEES OF	TREACE MEDICAL	
SPRYNSKI, NICOLAS	3,056,815	WESTERN MICHIGAN	CONCEPTS, INC.	2,998,481
SSAB TECHNOLOGY AB	3,117,066	UNIVERSITY	TREACE, JOHN T.	2,998,481
SST SYSTEMS, INC.	3,026,092	THE BOEING COMPANY	TREESH, SALEM	3,169,290
ST-ARNEAULT, ERIC	2,999,730	THE BOEING COMPANY	TRUE CONCEPTS MEDICAL	
STANDLEY, STEVE	2,991,041	THE CLEVELAND CLINIC	TECHNOLOGIES, LLC	3,058,118
STANGO, TIM	3,159,070	FOUNDATION	TSAI, CHIH-WEI	3,146,605
STAPLES, INC.	3,066,261	THE COCA-COLA COMPANY	UENO, NORIEDA	2,980,991
STEINFELD, UTE	3,027,580	THE COMMONWEALTH OF	UMICORE	3,057,755
STEMME, GORAN	2,990,947	AUSTRALIA	UNETICH, MICHAEL	3,152,686
STENGER, PATRICK		THE GOVERNING COUNCIL	UNIFRAX I LLC	3,094,306
CHRISTOPHER	3,106,244	OF THE UNIVERSITY OF	UNILEVER GLOBAL IP	
STEWART & STEVENSON LLC	3,081,706	TORONTO	LIMITED	3,018,131
STOD, REETA-MARIA	2,998,467	THE HILLMAN GROUP, INC.	UNILEVER IP HOLDINGS B.V.	3,209,067
STONE, JEREMY LEE	3,181,281	THE LUBRIZOL	UNITIWALL CORPORATION	3,075,824
STORA ENSO OYJ	2,998,467	CORPORATION	UNIVERSITE DE LORRAINE	2,981,402
STOUT, MARTY L.	3,096,795	THE LUBRIZOL	UNIVERSITY OF HOUSTON	
STRACK, STEFAN	3,127,646	CORPORATION	SYSTEM	2,967,755
STRESSING, DAVID		THE PROCTER & GAMBLE	UPFIELD EUROPE B.V.	3,065,404
WINFIELD	3,077,512	COMPANY	USTAV HEMATOLOGIE A	
STRICKLAND, MICHAEL R.	3,075,824	THE TORONTO-DOMINION	KREVNI TRANSFUZE	3,165,065
STROHL, PHILIPPE	3,148,140	BANK	VACCARO, ABRAM MICHAEL	3,002,196
STRONG, SCOTT	2,975,712	THE TORONTO-DOMINION	VAIDYA, MAULIK	3,154,554
SUBRAMANIAN, RAMESH	3,099,478	BANK	VAJDA, ZOLTAN TAMAS	3,090,310
SULJEVIC, ADNAN	3,123,018	THE TRUSTEES OF THE	VAN DER MERWE, SHAWN	3,175,835
SUMITOMO HEAVY		UNIVERSITY OF	VAN DONGEN, GRAEME	3,175,835
INDUSTRIES, LTD.	2,980,991	PENNSYLVANIA	VAN MALSSSEN, KEES	
SUN, NING	3,141,413	THE UNIVERSITY OF BRITISH	FREDERIK	3,065,404
SUNSHINE LAKE PHARMA		COLUMBIA	VAN RIJSWICK, RUDOLFUS	3,104,857
CO., LTD.	3,045,371	THE UNIVERSITY OF BRITISH	VAN ROOYEN, PIETER	3,178,196
SUTTON, JONATHAN MARK	3,056,815	COLUMBIA	VANDERBILT CHEMICALS,	
SUTTON, MICHAEL R.	3,004,834	THEISS, GEORG	LLC	3,141,033
SUZUKI, TAKASHI	2,985,922	THIEL, MATTHEW	VASGAARD, AARON J.	2,952,482
SYNEDGEN INC.	2,906,682	THOM, MARK	VASILENKO, IRINA	3,031,140
SZCZESNY, PIOTR JAN	3,114,728	THOMAS, MICHAEL P.	VECCHINI, NICOLA	3,139,194
SZYMANSKI, THOMAS	3,203,555	THOMPSON, MATTHEW J.	VEDHOLM, JONAS	3,048,080
TABLEAU SOFTWARE, LLC	3,115,268	THOMSON, JAMES A.	VELASQUEZ OCHOA,	
TAFTEH, REZA	2,991,920	THREEBOND CO., LTD.	JULIANA	3,139,194
TAIYUAN UNIVERSITY OF		TIEMANN, DAVID	VELLMER, CARSTEN	3,070,785
TECHNOLOGY	3,225,944	TIITTA, MARJA	VENTOLA, MIKA	3,143,379
TAKAHASHI, RYU	3,136,298	TINSLEY, DOUGLAS	VENTURA, GABRIELLE	2,923,705
TAKEDA, TSUBASA	3,135,438	MONROE	VERGAUWEN, BJORN	3,179,000
TAKEHANA, TOSHIHIKO	2,948,122	TIPTON, CHRISTOPHER	VERMANDEL, EVERT	3,209,067
TALASAZ, AMIRALI	2,983,833	ALLEN	VERSALIS S.P.A.	3,139,194
TALWAR, TINA	2,942,551	TISDALL, MARK	VIBERG, JAN OLOF	3,172,033
TAN, BARRIE	3,079,538	TIVITMAHAISOON,	VILLEMOS, LARS	3,140,749
TANAKA, KOYA	3,128,517	PARCHAREE	VINCENT, PAUL R.	3,004,834
TANG, AOLIN	3,118,932	TJALMA, LIBBE FOEKES	VIRBAC CORPORATION	2,991,041
TANG, CHANGHUA	3,045,371	TOBERMAN, RICHARD A.	VOIN, PETER	3,126,115
TANG, VIVIAN W.	3,093,914	TOLAR, MARTIN	VOJDANI, ARISTO	2,964,555
TAO, WEIKANG	2,978,976	TOLLET, JEROME	VOLUTROL INC.	3,169,290
TARIDE, SERGE	3,046,412	TONER, CHRISTOPHER M.	VUTUKURI, ESWAR	2,985,922
TAYLI, DORUK	3,153,503	TORST, JOHANNA	VUTUKURI, ESWAR	3,056,318
TAYLOR, BARRY R.	3,128,194	TOSI, IRENE	VYORAL, DANIEL	3,165,065
TAYLOR, JAMES H. JR.	3,181,281	TOWNSEND, STACY M.	WACHLI, SERENE	2,942,551
TAYLOR, ROBERT J.	2,952,482	TRADING TECHNOLOGIES	WADE, DENA	3,177,502
TEALE, DAVID W.	3,181,281	INTERNATIONAL, INC.	WAKE FOREST UNIVERSITY	
TELLIER, BRUNO	2,962,212	TRANSTHERA SCIENCES	HEALTH SCIENCES	3,001,341
TENNY, NATHAN EDWARD	3,088,457	(NANJING), INC.	WALMART APOLLO, LLC	2,952,482
TENOVA S.P.A.	3,006,147	TRANVOUEZ-BERNARDIN,	WANG, ALEXANDER	2,967,755
TENREIRO, ANA	3,100,354	DELPHINE	WANG, BIAO	3,152,228
TERRY, ANDREW J.	3,096,100	TRAPEZNIKOV, VLADIMIR	WANG, BIN	3,096,795
THALES	3,046,412	BORISOVICH	WANG, CHIH-HSIEN	3,146,605
			WANG, GANG	3,066,375

**Index of Canadian Patents Issued
May 14, 2024**

WANG, HULIN	3,225,944	WU, FRANK	3,132,895	ZHANG, JIAN	3,158,796
WANG, JIAN	3,088,457	WU, GUOSHENG	3,172,692	ZHANG, JIANSHUI	3,141,413
WANG, JOHN	3,004,623	WU, JIANGYING	2,940,145	ZHANG, JISHUAI	3,110,262
WANG, LIONEL	3,096,795	WU, JUAN	3,225,944	ZHANG, JUE	3,109,300
WANG, XIAO FENG	3,167,330	WU, XIUFENG	3,112,763	ZHANG, KAI	3,135,968
WANG, YEJUN	3,045,371	WU, YUEFENG	3,192,107	ZHANG, LI	3,135,968
WANG, YIFANG	2,978,976	WULFF, JACOB	3,003,742	ZHANG, LI	3,137,163
WARN INDUSTRIES, INC.	2,982,985	WURTH, CHRISTINE	3,114,728	ZHANG, LIANSHAN	2,978,976
WARREN, ROGER WILLIAM		XIAMEN FENGTAO		ZHANG, LING	2,978,976
ROLFE	3,008,555	CERAMICS CO., LTD	3,139,846	ZHANG, SHUANG	3,172,692
WAYNE STATE UNIVERSITY	2,942,324	XIE, DAN	2,997,018	ZHANG, XI	3,049,493
WEATHERFORD		XIONG, ZHAORONG	3,139,846	ZHANG, XINGZHE	3,010,835
TECHNOLOGY		XU, CHANGLONG	3,045,933	ZHANG, XUAN	3,158,796
HOLDINGS LLC	3,181,281	XU, DEJIN	3,171,644	ZHANG, YANSHI	3,047,284
WEATHERMAN, INC.	3,070,498	XU, GUANGCHUN	3,171,644	ZHANG, YIHUA	2,997,018
WEBB, NICK	3,148,411	XU, JIZHENG	3,135,968	ZHANG, YINGJUN	3,045,371
WEI, CHAO	3,045,933	XU, JIZHENG	3,137,163	ZHANG, ZHEN	2,978,976
WEI, LING FENG	3,159,028	XU, KAI	3,118,932	ZHANG, ZHIFENG	3,087,465
WEINER, DAVID B.	2,930,695	XU, LU	3,171,644	ZHAO, CHUNQING	3,171,644
WEIR MINERALS		XU, MINGHUI	3,049,493	ZHAO, JIE	3,143,240
NETHERLANDS B.V.	3,104,857	XU, XIANGQING	3,172,692	ZHAO, JUN	3,171,644
WELL STONE CO.	2,964,316	YAMIN, FEREIDOUN	3,035,873	ZHAO, RUNHUA	3,162,923
WELLS, IAN	3,143,107	YAN, FENG	3,225,944	ZHAO, SONG	3,172,692
WENDLER, IAN	2,982,985	YAN, HONGXING	2,988,338	ZHAO, YONGHONG	3,057,069
WETTLING, THOMAS	3,031,140	YAN, JIAN	2,930,695	ZHENG, GUO ZHU	3,004,623
WHITELEY, TUDOR		YANG, HAITAO	3,152,464	ZHOU, YUEDONG	3,141,413
ALEXANDER	3,035,049	YANG, JING	2,963,720	ZHU, AIDAO	3,078,544
WI-TRONIX, LLC	2,918,765	YANG, NING	3,118,227	ZHU, WEIJIA	3,137,163
WIESMANN, WILLIAM P.	2,906,682	YANG, WEIWEI	3,127,397	ZHU, XIAOHUA	3,139,846
WILLIAMSON, CARLA M.	3,096,100	YANG, XI	3,045,616	ZIOLKOWSKI, DAVID P.	2,979,876
WILLIAMSON, MICHAEL		YANG, XI	3,045,618	ZOETIS SERVICES LLC	3,127,621
ARMAN	3,035,049	YANG, XIAOBAO	3,141,413	ZOITOS, BRUCE	3,094,306
WILSON, CHRISTOPHER		YANG, ZUOXING	3,192,107	ZTE CORPORATION	3,127,397
BRANT	2,989,956	YAO, CHUTING	3,088,457		
WINTHER, KJELL	3,116,842	YAU, PIERCY	3,074,189		
WIRSING, HOLGER	3,070,785	YAWORSKI, EDWARD D.	2,919,226		
WISCONSIN ALUMNI		YEATES, RANDALL			
RESEARCH		CLAYTON	3,203,555		
FOUNDATION	2,994,204	YI, KAI	3,045,371		
WISCONSIN ALUMNI		YIN, JUNJUN	3,045,371		
RESEARCH		YOKOYAMA, WAKI	3,132,797		
FOUNDATION	3,109,300	YOON, JIN YOUNG	3,175,959		
WISE, MEGAN	2,930,695	YOON, SEONG JUN	3,010,565		
WITCHER, DERRICK RYAN	3,112,763	YOON, SEONG WON	3,175,959		
WIXSON, LAMBERT E.	3,154,186	YOSHINO, YURIKO	3,053,895		
WM INTELLECTUAL		YOUNG, GORDON PETER	3,056,318		
PROPERTY HOLDINGS,		YU, JAY JIE-BING	3,159,028		
L.L.C.	2,960,305	YU, JEREMY	2,997,376		
WOHLGENANNT, HERBERT	3,059,266	YU, LIHUA	3,004,623		
WOHLGENANNT, HERBERT	3,062,522	YU, MINQUAN	3,172,692		
WONG, SERENA HANYING	3,011,993	YU, XIANGYI	3,139,846		
WONG, WING TUNG	3,093,914	YUE, WENYONG	3,217,859		
WOOD, MARK	2,919,226	YUN, MIN HYUK	3,108,053		
WOODS, MICHAEL J.	3,011,377	ZAHN, HANS	2,906,231		
WOODWORTH, RICHARD P.	3,165,682	ZAMBROWICZ, BRIAN	3,127,814		
WOOLEY DE MENDONCA		ZANTINGE, ANNE	3,209,067		
FILHO, ROBERT		ZENG, FANWEN	3,165,682		
FREDERIC	3,098,256	ZENG, XI	3,075,509		
WOOLFORD, ALISON JO-		ZERPA UNDA, JESUS			
ANNE	2,988,338	ENRIQUE	3,017,022		
WORGULL, MARTIN	3,114,728	ZHA, WEI	3,066,375		
WOSZIDLO, SILKE	3,115,010	ZHANG, BUWEN	3,225,944		
WRIGHT, CRAIG STEVEN	3,010,116	ZHANG, HAOYING	2,978,976		
WROBEL, PETER	3,002,713	ZHANG, JIA	3,079,538		

Index of Canadian Applications Open to Public Inspection

April 28, 2024 to May 4, 2024

Index des demandes canadiennes mises à la disponibilité du public

28 avril 2024 au 4 mai 2024

ACCESS CREDIT LEASING INC.	3,180,307	BENTLEY, IAN	3,217,903	CHOI, YOUNG JIN	3,212,997
AFTON CHEMICAL CORPORATION	3,217,954	BERKOWITZ, YERUCHAM	3,208,855	CIRIK, ALI CAGATAY	3,218,764
AGCO CORPORATION	3,206,415	BERTKE, PATRICK JOSEPH	3,211,511	CIRIK, ALI CAGATAY	3,218,930
AGCO CORPORATION	3,206,419	BERTKE, PATRICK JOSEPH	3,211,534	CLARK, CHRISTOPHER	
AGCO CORPORATION	3,206,426	BERTKE, PATRICK JOSEPH	3,216,631	ROLLAND	3,211,511
AGUILAR ESCALANTE, RODOLFO	3,218,546	BERTKE, PATRICK JOSEPH	3,217,884	CLARK, CHRISTOPHER	
AKCAYOZ, ERAY	3,218,068	BERTKE, PATRICK JOSEPH	3,217,949	ROLLAND	3,211,534
AKCAYOZ, ERAY	3,218,076	BETTLE, GRISCOM, III	3,218,376	COMCAST CABLE	
AKCAYOZ, ERAY	3,218,324	BINNIG, CARSTEN	3,203,349	COMMUNICATIONS, LLC	3,218,438
ALEMAN VAZQUEZ, LAURA OLIVIA	3,218,546	BITSCH, MAGALI	3,198,126	COMCAST CABLE	
ALONSO MARTINEZ, FERNANDO	3,218,546	BLACKBERRY LIMITED	3,212,371	COMMUNICATIONS, LLC	3,218,762
AMATO, DAHLIA	3,218,207	BLAIN-MORAES, STEFANIE	3,181,276	COMCAST CABLE	
AMERL, ZRINKO	3,180,611	BLAIS, PIERRE PIERRE	3,212,371	COMMUNICATIONS, LLC	3,218,764
AMIRI, RAMIN	3,216,116	BOMBARDIER		COMCAST CABLE	
ANCHEYTA JUAREZ, JORGE	3,218,546	RECREATIONAL PRODUCTS INC.	3,198,126	COMMUNICATIONS, LLC	3,218,766
ANDERSON, STEVE	3,218,094	BOMBARDIER		COMCAST CABLE	
ANNIS, KYLE GARY	3,218,794	RECREATIONAL PRODUCTS INC.	3,217,156	COMMUNICATIONS, LLC	3,218,928
ANTHONY, JOSHUA	3,217,950	BOMBARDIER		COMCAST CABLE	
ARMSTRONG WORLD INDUSTRIES, INC.	3,217,913	RECREATIONAL PRODUCTS INC.	3,217,709	COMMUNICATIONS, LLC	3,218,930
ARNAERT, ANTONIA	3,182,770	BOONE CABLE WORKS & ELECTRONICS, INC.	3,218,243	COMCAST CABLE	
ARRIVAL ENERGY SOLUTIONS INC.	3,206,402	BORDELEAU, ERIC	3,218,731	COMMUNICATIONS, LLC	3,219,069
ARTIUCH, ROMAN LEON	3,218,720	BORKGREN, STANLEY R.	3,217,731	COMEAU, LAURIER E.	3,206,402
AVAN MOBILITY INC.	3,218,860	BOULERICE, PASCALE	3,218,731	COMFITPRO (PTY) LTD	3,180,586
AVASTHI, RAHUL	3,217,903	BOUSQUET, MICHEL	3,217,904	COMMUNICATION	
AYOTTE, MAXIME	3,231,199	BRAGA, GABRIEL TEIXEIRA	3,217,893	COMPONENTS ANTENNA INC.	3,217,483
B & W CUSTOM TRUCK BEDS, INC.	3,217,535	BRUBACHER, ADRIAN	3,180,596	CONNECTED SENSORS LLC	3,181,277
BADAL-BADALIAN, ARNOLD	3,218,568	BRUCE, STEPHEN EDMUND	3,216,050	CONNECTED SENSORS LLC	3,207,337
BAEK, SEUNG BONG	3,218,568	BRUNET, SIMON	3,181,277	CONRAD, CHRISTOPHER	
BAKEWELL, SUZANNE	3,218,376	BRUNET, SIMON	3,207,337	MICHAEL	3,217,898
BANG, TIEMO	3,203,349	BRUNOT, PASCAL	3,217,657	COPERION GMBH	3,218,199
BAPTISTE, DARREN	3,218,535	CAE INC.	3,231,199	COUTET, LAURA	3,217,854
BAROTE, VISHNU BHAGAWAN	3,218,025	CAMPBELL, ELLSWORTH MARVIN, III	3,218,020	COUTU, MICHEL	3,180,307
BARRETTE OUTDOOR LIVING, INC.	3,211,511	CAO, YANSHUAI	3,217,298	CRAINIC, CRISTINA	3,217,951
BARRETTE OUTDOOR LIVING, INC.	3,211,534	CAO, YANSHUAI	3,217,300	CRANE, ALEX	3,216,646
BARRETTE OUTDOOR LIVING, INC.	3,216,631	CAPITAL ONE SERVICES LLC	3,217,688	CRYSTAL, ADAM	3,218,949
BARRETTE OUTDOOR LIVING, INC.	3,217,705	CARKNER, KEVIN	3,218,949	CUNNINGHAM, MARK	3,218,068
BARRETTE OUTDOOR LIVING, INC.	3,217,884	CARPENTIER, GUILLAUME	3,217,954	CUNNINGHAM, MARK	3,218,076
BARRETTE OUTDOOR LIVING, INC.	3,217,949	CAUCHI, BRIAN	3,181,326	CUNNINGHAM, MARK	3,218,324
BAYKAS, TUNCER	3,218,762	CAUCHI, BRIAN	3,218,469	CZARNECKI, NEIL A.	3,182,177
BEAUTIFUL WINDOW FASHIONS CO., LTD.	3,181,323	CAVALERI HEALTH, INC.	3,213,893	DAON TECHNOLOGY	3,208,328
		CAVALERI, FRANCO	3,213,893	DAUB, SALLY JEAN	3,217,532
		CERTAINTED GYPSUM, INC.	3,218,207	DE LA HOZ, DAMIEN	3,217,823
		CHAND, SRI JAGDESH	3,218,025	DEBE, ZOUMANAN	3,182,770
		CHAPA MONTEMAYOR, DANIEL	3,214,097	DEERE & COMPANY	3,210,308
		CHEN, CHUHAN	3,216,116	DEERE & COMPANY	3,210,322
		CHEN, TZU-CHUN	3,201,027	DEERE & COMPANY	3,210,326
		CHEN, YUNG-SHUN	3,201,027	DEERE & COMPANY	3,210,523
		CHOI, JOSEPH	3,218,572	DEERE & COMPANY	3,213,306
		CHOI, JUNG HOON	3,218,363	DEERE & COMPANY	3,214,097
				DEERE & COMPANY	3,215,018
				DELTA OIL TOOLS LIMITED	3,217,731
				DERHAM, MICHAEL	3,216,050
					3,217,834

**Index of Canadian Applications Open to Public Inspection
April 28, 2024 to May 4, 2024**

DESANTIS, BROOKE ERIN	3,181,422	GRAEBNER, ADAM PAUL	3,218,720	KANG, SHIN PIL	3,212,997
DESENA, MICHAEL D.	3,180,962	GRAHAM, BRETT S.	3,215,018	KASSA, GETACHEW	3,180,962
DESMET, LAURENT	3,231,199	GRANT, KYRA	3,218,535	KEELER, AMY	3,217,950
DESMEULES, ALAIN	3,181,422	GREENSHIELDS, DAVE	3,215,150	KELL, CURTIS N.	3,182,177
DINAN, ESMAEL HEJAZI	3,218,762	GRUEN, SARAH CATHERINE	3,217,896	KELLY, FRANCIS	3,198,620
DINAN, ESMAEL HEJAZI	3,218,764	GUNTIMADUGU, SURAJ RAJU	3,216,116	KHAN, KALIMULLA	3,217,961
DINAN, ESMAEL HEJAZI	3,218,766	GUPTA, PUNEET	3,218,020	KHORASI, SAMAN NOOR	3,217,905
DINAN, ESMAEL HEJAZI	3,218,928	GURSKI, CLAYTON D. J.	3,216,010	KHURANA, PRERNA	3,216,116
DINAN, ESMAEL HEJAZI	3,218,930	H.J. HEINZ COMPANY		KIBLER, MATTHEW E.	3,218,277
DING, JIEMING	3,198,492	BRANDS LLC	3,217,905	KILSDONK, DANIEL	3,217,962
DION, RICHARD	3,217,912	HANWHA CORPORATION	3,212,997	KIM, GA YEONG	3,218,363
DOERR, JENNIFER	3,218,458	HARMON, ANDREW W.	3,217,731	KIM, JEONGKI	3,218,762
DORGE, MAURICE	3,180,359	HARR, JOSEPH P.	3,218,369	KIM, TAEHUN	3,218,764
DRENTH, CHRISTOPHER	3,180,596	HARR, JOSEPH P.	3,218,383	KIM, TAEHUN	3,218,766
DROPBOX, INC.	3,218,790	HARR, JOSEPH P.	3,218,393	KING, VICKI	3,218,383
DUCLOS, CATHERINE	3,181,276	HART, COLIN	3,217,688	KING, VICKI	3,218,393
DUFORD, JEREMIE	3,217,709	HARVEY, BRIAN N.	3,218,369	KING, VICKI	3,218,419
DUNDEE SUSTAINABLE		HARVEY, BRIAN N.	3,218,383	KING, VICKI	3,218,424
TECHNOLOGIES INC.	3,180,629	HARVEY, BRIAN N.	3,218,393	KING, VICKI	3,218,369
DUROCHER, ERIC S.	3,218,364	HARVEY, BRIAN N.	3,218,419	KOREA ATOMIC ENERGY	
DUROCHER, ERIC S.	3,218,373	HARVEY, BRIAN N.	3,218,424	RESEARCH INSTITUTE	3,218,363
DUTKIEWICZ, KRIS	3,218,774	HAYES, LALANIA	3,218,376	KOWIEL, KRZYSZTOF	3,217,906
DYNAMAX DRILLING TOOLS		HENSCHEL-STEINAU, INC.	3,180,962	KRISHNAN, GANESH	3,209,801
INC.	3,180,354	HERITAGE, CHRISTOPHER J.	3,217,705	KUHN SAS	3,215,657
EATON INTELLIGENT POWER		HEYN, JOHANNES	3,218,199	KUMBHAR, NILESH	3,215,018
LIMITED	3,217,893	HOLLAND, EMMA ARTHUR	3,218,535	KUNDU KASTURI	3,216,116
EDWARDS, TRAVIS	3,218,857	HONEYWELL		KWADE, ARNO	3,218,199
EKKART, ALEXANDER	3,211,019	INTERNATIONAL INC.	3,217,903	KYNETIC ENERGY	
ELECTRICITE DE FRANCE	3,217,854	HONEYWELL		SOLUTIONS INC.	3,180,359
ELECTRICITE DE FRANCE	3,217,888	INTERNATIONAL INC.	3,217,961	LABRY, PIERRE-JACQUES	3,212,431
ENGLISH LOGISTICS INC.	3,218,852	HONG, JONGWOO	3,218,764	LAFLAMME LUSSIER, KARL	3,198,126
ENGLISH, JAMES DAVID	3,218,852	HORN, TRISTAM PAUL	3,216,050	LAGOS GALVAN, FLAVIO	
FALLONE, ALANNA		HOSHINO, HIDETAKA	3,217,954	AMERICO	3,218,546
PATRICIA	3,217,905	HU, JIANQUAN	3,217,808	LALANCETTE, JEAN-MARC	3,180,629
FANG, JIAFU	3,211,320	HUANG, SZU-CHANG	3,181,323	LANANTE, LEONARDO	
FARR, THOMAS A.	3,217,893	HUGHES, JOHN E.	3,217,913	ALISASIS	3,218,762
FAUVET, JEREMY	3,217,823	HUI, BING	3,218,764	LAROSE, BENOIT	3,198,126
FHE USA LLC	3,218,277	HUI, BING	3,218,928	LARROUY, REMI	3,217,156
FIEDLER, MARKUS	3,218,199	HUI, SHIQIANG	3,217,808	LATHEEF, FASIL ABDUL	3,218,766
FIELD, SAMUEL BRUCE	3,217,954	HUTCHINSON, STEVEN M.	3,218,277	LATHIA, NIRALI	3,181,326
FLEGEL, BENJAMIN F.	3,182,177	IDEXX LABORATORIES, INC.	3,218,377	LATHIA, NIRALI	3,218,469
FOREFRONT ENERGY LTD.	3,180,778	ILLINOIS TOOL WORKS INC.	3,211,320	LEADING MAGNETIC DESIGN	
GAGNON, STEEVEN	3,181,010	INSTITUTO MEXICANO DEL		LTD	3,216,646
GAGNON, STEEVEN	3,181,015	PETROLEO-		LEAGUE, INC.	3,218,020
GAMBLE, JOSHUA	3,180,354	UNIVERSIDAD DE		LEDEBT, HERVE	3,217,823
GANTZER, CHRISTIAN	3,215,657	GUANAJUATO	3,218,546	LEE, KI RAK	3,218,363
GARELICK, KENNETH	3,217,954	INTUIT INC.	3,208,855	LEE, SUNG MUN	3,212,997
GARNER, ELIJAH B.	3,217,731	ISABELLE, JOEY	3,180,629	LEIDIG, JURGEN	3,211,019
GASKIN, HENRY JAMES	3,218,535	IVERSON, DAVID S.	3,217,269	LEMIEUX, DAVID	3,180,629
GENDRON, JEAN-PHILIPPE	3,198,126	JACOBS, WALTER	3,180,586	LESPIAT, REMI	3,218,207
GENERAL DYNAMICS		JAFFER, SHAMIRA	3,218,774	LESSMULLER	
ORDNANCE AND		JAYATHIRTHA, SRIHARI	3,217,961	LASERTECHNIK GMBH	3,211,175
TACTICAL SYSTEMS -		JELINEK, TYLER	3,217,535	LESSMULLER, ECKHARD	3,211,175
CANADA INC.	3,217,912	JEON, HYOUNGSUK	3,218,764	LEWIS, JOHN	3,181,305
GENETEC INC.	3,217,823	JEON, HYOUNGSUK	3,218,766	LIN, HUIFA	3,218,764
GHOSH, SAREE	3,188,999	JEON, HYOUNGSUK	3,218,928	LINDSEY, WADE	3,217,961
GIGUERE, MARC-ANDRE	3,231,199	JIN, YONG SUK	3,218,774	LIU, SHENGHAO	3,218,094
GINGRICH III, CHARLES		JONES, BRYN	3,218,860	LONGYEAR TM, INC.	3,180,596
RAYMOND	3,217,817	JONES, TAYLOR	3,217,535	LOVETT, BENJAMIN M.	3,210,308
GINGRICH, CHARLES		JOSHI, NINAD	3,217,904	LOVETT, BENJAMIN M.	3,210,322
RAYMOND, III	3,217,681	JUAN, AARON DANIEL	3,218,257	LOVETT, BENJAMIN M.	3,210,326
GOHARDEHI, SHEIDA	3,218,210	JULLION, BRANDON	3,180,354	LOVETT, BENJAMIN M.	3,210,523
GOLZAR, HOSSEIN	3,218,293	JUVYOU (EUROPE) LIMITED	3,217,950	LOVETT, BENJAMIN M.	3,213,306
GONZALEZ, JUAN DANIEL	3,214,097	KANG, HYUN WOO	3,218,363	LU, YANG	3,215,197

Index des demandes canadiennes mises à la disponibilité du public

28 avril 2024 au 4 mai 2024

LUBERTO, MICHAEL D.	3,180,962	NITTALA, SRIKAR S.	3,218,277	RAMIERE, ANTHONY	3,217,709
LUNA RAMIREZ, MARIA DEL ROSARIO SÓCORRO	3,218,546	NORPEL, SAMIA	3,217,950	RANDLE, HARTLEY	3,180,354
LUND, DAVID M.	3,218,329	NOTANEY, SIDDHARTH RAMESH	3,218,025	RASMUSSEN, JAMES	3,218,214
LUO, JIA	3,210,097	OMEZA HOLDINGS, INC.	3,218,376	RASTEGARDOOST, NAZANIN	3,218,764
MACHINERY TECHNOLOGY DEVELOPMENT CO., LTD.	3,228,764	OUTHWAITE, AARON SCOT	3,217,532	RASTEGARDOOST, NAZANIN	3,218,928
MACNEIL IP LLC	3,217,269	OZAWA, TOSHIRO	3,218,438	RATHOD, DHARITRI	3,218,249
MACPHERSON, KASSIDY	3,215,150	PALANIAPPAN, RAGHAVAN	3,218,377	RATIER-FIGEAC SAS	3,212,431
MAGNAN, JEAN-FRANCOIS	3,180,629	PALMER, ROGER	3,218,379	RATIER-FIGEAC SAS	3,213,918
MANGAN, MARK	3,218,857	PANASONIC APPLIANCES MICROWAVE OVEN(SHANGHAI) CHINA CO., LTD.	3,198,492	RAVING FAN SERVICES, LLC	3,217,898
MAPLEBEAR INC.	3,209,801	PAPROSKI, ROBERT	3,181,305	RELIANCE CONTROLS CORPORATION	3,182,177
MARENGHI, ANDREA	3,218,980	PARK, GEUN IL	3,218,363	RELYION ENERGY, INC.	3,218,257
MARKOVIC, ZORANA	3,208,328	PARK, HWAN SEO	3,218,363	RICHMOND, FRED ANTHONY	3,218,051
MARRANO, ROBERTO	3,218,068	PARK, KYUNGMIN	3,218,766	ROSS, ROBERT M.	3,218,214
MARRANO, ROBERTO	3,218,076	PARKHA, PAYAM	3,216,116	ROTH, DARIN L.	3,210,308
MARRANO, ROBERTO	3,218,324	PAUL, NICOLAS	3,217,854	ROTH, DARIN L.	3,210,322
MARTINEZ, IGNACIO ALONSO	3,214,097	PAUL, NICOLAS	3,217,888	ROTH, DARIN L.	3,210,326
MARVIN LUMBER AND CEDAR COMPANY, LLC D/B/A MARVIN WINDOWS AND DOORS	3,218,214	PAUL, ROBIN	3,180,586	ROTH, DARIN L.	3,210,523
MARVIN LUMBER AND CEDAR COMPANY, LLC D/B/A MARVIN WINDOWS AND DOORS	3,218,329	PAUL, SWAJAN	3,182,770	ROTH, DARIN L.	3,213,306
MASUCH, STEFFEN	3,218,672	PELLEY, LOGAN	3,218,857	ROTHWELL, LORA PALACIOS	3,218,720
MATEUS MALDONADO, JUAN FELIPE	3,215,150	PERIC, ALEX	3,218,718	ROYAL BANK OF CANADA	3,216,116
MAY, NORMAN	3,203,349	PERZANOWSKI, DAVID	3,218,857	ROYAL BANK OF CANADA	3,217,298
MAYNARD, JUSTIN	3,180,359	PETERS, JARON	3,217,483	ROYAL BANK OF CANADA	3,217,300
MAZARS, BENOIT	3,213,918	PICARD, ERICK	3,217,912	ROYAL BANK OF CANADA	3,218,249
MCCALL, TRAVIS M.	3,217,535	PICARD, PIERRE-ALEX	3,212,431	ROYAL BANK OF CANADA	3,218,535
MCGINLEY, PATRICK	3,218,207	PICARD, PIERRE-ALEX	3,213,918	ROYAL BANK OF CANADA	3,218,568
MEICHAEL, MINA SHOKRALLA ZEKRY YASA	3,217,657	PICK, DANIEL	3,217,688	ROYAL BANK OF CANADA	3,218,572
MENGEU, BRIAN	3,218,857	PILLAI, RAMASAMY THALAVAY	3,219,069	RUNCK, MICHAEL J.	3,206,419
MIGHTON PRODUCTS LIMITED	3,217,834	PLAMONDON, ETIENNE	3,217,904	RUNCK, MICHAEL J.	3,206,426
MILLER, KEITH EDWIN	3,217,681	PLAMONDON, ETIENNE	3,218,500	RUSSELL, JAYSON	3,206,402
MILLER, KEITH EDWIN	3,217,817	POISSANT, JEFFREY	3,217,951	RYAN, KEVIN	3,209,801
MILLER, MICHAEL	3,217,961	POMEROY, JOHN W.	3,217,532	RYAN, NIAL	3,216,116
MING SHIN TOOLS CO., LTD.	3,201,027	PONTARELLI, ROBERT	3,217,951	RYAN, WANETA	3,180,626
MITCHELL, SANFORD	3,181,326	POURTABATABAIE, ARYA	3,218,572	SABERT CORPORATION	3,217,896
MITCHELL, SANFORD G.	3,218,469	PRATHIPATI, JAYANTH	3,217,688	SACHDEV, MANOJ	3,218,210
MONDO S.P.A.	3,218,980	PRATT & WHITNEY CANADA CORP.	3,217,904	SANTIAGO, LUIS-ALBERTO J.	3,210,097
MONROE, GARY S.	3,218,025	PRATT & WHITNEY CANADA CORP.	3,217,906	SAP SE	3,203,349
MOORE, PAIGE BARBARA	3,211,534	PRATT & WHITNEY CANADA CORP.	3,217,951	SARGENT MANUFACTURING COMPANY	3,217,962
MOORE, PAIGE BARBARA	3,217,884	PRATT & WHITNEY CANADA CORP.	3,218,068	SAVANT TECHNOLOGIES LLC	3,215,197
MOUNT, BERT	3,210,097	PRATT & WHITNEY CANADA CORP.	3,218,076	SAVARIA, VINCENT	3,217,904
MURE, JOSEPH	3,217,888	PRATT & WHITNEY CANADA CORP.	3,218,324	SAVOIE, FELIX	3,217,156
NABULSI, ADEL AL	3,218,249	PRATT & WHITNEY CANADA CORP.	3,218,364	SCHNEIDER ELECTRIC SYSTEMS ITALIA S.P.A.	3,217,657
NACCACHE, GABRIEL	3,218,364	PRATT & WHITNEY CANADA CORP.	3,218,373	SCHNEIDER, CHRISTOPHER MICHAEL	3,211,534
NAKAMURA, KEIGO	3,213,958	PRATT & WHITNEY CANADA CORP.	3,218,500	SCHNEIDER, CHRISTOPHER MICHAEL	3,216,631
NANOSTICS INC.	3,181,305	PREVITALI, FLORENT	3,217,944	SCHNEIDER, CHRISTOPHER MICHAEL	3,217,705
NATIONAL INSTITUTE OF METROLOGY, CHINA	3,186,174	PREVITALI, FLORENT	3,217,956	SCHNEIDER, CHRISTOPHER MICHAEL	3,217,884
NATIONAL RESEARCH COUNCIL OF CANADA	3,217,808	PROCHNOW, MICHAEL R.	3,218,243	SCHNEIDER, CHRISTOPHER MICHAEL	3,217,949
NATURAL GAS SOLUTIONS NORTH AMERICA, LLC	3,218,720	QU, HAOYUAN	3,228,764	SCHNIDER, CHRISTOPHER MICHAEL	3,211,511
NEDI, IRMA	3,218,980	RAMAMURTHY, RAJA	3,218,068	SCHOLL, KYLE W.	3,218,277
		RAMAMURTHY, RAJA	3,218,076	SCHROEDER, MATTHEW	3,218,721
		RAMAMURTHY, RAJA	3,218,324	SCHROEDER-SCHOCK, JUSTIN	3,218,214
				SCHULER, JASON	3,217,896
				SEAVER, TODD	3,181,326
				SEAVER, TODD A.	3,218,469

**Index of Canadian Applications Open to Public Inspection
April 28, 2024 to May 4, 2024**

SHAND, DAVID MICHAEL	3,216,050	THE ROYAL INSTITUTION	WORKS, JOSEPH W.	3,217,535
SHARMA, RATNESH K.	3,218,257	FOR THE	WRIGHT, DOUGLAS GRANT	3,216,631
SHARON, DAN	3,208,855	ADVANCEMENT OF	WRMTH CORP.	3,217,532
SHARP KABUSHIKI KAISHA	3,213,958	LEARNING/MCGILL	WU, TONG	3,186,174
SHEN, QINGFEI	3,186,174	UNIVERSITY	WUISAN, GIOVANNI A.	3,215,018
SHENZHEN AIPER		THE TORONTO-DOMINION	XIBAO (FUJIAN) HOME	
INTELLIGENT CO., LTD.	3,197,984	BANK	FURNISHING CO., LTD.	3,218,094
SHIKANY, DAVID A.	3,210,097	THE TORONTO-DOMINION	XU, BIN	3,228,764
SHIRLEY-SMITH, ALEX	3,217,675	BANK	XU, HONGBIN	3,215,197
SHMIDOV, ELAD	3,208,855	THE TORONTO-DOMINION	XU, JIAN	3,218,766
SHUKLA, ANUJA	3,216,116	BANK	XU, XIAOFAN	3,209,801
SIBBALD, PAUL ALLAN	3,206,402	THE TORONTO-DOMINION	YAN, WENKAI	3,197,984
SIGNIFI SOLUTIONS INC.	3,218,774	BANK	YAO, YAO	3,186,174
SILVER CRYSTAL GROUP	3,218,949	THE TORONTO-DOMINION	YOUNG, LESTER WILLIAM	3,218,857
SIMMONS, DANIEL	3,180,778	BANK	YU, XUELIANG	3,197,984
SIMMONS, JORDAN	3,180,778	TOFTE, NATHAN L.	ZAKI, MAURICE	3,217,950
SIMMONS, NATHAN	3,180,778	TOFTE, NATHAN L.	ZEINISS, EUGENE	3,208,855
SIMMS, STAN R.	3,217,893	TOFTE, NATHAN L.	ZHANG, LINZHU	3,217,913
SINGH, SURINDER	3,218,257	TOMISHIGE, KAORU	ZHANG, SHENG	3,228,764
SISKINDOVICH, YOHANAN	3,217,896	TORRES MANCERA, LEON	ZHAO, PENG	3,228,764
SITTERLY, ERIC	3,217,905	PABLO	ZHONG, XIAOJUN	3,211,885
SLAGEL, ROBERT RHETT	3,218,790	TOWNE, GERALD	ZHOU, XIN	3,186,174
SMINK, RUTGER WILHELMUS	3,217,681	TRANSTAR AUTOBODY	ZHURAVLEV, YURI	3,216,646
SMITH, EVAN THOMAS	3,206,415	TECHNOLOGIES LLC	ZIMMERMANN, KELLY M.	3,210,097
SMITH, EVAN THOMAS	3,206,419	TRANSTAR AUTOBODY	ZOOM FINS LLC	3,218,025
SMITH, EVAN THOMAS	3,206,426	TECHNOLOGIES LLC		
SMITH, RODNEY	3,217,817	TRUCKENBRODT, CHRISTIAN		
SMYTH, CATHAL	3,216,116	TUIN, JACOBUS NICOLAAS		
SNOKE, NICOLAS G.	3,218,277	TURF CARE SUPPLY, LLC		
SOLOMON, NICHOLAS	3,181,326	VALLANCE, LOIC		
SOLOMON, NICHOLAS	3,218,469	VAN NIEKERK, JOHANN		
SORBY, ERIC A.	3,218,214	VAN NIEKERK, JOHANN		
SORENSEN, LARRY	3,217,535	VANDIKE, NATHAN R.		
SOULIE, ARNAUD	3,213,918	VANDIKE, NATHAN R.		
STEWART, JAMES H.	3,218,214	VANDIKE, NATHAN R.		
STREAMWIDE	3,217,944	VANDIKE, NATHAN R.		
STREAMWIDE	3,217,956	VANDIKE, NATHAN R.		
STROPPIANA, MAURIZIO	3,218,980	VERDEWELL		
SUN, JIAN	3,217,808	INTERNATIONAL		
SYNTEGON TECHNOLOGY		HOLDINGS LIMITED		
GMBH	3,211,019	VIJ, VINAY		
TAICANG KINGFU PLASTIC		VILAR, ERIC		
MANUFACTURE CO., LTD	3,181,323	VOLKSWAGEN		
TAIGA MOTORS INC.	3,218,721	AKTIENGESELLSCHAFT		
TANG, FANGRU	3,215,197	WALTON, SCOTT ERIC		
TANG, KEYI	3,217,298	WALTON, SCOTT ERIC		
TANG, KEYI	3,217,300	WANG, AIJUN		
TANG, XIAOWU (SHIRLEY)	3,218,293	WANG, JIETONG		
TE CONNECTIVITY		WANG, LEI		
SOLUTIONS GMBH	3,217,681	WANG, YANG		
TE CONNECTIVITY		WANG, ZHIYONG		
SOLUTIONS GMBH	3,217,817	WATSON, SIDNEY		
TE CONNECTIVITY		WEBER, FLORIAN		
SOLUTIONS GMBH	3,218,794	WEBER, MARCEL		
THE BOEING COMPANY	3,210,097	WEINBERG, KERRY		
THE HILLMAN GROUP, INC.	3,218,379	WERNER MEDIA PARTNERS,		
THE ROYAL INSTITUTION		LLC		
FOR THE		WERNER, MARC LOUIS		
ADVANCEMENT OF		WICKRAMARATHNA, ARUNA		
LEARNING / MCGILL		WIEBE, AARON		
UNIVERSITY	3,182,770	WILKINSON, DAVID		
		WILLIAMS, GREGORY		
		WOLF, KURT		
		WOODS, TIMOTHY J.		

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

360 RESEARCH LABS, LLC	3,236,724	ALBERT-LUDWIGS-		ARKLES, BARRY C.	3,236,595
3B PHARMACEUTICALS		UNIVERSITAT FREIBURG	3,236,809	ARMSTRONG WORLD	
GMBH	3,236,432	ALCON INC.	3,237,081	INDUSTRIES, INC.	3,236,601
9416-1999 QUEBEC INC.	3,236,643	ALDEN, MATS	3,237,066	ARNOLD, DONALD	3,236,833
A2TBIO LLC	3,236,838	ALDEN, MATS	3,237,076	ARTERIUS LIMITED	3,236,822
ABBAS, SHERMEEN A.	3,236,413	ALEFANTIS, TIMOTHY	3,237,134	ARTIFICIAL NATURE S.L.	3,236,799
ABBOT, STEWART	3,236,408	ALEFANTIS, TIMOTHY	3,237,139	ARTIVA BIOTHERAPEUTICS,	
ABBOTT DIABETES CARE		ALIZADEH, ARASH ASH	3,236,814	INC.	3,237,016
INC.	3,236,830	ALL SKIN INC	3,236,825	ARUMUGAM, BASKAR	3,237,107
ABBOTT DIABETES CARE		ALLEMANN, OLIVER	3,236,396	ASBERRY, ANDREW	3,236,605
INC.	3,237,075	ALLWEIN, MICHAEL	3,236,399	ASFAHA, JONATHAN	
ABBVIE INC.	3,236,853	ALLWEIN, MICHAEL	3,236,401	BENJAMIN	3,236,731
ABBVIE INC.	3,236,854	ALPER, OZGE	3,236,417	ASHFIELD, REBECCA	3,236,737
ABIOMED, INC.	3,236,732	ALTENDORFER, BERNHARD	3,236,500	ASPLAND, KELLI JAYNE	3,236,909
ABIOMED, INC.	3,236,739	AMASON, HALEY JANE	3,236,903	ATLAS TUBE CONNECTIONS,	
ABNEY, CARTER W.	3,236,700	AMBADE, AMEY	3,236,869	LLC	3,237,130
ABRAHAM, DANIEL Y.	3,236,508	AMCOR RIGID PACKAGING		AULTMAN, ERIN JULIETTE	3,236,455
ABRAM, MICHAL	3,236,670	USA, LLC	3,236,961	AULTMAN, ERIN JULIETTE	3,236,457
ABRAMI, GABRIELE	3,236,466	AMERICAN DIAGNOSTICS &		AURINIA	
ABVIRO LLC	3,237,090	THERAPY, LLC (ADXR)	3,236,417	PHARMACEUTICALS	
ACHAB, ABDELGHANI ABE	3,236,550	AMERICAN QUANTUM		INC.	3,237,004
ADAMI, ALEXANDER	3,236,469	TECHNOLOGY LLC	3,236,954	AUSTIN, CRAIG	3,236,630
ADAMI, ALEXANDER	3,237,138	AMES, BRIAN SHAW	3,236,473	AUSTRHEIM, TROND	3,236,756
ADAMS, ALEXANDRA	3,237,063	AMGEN INC.	3,236,413	AUTOSTORE TECHNOLOGY	
ADB SAFEGATE BV	3,236,849	AMGEN INC.	3,236,414	AS	3,236,756
ADCENTRX THERAPEUTICS		AMGEN INC.	3,236,923	AVERSA, MARCO	3,236,783
INC.	3,236,944	AMIN, BHUMICA A.	3,236,720	AVERY, KENNETH L.	3,236,624
ADCENTRX THERAPEUTICS		AMINI, NOOSHIN	3,236,867	AVRIL	3,236,674
INC.	3,236,949	AMOZEGAR, KAMYAB	3,236,850	BABCOCK, GREGORY	3,236,564
ADEDOKUN, OMONIYI	3,236,779	ANDALIBI-ABADAN, NAVID	3,237,025	BAE SYSTEMS HAGGLUNDS	
ADICET THERAPEUTICS, INC.	3,236,408	ANDERSEN, JAN TERJE	3,236,937	AKTIEBOLAG	3,237,056
ADIMAB, LLC	3,236,868	ANEMUELLER, CARLOTTA	3,236,469	BAEK, SO RA	3,236,929
ADLER, BERNHARD	3,236,896	ANEMUELLER, CARLOTTA	3,237,138	BAGAEV, ALEXANDER	3,236,872
ADP, INC.	3,237,072	ANGLO AMERICAN		BAGEPALLI, LINA RAJILI	3,236,391
ADVANCED MICRO		TECHNICAL &		BAI, LU	3,236,754
FOUNDRY PTE. LTD.	3,236,660	SUSTAINABILITY		BAI, YIQING	3,237,007
AFFIMED GMBH	3,237,016	SERVICES LTD	3,236,447	BAILLARGEON, KEITH	3,236,712
AFFIMED GMBH	3,237,018	ANGLO CORPORATE		BAITY, SEAN MARSHALL	3,236,502
AFFOLTER, ROLAND	3,237,110	SERVICES SOUTH		BALLOTTARI, MATTEO	3,236,610
AFTAB, BLAKE T.	3,236,408	AFRICA (PTY) LTD	3,236,447	BAMIDELE, NATHAN	3,236,778
AFZAL, SAYED AMIN	3,236,486	ANHUI HYGEIANCELLS		BANDEALY, AHAD	
AGELAS, LEO	3,236,846	BIOMEDICAL CO. LTD	3,236,545	KARAMALI	3,236,918
AGERSNAP SCHERER,		ANISIMOV, SERGEY		BANDUKWALA, HOZEFA	3,236,873
MATHIAS	3,237,017	VLADIMIROVICH	3,236,823	BAO, HANZHEN	3,236,836
AGIOS PHARMACEUTICALS,		ANSUN BIOPHARMA INC.	3,237,027	BAO, YANJIE	3,236,675
INC.	3,236,880	ANTYSHEVA, ZOIA	3,236,872	BAOSHAN IRON & STEEL CO.,	
AHLSTROM OYJ	3,236,783	AQUILA BLACK LIMITED	3,236,465	LTD.	3,236,848
AHMED, NAVEED	3,236,822	AQUILA BLACK LIMITED	3,236,483	BAR, JULIAN NICOLAAS	3,237,032
AHN, JUNG MIN	3,237,119	ARAP, WADIH	3,236,952	BARANYI, MARCELL	3,236,828
AHUJA, ROHAN	3,236,693	ARCELORMITTAL	3,236,953	BARAS, ARIS	3,237,033
AKIKUSA, SHINGO	3,236,786	ARCTURUS THERAPEUTICS,		BARBHAIYA, HARSH	3,236,528
AKTIEBOLAGET SKF	3,236,753	INC.	3,236,675	BARDENSHEIN,	
AL JADDA, KHALIFEH	3,236,448	ARCUS BIOSCIENCES, INC.	3,236,553	ALEXANDER	3,236,900
AL-LAMEE, KADEM	3,236,822	ARIEL SCIENTIFIC		BARLOW, KYLE ANDREW	3,236,868
ALBANI, DAVIDE	3,236,603	INNOVATIONS LTD.	3,237,114	BARNEY, LAUREN EMILY	3,236,873
		ARKEMA FRANCE	3,237,002		

Index of PCT Applications Entering the National Phase

BARREL REJUVENATION SERVICES PTY LTD	3,236,858	BENVEGNUM, THIERRY	3,236,839	BOHMER, BERNT	3,237,051
BARRES, THOMAS	3,236,672	BERGAMINI, LORENZO	3,236,503	BOILY, MARC-OLIVIER	3,236,877
BARRO, MARIO	3,237,134	BERGERON, SERGE	3,236,438	BOIRIN, STEPHANE PIERRE-JEAN	3,237,131
BARRO, MARIO	3,237,139	BERTENYI, TAMAS	3,236,910	BOIRIN, STEPHANE PIERRE-JEAN	3,237,133
BARTIER, JEROME	3,236,715	BERTHE, GUILLAUME	3,236,846	BOLD THERAPEUTICS INC.	3,236,666
BARTON, NAOMI ANNE	3,236,854	BETTA PHARMACEUTICALS CO., LTD	3,237,020	BOLT THREADS, INC.	3,236,811
BARYON INC.	3,236,812	BETTERLE, NICO	3,236,610	BOMBARDIER RECREATIONAL PRODUCTS INC.	3,236,563
BASF SE	3,236,513	BEUCKELAERS, ERIK PAUL FLOR	3,237,109	BONNIVARD, FLORIAN	3,236,634
BASHIR, MOHAMED H.	3,236,808	BEVERIDGE, RAMSAY	3,236,877	BOOG, MANUEL	3,237,032
BASSIK, MICHAEL C.	3,236,802	BEYNON, VANESSA	3,236,880	BOOTH, BRIAN JOHN	3,236,391
BATISTA, RICARDO	3,237,066	BEZIER, CYNTHIA	3,237,013	BORCHERS, GEORG	3,236,665
BATISTA, RICARDO	3,237,076	BEZIN, JEAN-CLAUDE	3,236,423	BORSATO, EMERSON PAULO	3,236,723
BATTELLE MEMORIAL INSTITUTE	3,236,883	BHAT, ARUN	3,236,408	BORSCHNECK, SEAN GRAY	3,236,412
BATTELLE MEMORIAL INSTITUTE	3,236,905	BHATIA, SUMAN JOY	3,236,880	BOSI, NICOLAS	3,237,133
BATTELLE MEMORIAL INSTITUTE	3,236,908	BHATT, AMI S.	3,236,802	BOSSCHER, KASPER	3,237,021
BAUER, VERENA	3,236,757	BIANEIS, MARINE	3,236,674	BOSSERT, SEBASTIAN MARTIN	3,236,757
BAXTER HEALTHCARE SA	3,236,418	BILEY, CHRISTOPHER ALAN	3,236,447	BOSTONGENE CORPORATION	3,236,872
BAXTER HEALTHCARE SA	3,236,419	BILTON, SIMON LEWIS	3,236,763	BOTTEN, RONALD S.	3,236,803
BAXTER HEALTHCARE SA	3,236,420	BILTON, SIMON LEWIS	3,236,764	BOUCHARD, PATRICK	3,236,850
BAXTER HEALTHCARE SA	3,236,421	BILTON, SIMON LEWIS	3,236,766	BOURQUE, YANNICK	3,236,563
BAXTER HEALTHCARE SA	3,236,423	BINTU, LACRAMIOARA	3,236,802	BOWERS, GARY	3,236,477
BAXTER INTERNATIONAL INC.	3,236,418	BIOCONTROL, LLC	3,236,805	BRAATHEN, WILLIAM	3,237,116
BAXTER INTERNATIONAL INC.	3,236,419	BIOCYTOGEN PHARMACEUTICALS (BEIJING) CO., LTD.	3,236,748	BRADLEY, ARTHUR	3,237,107
BAXTER INTERNATIONAL INC.	3,236,420	BIOND BIOLOGICS LTD.	3,237,102	BRADLEY, CHRISTOPHER	3,237,003
BAXTER INTERNATIONAL INC.	3,236,421	BIONDI, OLIVIER	3,237,013	BRAIN CORPORATION	3,236,543
BAXTER INTERNATIONAL INC.	3,236,423	BIOPHYTIS	3,237,013	BRAINSPACE, INC.	3,237,129
BAXTER, LARRY	3,237,019	BIOSENTA INC.	3,236,797	BRIDEL, JEAN-SEBASTIEN	3,236,729
BAZDANES, CHRISTOPHER THEODORE	3,236,732	BIOVERITAS, LLC	3,237,036	BRIGGS, ADRIAN WRANGHAM	3,236,391
BAZETT, MARK	3,236,666	BISN TEC LTD	3,236,940	BRII BIOSCIENCES, INC.	3,236,407
BEATY, JOEL WORLEY	3,236,553	BISSOLA, ANNA-LISE	3,236,833	BRILL, ZACHARY G.	3,236,550
BEATY, MATTHEW	3,236,919	BJERKEDOK, JONATHAN EDVARD	3,237,116	BRINKMANN, FRANCISCUS JOZEF LEONARDUS HUBERTUS	3,236,990
BECHER, LAURA	3,236,709	BK GIULINI GMBH	3,236,768	BRITTON, MATTHEW	3,236,506
BECK, CHRISTOF	3,236,419	BLACK, SAMUEL KEITH	3,236,994	BROCH, THOMAS	3,237,017
BECK, CHRISTOF	3,236,421	BLAKEMAN, JONATHAN LINDSAY	3,236,858	BROOKHURST GARAGE, INC.	3,236,875
BECKER, ADRIAN	3,236,464	BLANK, THOMAS	3,236,809	BROOKHURST GARAGE, INC.	3,236,876
BECKER, MATT	3,236,958	BLESGEN, ANDREE	3,236,665	BROWN, ALLANAH	3,237,023
BECKS, VINCENT JOHN	3,236,455	BLICKLE, RAINER	3,236,419	BROWN, JAMIE AARON	3,236,932
BEGUM, FEROZA	3,236,403	BLICKLE, RAINER	3,236,420	BROWN, JASON C.	3,236,493
BEHFAR, ATTA	3,236,709	BLICKLE, RAINER	3,236,421	BROWN, JASON C.	3,236,507
BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CH...	3,236,535	BLONDE, JAMES GARD	3,236,502	BROWN, JEFFREY A.	3,236,413
BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CH...	3,237,007	BLONDEL, CHARLES	3,237,029	BRUCE, TREVOR	3,236,927
BEN GAID, MONGI	3,236,846	BODIN, ANDERS	3,237,056	BRUDNO, YEVGENY	3,236,482
BEN-MOSHE, TEHILA	3,237,102	BODURKA, ALEX	3,237,025	BRUHLMANN, DIETER	3,236,492
BENALI, ABDALLAH	3,236,846	BOEHRINGER INGELHEIM INTERNATIONAL GMBH	3,236,757	BRUNO, BENJAMIN J.	3,236,546
BENSFIA, SAMIRA	3,237,142	BOEHRINGER INGELHEIM INTERNATIONAL GMBH	3,236,890	BUCHER, JAMES	3,236,706
		BOEHRINGER INGELHEIM INTERNATIONAL GMBH	3,236,891	BUCK, REINHOLD	3,236,419
		BOEHRINGER INGELHEIM VETMEDICA GMBH	3,236,894	BUDAY, LASZLO	3,236,828
		BOEZIO, ALESSANDRO	3,236,861	BUI, HUYNH-HOA	3,236,950
		BOGAERTS, ANNEMIE	3,236,636	BULLETT, NIAL	3,236,822
		BOGDAN, ANDREW	3,236,853	BULMAN, ERIK	3,236,717
		BOGDAN, ANDREW	3,236,854	BURAK, ERIC S.	3,237,041
		BOGGS, JOSEPH W., II	3,236,716	BURAKOFF, STEVEN	3,237,015
		BOHL, PATRICK	3,237,017	BURCH, JASON	3,236,877
		BOHLEN, JORG	3,236,938	BURDE, JEFFREY	3,236,691
				BURGERS, TRAVIS ALLEN	3,236,692

Index des demandes PCT entrant en phase nationale

BURGESS, JONATHAN NEIL	3,236,395	CELLUCOMP LIMITED	3,236,900	CHINA PETROLEUM & CHEMICAL CORPORATION	3,236,535
BURGESS, JONATHAN NEIL	3,236,397	CENTRE FOR ADDICTION AND MENTAL HEALTH	3,236,532	CHINA PETROLEUM & CHEMICAL CORPORATION	3,236,626
BURGESS, JONATHAN NEIL	3,236,400	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	3,236,839	CHINA PETROLEUM & CHEMICAL CORPORATION	3,236,627
BURHORST, TORSTEN	3,236,651	CEREVANCE, INC.	3,236,793	CHINA PETROLEUM & CHEMICAL CORPORATION	3,236,747
BURLI, ROLAND	3,236,793	CERNOHOUS, JEFFREY J.	3,236,863	CHINA PETROLEUM & CHEMICAL CORPORATION	3,236,888
BURMEISTER, GERNOT UWE	3,236,425	CHADJAA, MUSTAPHA	3,237,142	CHINA PETROLEUM & CHEMICAL CORPORATION	3,236,892
BUSCHMANN, WAYNE E.	3,236,801	CHAGNON, FELIX	3,236,877	CHINA PETROLEUM & CHEMICAL CORPORATION	3,237,007
BUTUSOVA, ANNA	3,236,872	CHAIT, ARNON	3,236,536	CHINA PETROLEUM & CHEMICAL CORPORATION	3,237,007
BWXT ADVANCED TECHNOLOGIES LLC	3,236,493	CHAMBERLAIN, PAUL	3,237,107	CHINA PETROLEUM & CHEMICAL CORPORATION	3,237,007
BWXT ADVANCED TECHNOLOGIES LLC	3,236,507	CHAMPION, ELISE	3,236,657	CHINA PETROLEUM & CHEMICAL CORPORATION	3,237,007
BWXT ADVANCED TECHNOLOGIES LLC	3,236,510	CHAMPIONX LLC	3,236,415	CHINA PHARMACEUTICAL UNIVERSITY	3,236,558
BYERS, ANTHONY	3,237,134	CHAN, RUSSELL	3,236,918	CHISHOLM, HELEN	3,236,570
BYLARD, RYAN	3,236,399	CHANG, HYUK-KYUN	3,237,012	CHIVUKULA, PADMANABH	3,236,675
BYLARD, RYAN	3,236,401	CHANG, JEFFREY	3,236,602	CHIVUKULA, SUDHA	3,236,924
BYUN, JEONGSU	3,236,688	CHANG, YI-LU	3,236,686	CHOE, YU-SUNG	3,237,105
CAI, JIONG	3,236,943	CHAPEL, ROMAIN	3,236,631	CHOI, AE RAN	3,237,119
CAI, LONGYING	3,236,632	CHAPONNEL, JAMES	3,236,927	CHOI, HEON SIK	3,211,942
CALICO LIFE SCIENCES LLC	3,236,853	CHARBONNIER, FREDERIC	3,237,013	CHOI, JAEMOOK	3,236,688
CALICO LIFE SCIENCES LLC	3,236,854	CHARPENTIER, MYRIAM	3,236,897	CHOI, JONG-KYO	3,236,520
CAMPBELL, BRIAN	3,237,115	CHART ENERGY & CHEMICALS, INC.	3,237,019	CHOI, JUNG-WOO	3,237,012
CAMPBELL, DAVID	3,236,935	CHASE, KEVIN J.	3,237,045	CHONKAR, HEMENDRA	3,236,701
CAMPBELL, DAVID	3,236,941	CHASING BACON, LLC	3,236,987	CHOU, BAIGE	3,237,007
CANCER RESEARCH TECHNOLOGY LTD.	3,236,433	CHAU, JOCELYN	3,236,707	CHRISTENSEN, ASSAR	3,237,056
CANGIOLI, FRANCESCO	3,236,389	CHAU, MARK	3,236,720	CHRISTENSEN, TREVOR EMIL	3,236,855
CANTU, CARLOS MARTIN	3,236,730	CHE, QINGLIN	3,236,861	CHU, FU CHYUN	3,236,416
CAO, HENGCHU	3,236,707	CHEDID, MARCIO	3,236,504	CHU, LIQIU	3,236,535
CAO, JUNFENG	3,236,747	CHEDID, MARCIO	3,236,547	CHU, LIQIU	3,237,007
CAO, SHIJIE	3,236,808	CHEDID, MARCIO	3,236,555	CHU-KUNG, ALEXANDER FANN-YAN	3,236,949
CAO, SHUZHEN	3,236,748	CHEDID, MARCIO	3,236,560	CHUNG, DAE SIK	3,236,929
CAO, WEI	3,232,714	CHEICH, ROBERT C.	3,236,714	CHUNG, JOO-YOUNG	3,237,122
CAPITAL ONE SERVICES, LLC.	3,236,988	CHEN ZELTSBURG, LILACH	3,237,102	CHUNG, YOKE DOU	3,236,781
CARBONX B.V.	3,236,750	CHEN, CHIA-WEN	3,236,819	CHUNG, YOKE DOU	3,236,787
CARDON, CHRISTIAAN	3,236,638	CHEN, CHIA-WEN	3,237,001	CHURCH, GEORGE MCDONALD	3,237,003
CARDON, CHRISTIAAN	3,236,653	CHEN, JIADA	3,237,008	CIESIELCZYK, BENJAMIN FRANKLIN	3,236,963
CARIDE, ANGEL GALVAN	3,236,508	CHEN, JIAHUI	3,236,861	CJ CHEILJEDANG CORPORATION	3,236,499
CARIOU-MUMFORD, CLAIRE ANNE MARIE	3,236,854	CHEN, MING	3,236,622	CLARK, BILLY	3,236,940
CARON, NICHOLAS	3,236,664	CHEN, QIUXIA	3,236,632	CLARK, JORDAN	3,236,878
CARRAGHER, PAUL	3,236,940	CHEN, RONG	3,236,969	CLAY, BRANDON	3,236,596
CARREROT, HERVE	3,236,753	CHEN, XIAOBO	3,236,540	CLAYTON CORPORATION	3,236,405
CARROLL, JAMES T.	3,236,409	CHEN, XIAOBO	3,236,551	CLEAN CHEMISTRY, INC.	3,236,801
CARSWELL, EMMA	3,236,433	CHEN, XIAOBO	3,236,561	CLEVELAND DIAGNOSTICS, INC.	3,236,536
CARTESIAN THERAPEUTICS, INC.	3,237,037	CHEN, XIAOBO	3,236,562	CLIMEWORKS AG	3,236,603
CARUBA, JAMES FRANK	3,236,859	CHEN, XIAOYUAN	3,236,558	CLINES, CAMERON	3,236,958
CARVALHO, JEAN-FRANCOIS	3,237,029	CHEN, XIAOZHEN	3,236,635	CLINES, CAMERON JOSEPH	3,236,963
CASIMIRO, DANILO	3,236,924	CHEN, YUE	3,236,742	CNCURE BIOTECH INC.	3,236,831
CASKEY, BRIAN REISSNER	3,236,502	CHEN, YUN	3,236,997	CODEXIS, INC.	3,236,731
CATERPILLAR GLOBAL MINING EQUIPMENT LLC	3,236,394	CHEN, ZAN	3,236,742	COLEIRO, GAETAN	3,236,374
CATERPILLAR INC.	3,236,392	CHEN, ZHIHONG	3,236,646		
CATMASTERS, LLC	3,236,410	CHENAL, MARTIN	3,237,085		
CATRON, DREW M.	3,236,874	CHETTY, SHASHANK	3,236,885		
CAVANAUGH, JASON T.	3,236,601	CHEVRON ORONITE COMPANY LLC	3,237,045		
CAZZANIGA, STEFANO	3,236,610	CHIDAMBARAM, NACHIAPPAN	3,236,546		
CECCHIN, MICHEL	3,236,996	CHINA PETROLEUM & CHEMICAL CORPORATION	3,236,446		
CELIQUETA TORRES, ISABEL	3,236,570				
CELIQUETA TORRES, ISABEL	3,236,740				
CELIQUETA TORRES, ISABEL	3,237,057				

Index of PCT Applications Entering the National Phase

COLON, ELIZABETH TERESA	3,236,903	CULLINAN ONCOLOGY, INC.	3,237,015	DENDRO TECHNOLOGIES, INC.	3,236,974
COMA, SILVIA	3,236,424	CURON		DENG, HAINING	3,236,619
COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	3,236,996	BIOPHARMACEUTICAL (SHANGHAI) CO., LIMITED	3,236,646	DENG, XINGXING	3,236,807
CONG, BIN	3,236,605	CURT G. JOA, INC.	3,236,741	DENNIS, ELIZABETH JANE ANTONELLI	3,236,416
CONNORS, WILLIAM H.	3,236,821	CYBE CONSTRUCTION BV	3,237,082	DENNISE, JOHANNA SOSA CARRERO	3,236,406
CONOCOPHILLIPS COMPANY	3,236,817	CYBIN IRL LIMITED	3,236,624	DERKSEN, MARCO ANTON FREDERIK	3,237,049
CONRADO, ROBERT JOHN	3,236,530	CYR, BRUNO	3,236,563	DESBROSSES, FREDDY	3,236,423
CONROY, RYAN	3,237,022	D'ALESSANDRO, ANGELO	3,236,816	DESHPANDE, ADITI	3,236,564
CONSENT VAULT INC.	3,236,723	D'HONDT, ERIK	3,236,522	DEUBEL, SEBASTIEN	3,236,976
CONSTELLIUM MUSCLE SHOALS LLC	3,236,489	D'IPPOLITO, GIANFRANCO	3,237,096	DEUSCHL, FLORIAN GEORG	3,236,720
CONSTELLIUM NEUF-BRISACH	3,236,489	DAI, BO	3,236,743	DEZEN, VIC	3,236,662
CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED	3,236,540	DAI, QIN	3,236,514	DIACONESCU, ANDREEA	3,236,532
CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED	3,236,551	DAIICHI SANKYO COMPANY, LIMITED	3,236,388	DIAGNOSTRIX AS	3,237,070
CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED	3,236,561	DAMASIO, RENATO		DIBACCO, MELISSA L.	3,236,880
CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED	3,236,562	DAMASIO, RENATO AUGUSTO PEREIRA	3,237,066	DICOSOLA, GREGORY	3,236,864
COOMBES, JOSS ANTON	3,236,530	DAMASIO, RENATO AUGUSTO PEREIRA	3,237,076	DIEHN, MAXIMILIAN	3,236,814
COOPERVISION INTERNATIONAL LIMITED	3,237,106	DANA, JASON	3,236,978	DIELS, GASTON STANISLAS M	3,237,011
COOPERVISION INTERNATIONAL LIMITED	3,237,107	DANA, JASON	3,236,980	DIEP, JONATHAN	3,236,923
COPPOLA, GIOVANNI	3,237,033	DANA-FARBER CANCER INSTITUTE, INC.	3,237,090	DILDA, PIERRE	3,237,013
CORALLO, KRISTEL RITA	3,237,001	DANG, LENNY	3,236,880	DIMARCO, ANTHONY	3,236,691
CORALLO, KRISTLE	3,236,819	DANI, BASTIAN	3,237,131	DIMAURO, ERIN F.	3,236,550
CORNELISSEN, ERIK KERST	3,236,704	DARUWALLA, ANOSH	3,236,613	DINAPOLI, JOSHUA	3,236,924
CORTES-GARCIA, GUADALUPE	3,237,134	DARWISH, NOORA NAIF	3,236,797	DING, JIANHUA	3,236,848
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH	3,236,403	DAS, BISWA PRAKASH	3,236,720	DING, LIEMING	3,237,020
COUTINHO, ROBERTO	3,237,072	DAS, SUBHAMOY	3,236,731	DING, SIJIA	3,236,446
COVESTRO DEUTSCHLAND AG	3,236,772	DAVILA, MARCO	3,236,919	DING, ZHILOU	3,236,646
COVESTRO DEUTSCHLAND AG	3,236,774	DAVIS, BINH	3,237,113	DINH, HUONG	3,236,703
COX, GRAHAM J.M.	3,236,874	DAVOUDI, CEDRIC	3,236,774	DININNO, DARYL M.	3,236,849
CRAIG, NANCY	3,236,684	DAVYDOV, MAKSIM	3,236,516	DISNEY, MATTHEW D.	3,236,422
CRANE, VIRGINIA	3,236,605	DAWSON, JIN	3,236,978	DIXIT, SURJIT BHIMARAO	3,236,765
CRAWFORD, LISA	3,236,666	DAWSON, JIN	3,236,980	DIXIT, SURJIT BHIMARAO	3,236,773
CRNKOVICH, MARTIN	3,237,035	DAWSON, MATTHEW	3,236,978	DNA SCRIPT	3,236,657
CRONIN, LISA V.	3,236,890	DAWSON, MATTHEW	3,236,980	DODD, DAVID	3,236,856
CROSBY, NATHAN D.	3,236,716	DAY, ANIL	3,236,641	DOMBOWSKY, BEN	3,237,023
CROSS, JENNIFER	3,237,004	DE BAUW, PIETERJAN	3,236,680	DOMBOWSKY, LOUIS	3,237,023
CROVATO, DIEGO	3,236,466	DE HAAS, FORTUNATUS JOHANNES	3,236,449	DOMBOWSKY, MICHAEL	3,237,023
CUDWORTH, NICHOLAS	3,236,763	DE LA RUE INTERNATIONAL LIMITED	3,236,762	DONG, CUICUI	3,236,626
CUDWORTH, NICHOLAS	3,236,764	DE OLIVEIRA CAMPOS, SERGIO EDUARDO	3,237,066	DONG, JIE	3,236,626
CUDWORTH, NICHOLAS	3,236,766	DE OLIVEIRA CAMPOS, SERGIO EDUARDO	3,237,076	DONG, XIAOLONG	3,236,778
CUE BIOPHARMA, INC.	3,236,566	DE RICK, JAN	3,236,847	DORDICK, JONATHAN SETH	3,236,567
CUI, DONGBING	3,236,646	DE WEERT, EVELIEN	3,236,570	DORICH, STEPHANE	3,236,877
CUI, FANGYU	3,232,714	DE ZEN, COLBY	3,236,662	DOS SANTOS RODRIGUES, ANTONIO JOSE	3,236,642
CUI, XIQUAN	3,236,448	DEAN, JASON THADDEUS	3,236,391	DOU, DENG FENG	3,236,632
		DEBOCK, MATTHEW G.	3,236,716	DOW GLOBAL TECHNOLOGIES LLC	3,236,498
		DECOCK, FRANK	3,236,637	DOYLE, KEVIN	3,236,793
		DECOMPTTE, ALEXANDRE	3,236,783	DRAGONFLY ENERGY CORP.	3,237,039
		DEERE & COMPANY	3,236,798	DRAPEAU, SUSAN J.	3,236,873
		DEGROTTE, FLORENT	3,236,657	DREW, SAMUEL LAWRIE	3,236,553
		DELAPORTE, NICOLAS	3,236,850	DRIANT, THOMAS	3,236,563
		DELBECQ, CECILE	3,236,841	DU, FAYE LOAN	3,236,731
		DELICA AG	3,237,110	DUAN, WEIYU	3,236,627
		DEMERS, JEROME	3,236,563	DUCENTIS BIOTHERAPEUTICS LIMITED	3,236,737
		DEMONT, SEBASTIEN	3,237,131	DUFFY, KAREN	3,236,602
		DEMONT, SEBASTIEN	3,237,133	DULAT, HOLGER	3,237,018
		DEMULIER, MARIN	3,236,423	DUNN, SCOTT	3,237,103

Index des demandes PCT entrant en phase nationale

DUNN, TIMOTHY C.	3,236,830	EVOLUTION OPTIKS LIMITED	3,236,557	FOR THEM, INC.	3,237,140
DUNN, TIMOTHY C.	3,237,075	EVONIK OPERATIONS GMBH	3,236,665	FORMICA, JUSTIN JOHN	3,236,976
DUOSS, ERIC	3,236,554	EXENCY LTD	3,236,592	FORTIER, JONATHAN	3,236,563
DURET, GUILLAUME	3,236,877	EXXONMOBIL TECHNOLOGY		FORTIN, SOPHIE	3,236,525
DURIGHEL, FABIO	3,237,048	AND ENGINEERING		FORTRESS POWER	3,236,992
DURRANT, MATTHEW G.	3,236,802	COMPANY	3,236,700	FOSS, STIAN	3,236,937
DYNAENERGETICS EUROPE		EYLON, BAT-HEN	3,237,102	FOSTER, SOPHIE EVELYN	3,236,976
GMBH	3,236,425	FADER, LEE	3,236,877	FOURNIER, JEREMY	3,236,553
ECOBIOME HOLDINGS, LLC	3,236,671	FAIZAKOF, AVRAHAM	3,236,971	FOURNIER, MICHAEL ROGER	3,237,133
ECOLE NATIONALE		FALLAHIANBIJAN, FATEMEH	3,236,413	FRADERA, XAVIER	3,236,550
SUPERIEURE DE CHIMIE		FANG, JIANMIN	3,236,667	FRAMATOME GMBH	3,236,645
DE RENNES	3,236,839	FANG, XIAOQUANG	3,236,867	FRAUNHOFER-	
ECONOMOU, CHRISTOS	3,236,853	FANTON, ALISON	3,236,802	GESELLSCHAFT ZUR	
ECOP TECHNOLOGIES GMBH	3,236,896	FARANDOS, NICHOLAS	3,236,978	FOERDERUNG DER	
ECS BRANDS, LTD.	3,236,501	FARANDOS, NICHOLAS	3,236,980	ANGEWANDTEN	
EDWARDS LIFESCIENCES		FARBER, PATRICK	3,236,765	FORSCHUNG E.V.	3,236,469
CORPORATION	3,236,707	FARNEY, ELLIOT P.	3,236,854	FRAUNHOFER-	
EDWARDS LIFESCIENCES		FAROKHYAR, KIYOU MARS	3,236,938	GESELLSCHAFT ZUR	
CORPORATION	3,236,717	FARRELL, THOMAS JAMES	3,237,016	FOERDERUNG DER	
EDWARDS LIFESCIENCES		FAUL, STEPHEN	3,236,409	ANGEWANDTEN	
CORPORATION	3,236,720	FAYGENBOIM-ORNAI,		FORSCHUNG E.V.	3,237,138
EDWARDS LIFESCIENCES		ROTEM	3,237,102	FREEMAN, CHLOE	3,237,140
CORPORATION	3,236,879	FBD BIOLOGICS LIMITED	3,236,718	FREIER, SUSAN M.	3,236,950
EDWARDS, CHRISTOPHER		FEDORYKA, DAMIAN B.	3,236,905	FREILICH, SHAY	3,237,102
SCOTT	3,236,976	FENAU, MARTIJN	3,236,708	FRESENIUS MEDICAL CARE	
EGAWA, KO	3,236,392	FENG, QIKAI	3,236,622	HOLDINGS, INC.	3,237,035
EIJSBOUTS-SPICKOVA, SONA	3,236,960	FENG, YUE	3,236,742	FRIDECO AG	3,236,492
EITSCHBERGER, CHRISTIAN	3,236,425	FENG, ZHAO	3,236,524	FRITZ, JEFFREY W.	3,236,741
EL-KADY, MAHER F.	3,236,862	FERNANDEZ, ANGELICA	3,236,730	FROMM, GEORGE	3,236,815
EL-MONAJJED, KHALED	3,236,557	FEYEN, MATHIAS	3,236,513	FROMM, GEORGE	3,236,824
ELC MANAGEMENT LLC	3,236,819	FIBERTEX NONWOVENS A/S	3,236,994	FROST, JENNIFER M.	3,236,853
ELC MANAGEMENT LLC	3,236,997	FIBERTEX PERSONAL CARE		FROST, JENNIFER M.	3,236,854
ELC MANAGEMENT LLC	3,237,001	A/S	3,237,017	FRYSH, JEFFREY	3,236,999
ELEAPPOWER LTD.	3,236,738	FIDANZA, MARIO	3,236,959	FU, LI	3,236,567
ELI LILLY AND COMPANY	3,236,547	FIDELITY INFORMATION		FUDIO MUNOZ, SALVADOR	3,237,009
ELI LILLY AND COMPANY	3,236,555	SERVICES, LLC	3,236,701	FUKUNAGA, KENJI	3,236,538
ELI LILLY AND COMPANY	3,236,560	FIEBIG, JOACHIM EDMUND	3,237,017	FULARA, J?DREK	3,236,691
ELI LILLY AND COMPANY	3,237,142	FILMER, ANTHONY OWEN	3,236,447	FUNDNEIDER, THOMAS	3,237,137
ELI LILLY COMPANY	3,236,504	FINRIP	3,236,996	FUSION PHARMACEUTICALS	
ELIAS-NOMIE, KRYSTLE	3,236,872	FISCHER, MALTE	3,236,665	INC.	3,237,041
ELIYAHU, NITZAN	3,236,592	FITZELL, JOHN	3,236,941	G2GBIO, INC.	3,236,688
ELMEKILDE HANSEN, LARS	3,236,629	FLAGSHIP PIONEERING		GAIL, PHILIPPE	3,236,785
ELORANTA, TEEMU PAAVALI	3,237,044	INNOVATIONS VII, LLC	3,236,416	GAL, BALINT	3,236,553
EMERY, DARYLL	3,236,874	FLANDERS, NICHOLAS H.	3,236,864	GALASKEWICZ, ROBIN	3,236,691
EMLEY, BENJAMIN JASON	3,236,973	FLEISHER, ADAM S.	3,236,504	GALET, OLIVIER	3,236,674
ENALARE THERAPEUTICS		FLEISHER, ADAM S.	3,236,547	GALILEY, MEGAN	3,236,768
INC.	3,236,586	FLEISHER, ADAM S.	3,236,555	GALLICHAN, WILLIAM	
ENDOMAGNETICS LTD.	3,236,559	FLEISHER, ADAM S.	3,236,560	SCOTT	3,236,924
ENERGY MACHINES APS	3,236,795	FLEMING, EMILY D.	3,236,493	GALLOWAY, ANJA	
ENGLAND, WILL	3,236,395	FLEMING, EMILY D.	3,236,507	RUMPLECKER	3,236,706
ENGLAND, WILL	3,236,397	FLEMING, EMILY D.	3,236,510	GALLOWAY, ANJA	
ENGLAND, WILL	3,236,400	FLIEG, RALF	3,236,419	RUMPLECKER	3,236,866
EOTVOS LORAND		FLIEG, RALF	3,236,420	GALLOWAY, ANJA	
TUDOMANYEGYETEM	3,236,828	FLIEG, RALF	3,236,421	RUMPLECKER	3,236,914
EPILADY 2000 LLC	3,237,006	FLOWER, JESSICA	3,237,063	GAMBERI, FRANCESCO	3,236,503
EPIROC ROCK DRILLS		FLSMIDTH A/S	3,236,927	GAN, MING	3,237,147
AKTIEBOLAG	3,236,615	FLUENT METAL INC.	3,236,965	GAN, YONG	3,236,956
EPIZYME, INC.	3,236,821	FLUGUM, AUSTIN	3,236,650	GANDOLA, KENT	3,236,606
EPPLIN, MATTHEW	3,236,553	FLUGUM, AUSTIN	3,236,655	GANESAN, RAJKUMAR	3,237,038
ESSITY HYGIENE AND		FLYNN, PETER	3,237,016	GANGULY, ABANTIKA	3,236,885
HEALTH AKTIEBOLAG	3,236,633	FOOTPRINT		GAO, DALI	3,237,007
EVENSON, CARL R.	3,236,801	INTERNATIONAL, LLC	3,236,781	GAO, LI	3,236,956
EVERLAST TECHNOLOGY		FOOTPRINT		GAO, LUSHENG	3,236,622
PTY LTD	3,236,514	INTERNATIONAL, LLC	3,236,787	GAO, PENG	3,236,498

Index of PCT Applications Entering the National Phase

GAO, YIBAO	3,236,807	GOLDMAN, REBECCA L.	3,236,924	GUO, SHIYAN	3,236,956
GAO, YUAN	3,236,743	GOLDSTEIN, EDWARD	3,237,130	GUO, ZHIDE	3,236,635
GARMON, RONNIE JACK	3,236,973	GOMEZ MARTIN-AMBROSIO, LAURA	3,237,118	GUPTA, PIYUSH	3,236,693
GATES CORPORATION	3,236,871	GOMEZ, ABDUL LUKE	3,182,073	GUPTA, SUPRIYA	3,236,869
GATHRIGHT, WILLIAM	3,236,992	GONCALVES MACEDO DE MEDEIROS, FABIO	3,237,126	GUROVICH, NIKOLAI	3,236,879
GAUCHAT, NICOLAS	3,236,506	GONG, XIJIAN	3,236,861	GURYLEVA, MARIIA	3,236,872
GAUTHIER, CHRISTOPHER	3,236,563	GONZALES, OSCAR	3,236,413	H. LEE MOFFITT CANCER CENTER AND RESEARCH INSTITUTE INC.	3,236,919
GAWRON, GRZEGORZ	3,236,962	GONZALEZ, RIC	3,236,781	H55 SA	3,237,131
GAYES, DIANE	3,236,711	GOODRICH, BRIAN C.	3,236,798	H55 SA	3,237,133
GAYES, JAMES M.	3,236,711	GOODWIN, RANDY M.	3,237,008	HAAG, MONICA	3,236,513
GC CELL CORPORATION	3,237,016	GOOGLE LLC	3,236,957	HAAS KRAAN B.V.	3,236,449
GE, JUNYOU	3,236,632	GOPANI, HARDIP RAJESHBHAI	3,236,924	HAAS, KLARA	3,236,570
GEA WESTFALIA SEPARATOR GROUP GMBH	3,236,761	GORANSSON, HANS-GORAN	3,236,795	HAASE, CHRISTIAN	3,236,432
GEBBINK, JEROEN GERRIT ANTON	3,236,676	GOSLO, LLC	3,236,973	HACKFORT, THOMAS	3,237,143
GEERS, GREGORY A.	3,236,964	GOTTFRIED, YOSSEI	3,237,102	HADJITHOMAS, MICHALIS	3,236,744
GEHRTZ, PAUL	3,237,030	GOTTLIEB, KATRIN	3,236,772	HADJITHOMAS, MICHALIS	3,236,790
GEIER, MATTHIAS	3,236,469	GOTTSZKY, JORG	3,237,143	HAGAL TECHNOLOGY AS	3,237,116
GEIER, MATTHIAS	3,237,138	GOUTERMAN, ALEXEI	3,236,663	Haidacher, Peter	3,236,649
GELEST, INC.	3,236,595	GRABBE, ULRICH	3,237,137	HAIHE BIOPHARMA CO., LTD.	3,236,956
GELFI, ELENA	3,236,390	GRABER, ALEXANDER	3,236,768	HAIKIN, LEV	3,236,971
GEM OASIS, LLC	3,236,999	GRAEF, THORSTEN	3,237,016	HAINES, CARTER S.	3,236,864
GEN THREE SOLUTIONS, LLC	3,236,611	GRAHN, FREDRIK	3,236,615	HAKIM, MOTTI	3,237,102
GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC.	3,236,399	GRANDA, CESAR GRANSTREM, OLEG KONSTANTINOVICH	3,237,036 3,236,823	HALAC, MEHMET ALI	3,236,416
GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC.	3,236,401	GREEN INNOVATION GMBH	3,236,727	HALBACH, FELIX	3,236,891
GENESYS CLOUD SERVICES, INC.	3,236,971	GREWAL, IQBAL S.	3,237,038	HALEY, BRIAN	3,236,816
GENG, MEIYU	3,236,956	GRIFFIN, DAVID	3,237,113	HAMMOND, DAVID S	3,237,107
GEORGIA TECH RESEARCH CORPORATION	3,236,700	GRIMALDI, ANGELO	3,236,389	HAN, GI BEOM	3,236,929
GEORGIAMUNE INC.	3,236,906	GRIMALDI, ANGELO	3,236,986	HAN, JUNG MIN	3,236,929
GEORGIAMUNE INC.	3,236,912	GRISWOLD-PRENNER, IRENE	3,236,572	HANBURY, ORION	3,236,706
GEORGIAMUNE INC.	3,236,916	GRITSTONE BIO, INC.	3,236,959	HANBURY, ORION	3,236,914
GEORGIAMUNE INC.	3,236,920	GROSS, SILVIA	3,237,110	HANGZHOU DAC BIOTECH CO., LTD.	3,236,852
GERDES, ANNIKA	3,236,768	GROSSARD, MATHIEU	3,236,996	HANGZHOU DAC BIOTECH CO., LTD.	3,236,754
GERMAIN, CHARLES-BENOIT	3,236,643	GROSZEK, JOEY	3,236,716	HANGZHOU DAC BIOTECH CO., LTD.	3,236,930
GERMAIN, FABRICE	3,236,953	GROVE, WILLIAM	3,236,822	HANSEN, MICHAEL RIIS	3,237,038
GERMINARO, MATTHEW	3,236,779	GROVES, JAMES WILLIAM	3,236,401	HANSEN, MORTEN, RISE	3,237,017
GESLIN, MARIE CECILE	3,236,775	GRUBA, NATALIA	3,236,947	HANSHOW TECHNOLOGY CO., LTD.	3,236,844
GET A-HEAD INC.	3,236,918	GRZANKA, ANDREW	3,236,935	HANSHOW TECHNOLOGY CO., LTD.	3,236,857
GEUS, HANS-GEORG	3,237,017	GRZANKA, ANDREW	3,236,941	HANSHOW TECHNOLOGY CO., LTD.	3,237,088
GHAZI, BADIH	3,236,957	GU, JINMING	3,236,646	HAO, WENYUE	3,236,747
GIACOMETTI, SYLVIANNE	3,236,631	GU, WEI	3,236,861	HAO, YUMENG	3,236,416
GIBBONS, WILLIAM JOHNATHAN JR.	3,237,063	GU, XIANRUI	3,236,892	HAQUE AKM, ASHIQUL	3,236,653
GIFFEY, ZACHARY J.	3,236,741	GUANGZHOU SIGTENNA TECHNOLOGY CO., LTD.	3,236,728	HAQUE, AKM, ASHIQUL	3,236,638
GIFFORD, HOWARD	3,236,511	GUERFI, ABDELBAST	3,236,850	HARANDI, OMID F.	3,236,678
GIFFORD, HOWARD	3,237,136	GUERRERO, JOSEPH	3,236,694	HARDMAN, CLAYTON	3,236,553
GIL LEY, ALEJANDRO	3,236,773	GUERRETTAZ, LISA	3,237,016	HARRIS, BRIAN R. JR.	3,236,509
GILBERT, PHILIPPE- ALEXANDRE	3,237,134	GUGLIELMO, ALBERTO	3,236,389	HARVEY, BENJAMIN JAMES	3,236,505
GIRARD-SAHUN, FANNY	3,236,636	GUGLIELMO, ALBERTO	3,236,986	HARVEY, CHARLES	3,236,954
GLENNON, KEVIN JAMES	3,236,832	GUIGLIONDA, GILLES	3,236,489	HAS LLC	3,236,679
GLENNON, KEVIN JAMES	3,236,840	GUILLETTE, JEAN	3,236,563	HASLET, DAVID K.	3,236,493
GM INNOVATIONS LIMITED	3,236,948	GUIMARD, DENIS	3,236,841	HATHWAY, LAURA	3,236,497
GOFF, JONATHAN D.	3,236,595	GUIRAO CANO, SERGIO	3,236,466	HAUSKE, SIBYLLE JENNY	3,236,890
GOLDBERG, SHALOM	3,236,851	GUNERA, JAKUB	3,236,433	HAWLEY, STEPHEN	3,237,027
GOLDMAN, DOROTHEE	3,237,070	GUO, HUIHUI	3,236,754	HAYASHI, NORIMITSU	3,236,538
		GUO, HUIHUI	3,236,852	HAYES, ALEX JOHN CULLEN	3,236,837
		GUO, HUIHUI	3,236,930	HE, HONGYAN	3,236,861
		GUO, JUNHUI	3,236,747	HE, HONGYUAN	3,236,528
		GUO, LAN	3,236,391		
		GUO, RONG	3,236,627		

Index des demandes PCT entrant en phase nationale

HE, MEIJIA	3,236,498	HSU, PATRICK D.	3,236,802	INSTITUT NATIONAL DES	
HE, PENG	3,236,567	HUANG, HUI	3,236,632	SCIENCES APPLIQUEES	
HEBRARD, YOANN	3,236,753	HUANG, JAMES HE	3,236,624	DE RENNES	3,236,839
HEGED?S, BALAZS	3,236,828	HUANG, YUANYUAN	3,236,754	INSURANCE SERVICES	
HEINRICH, TIMO	3,236,433	HUANG, YUANYUAN	3,236,852	OFFICE, INC.	3,236,556
HEINRICH, TIMO	3,237,030	HUANG, YUANYUAN	3,236,930	INTERFACIAL	
HEISER, RYAN	3,236,735	HUANG, ZHIQIANG	3,236,619	CONSULTANTS LLC	3,236,863
HELANDER, MICHAEL	3,236,686	HUAWEI TECHNOLOGIES		INVENTAGE LAB INC.	3,236,685
HELIN, JARI	3,236,955	CO., LTD.	3,236,524	INVENTAGE LAB INC.	3,236,690
HELION ENERGY, INC.	3,237,115	HUAWEI TECHNOLOGIES		INVISTA TEXTILES (U.K.)	
HEMPHILL, JAMES B.	3,236,678	CO., LTD.	3,237,147	LIMITED	3,236,682
HENDRIKS, LAMBERTUS		HUBBELL, JEFFREY	3,236,808	IONIS PHARMACEUTICALS,	
NICOLAAS	3,237,082	HUBLER, FRANCIS	3,236,396	INC.	3,236,950
HENLEY, CHRISTOPHER		HUBSCH, CHRISTIAN	3,236,727	IORIO-MORIN, CHRISTIAN	3,236,438
ROBERT	3,236,640	HUGHES, CLAY	3,236,940	ISONO, YOKO	3,236,786
HEPWORTH, DAVID		HUGHES, JOHN E.	3,236,601	ITO, HIROMOTO	3,224,100
GWYDDON	3,236,900	HUGHES, JOHN-DOUGLAS		ITOH, RYUSEI	3,236,388
HERLE, BART	3,236,894	MATTHEW	3,236,825	ITRON, INC.	3,236,715
HERNANDEZ, CRISTOBAL R.	3,236,720	HUIZINGA, ROBERT B.	3,237,004	IVASHKO, ANNA C.	3,236,700
HERRE, JUERGEN	3,236,469	HULDBERG, JOHAN	3,236,393	IYER, VARSHA V.	3,236,880
HERRE, JUERGEN	3,237,138	HULTENIUS, ROY	3,236,399	JACOB, JACQUILENE	3,236,887
HERRMAN, MARISSA	3,236,408	HULTENIUS, ROY	3,236,401	JACOBSON, SVEN	3,236,462
HERRON-OLSON, LISA	3,236,874	HUME, JOSHUA	3,236,763	JAFFEE, ARTHUR	3,236,501
HERRY, DEBORAH	3,236,953	HUME, JOSHUA	3,236,766	JAHANGIR, EMILIA	3,236,732
HESSLINGER, CHRISTIAN	3,236,757	HUNT, NEIL	3,236,682	JAIN, TUSHAR	3,236,868
HICGUET, MATTHIEU	3,236,839	HUNTER DOUGLAS		JAKUBIEC, MARCIN	3,236,670
HIDDING, MICHAEL	3,236,927	INDUSTRIES B.V.	3,236,938	JANG, MI YOUNG	3,237,119
HIEBER, GISELA	3,236,513	HURON, GEORGE D.	3,237,045	JANSEN, LAUREN E.	3,236,873
HIGGINS, JOSEPH J.	3,236,678	HURST, GREG	3,236,453	JANSEN, TOBIAS	3,236,464
HIGGINS, JOSEPH J.	3,236,684	HUSEIN, MAEN MOH'D	3,236,797	JANSSEN BIOTECH, INC.	3,236,779
HILDEBRAND, JENS	3,236,665	HUSMANN, CHRISTOPH	3,236,762	JANSSEN BIOTECH, INC.	3,236,851
HILL'S PET NUTRITION, INC.	3,237,074	HUSSAIN, SAMI	3,236,572	JANSSEN BIOTECH, INC.	3,237,038
HILL, AUSTIN	3,236,664	HUSTON, MARSHALL	3,236,677	JANSSEN PHARMACEUTICA	
HINRICHS-TONTRUP,		HUXLEY, PHILIP	3,236,737	NV	3,237,011
NATALIA	3,236,665	HUY, NGUYEN DINH	3,236,831	JANSSON, OLOF	3,236,418
HIRANO TECSEED CO., LTD.	3,236,598	HYDRO-QUEBEC	3,236,470	JAZIRI, FATEN	3,236,657
HIRANO, TAKAYUKI	3,237,022	HYDRO-QUEBEC	3,236,850	JENNE, STEPHAN	3,236,731
HIRATA, KENTAROU	3,236,668	HYLAND, WILLIAM KYLE	3,236,694	JENSEN, IAN MATTHEW	3,236,855
HITGEN INC.	3,236,632	HYPERTHERM, INC.	3,237,022	JEONG, DOO SEONG	3,236,499
HIVET, ROMAIN	3,236,841	ICAHN SCHOOL OF		JEONG, NA RAE	3,237,119
HOEKMAN, LEENDERT	3,237,002	MEDICINE AT MOUNT		JERHAOUI, SOUFYAN	3,237,011
HOENIGSCHMID, ANDREAS	3,236,733	SINAI	3,237,015	JEUNG, SUNG HWA	3,236,976
HOFFMAN, AMANDA	3,236,506	IDORSIA		JI, JUNWEI	3,236,641
HOFFMANN, LUKAS	3,236,651	PHARMACEUTICALS LTD	3,236,396	JI, YAPING	3,236,844
HOHNE, AILEEN	3,236,432	IFP ENERGIES NOUVELLES	3,236,846	JI, YAPING	3,236,857
HOLLISTER INCORPORATED	3,236,803	IFP ENERGIES NOUVELLES	3,236,985	JI, YAPING	3,237,088
HOLMES-LIBBIS, JOHN	3,236,500	IKUBO, MASAYA	3,236,538	JIA, JUNXIANG	3,236,754
HOLMGREN, FREDRIK	3,236,615	IN3BIO LTD.	3,236,522	JIA, JUNXIANG	3,236,852
HOME DEPOT		INCISIVE GENETICS, INC.	3,236,664	JIANG, CIZHONG	3,236,552
INTERNATIONAL, INC.	3,236,448	INCOAX NETWORKS AB	3,236,393	JIANG, HONG	3,236,446
HONG, SUE-JEAN	3,236,959	INFINIUM TECHNOLOGY,		JIANG, QI	3,236,844
HONG, YEONGJIN	3,236,831	LLC	3,236,706	JIANG, QI	3,236,857
HONG, ZHI	3,236,407	INFINIUM TECHNOLOGY,		JIANG, QI	3,237,088
HOOPER, BRANDON	3,236,871	LLC	3,236,866	JIANG, SIYI	3,236,861
HORCHULHAK, ALLAN		INFINIUM TECHNOLOGY,		JIANG, XUEYUAN	3,236,748
FRANCISCO	3,237,066	LLC	3,236,914	JIANGSU HANSOH	
HORCHULHAK, ALLAN		INOVA MEDICAL PTY LTD	3,236,837	PHARMACEUTICAL	
FRANCISCO	3,237,076	INSTITUT NATIONAL DE LA		GROUP CO., LTD.	3,236,619
HORNES, DARREN R.	3,236,741	RECHERCHE		JIN, JIAN	3,237,015
HOU, SHIGUO	3,236,857	SCIENTIFIQUE	3,237,085	JIN, JING	3,236,997
HOUTAPPELS, JEROEN		INSTITUT NATIONAL DE LA		JIN, LIANG	3,236,622
GABRIEL FRANCISCUS	3,237,049	SANTE ET DE LA		JODA, HAMDI	3,236,935
HOVER INC.	3,236,528	RECHERCHE		JODOIN, RAYMOND HENRY	3,236,505
HRUSCHKA, STEFFEN	3,236,761	MEDICALE(INSERM)	3,237,013	JOHN INNES CENTRE	3,236,897

Index of PCT Applications Entering the National Phase

JOHNSON & JOHNSON CONSUMER INC.	3,236,775	KEENEY, LUKE MARK	3,236,447	KINZE MANUFACTURING, INC.	3,236,655
JOHNSON, RICHARD	3,236,725	KELA, TIMO	3,236,845	KIRTLEY, DAVID	3,237,115
JONES, CHRISTOPHER T.	3,236,708	KELLEY, BRIDGET	3,236,694	KISBYE, KENNETH	3,236,900
JONES, JOHN ANDREW	3,236,925	KELTON, JOHN	3,236,833	KISHIMOTO, TAKASHI KEI	3,237,037
JONES, JOHN ANDREW	3,237,063	KENYON, BARTON JOHN	3,236,976	KISIEL, JOHN B.	3,236,697
JONES, MARCUS	3,236,843	KESER?, GYORGY	3,236,828	KLAFFL, SIMON	3,236,772
JONES, MICHAEL K	3,236,565	KESHAVARAJ, RAMESH	3,236,658	KLEANTHOS, HAROLD	3,237,134
JOOSS, KARIN	3,236,959	KETJEN NETHERLANDS B.V.	3,236,960	KLEMT, CHRISTIAN	3,236,464
JORDAN, MARCO	3,236,464	KETTYLE, MATTHEW SCOTT	3,236,763	KLICKI, KEVIN	3,236,416
JU, ALBERT	3,236,413	KETTYLE, MATTHEW SCOTT	3,236,764	KLOECKNER, WOLF	3,236,774
JUNG, HAE JUNG	3,236,929	KETTYLE, MATTHEW SCOTT	3,236,766	KLUSKENS, LUC PETER ELEONORE MARIE	3,237,021
JUNG, HYE-MI	3,237,012	KHADE, PRATIK	3,236,693	KNOER, TORSTEN	3,236,419
JUNG, HYEJUNG	3,236,688	KHAKHAR, ARJUN DEVANG	3,236,416	KNOWLES, SCOTT	3,236,735
JUNG, SU-TAEK	3,237,122	KHALED, YACINE	3,236,715	KNUTSEN, RUNE KRISTIAN	3,236,676
JUNG, WANG MO	3,236,929	KHLEIF, SAMIR	3,236,906	KOBACH, ANDREW C.	3,236,544
JUNTUNEN, RAIMO	3,236,661	KHLEIF, SAMIR	3,236,912	KOBACH, ANDREW C.	3,236,549
JUO, ZONG SEAN	3,236,718	KHLEIF, SAMIR	3,236,916	KOBER, SUSAN	3,236,757
JUVONEN, ISMO	3,237,044	KHLEIF, SAMIR	3,236,920	KOCH, JOACHIM	3,237,016
KABOLI, SHIRIN	3,236,850	KHODOS, BORIS	3,236,577	KOCH, JOACHIM	3,237,018
KADAN, AMIT	3,236,773	KHORKOVA, SVETLANA	3,236,872	KOEPKE, DANIEL	3,236,513
KAIPAINEN, JANNE ERIK ANTERO	3,237,044	KHOUDIAKOV, SERGUEI	3,236,663	KOETZNER, LISA	3,236,433
KALEEM, KAREEM	3,236,836	KHUU, NANCY HOANG	3,236,720	KOIKE, KEISUKE	3,236,533
KALIDINDI, SANYASI R.	3,237,127	KI, JUNG SIK	3,236,913	KOLLER, KEVIN	3,236,399
KAMATANI, AKITO	3,237,111	KIANI, MASSI JOE E.	3,236,523	KOLLER, KEVIN	3,236,401
KAMATH, PRITISH	3,236,957	KIERKELS, JULES THEODORUS ANTONIUS	3,237,104	KONG, DEHUI	3,237,007
KAMINSKI, KRZYSZTOF	3,236,670	KIM, DALE	3,237,042	KONIECZNY, KRZYSZTOF	3,236,895
KAMINSKI, RAFAL	3,236,670	KIM, DANNY	3,236,695	KOOLMAN, HANNES, FIEPKO	3,236,894
KAMMERHOFER, JANA CHRISTINA	3,236,570	KIM, GEONHO	3,236,688	KOPPESER, MICHAEL	3,236,871
KAMMERHOFER, JANA CHRISTINA	3,236,740	KIM, HAK NYOUN	3,236,499	KOREA ZINC CO., LTD.	3,211,942
KAMMERHOFER, JANA CHRISTINA	3,237,057	KIM, HAK YOON	3,236,929	KOROS, WILLIAM J.	3,236,700
KANE, GRACE MCALPINE	3,236,763	KIM, HAK-KYUN	3,237,105	KOROTIAEV, MIKHAIL	3,236,469
KANE, GRACE MCALPINE	3,236,764	KIM, HAN WOOL	3,237,119	KOROTIAEV, MIKHAIL	3,237,138
KANG, PENG	3,236,535	KIM, HYOJIN	3,237,016	KOSER, THOMAS	3,237,032
KANG, SANG-DEOK	3,236,520	KIM, JIN-GON	3,237,122	KOSKINEN, JUSSI-PEKKA	3,236,456
KANISKAN, H. UMIT	3,237,015	KIM, JINWOO	3,236,744	KOTLOV, NIKITA	3,236,872
KANKE, ROGER	3,236,905	KIM, JINWOO	3,236,790	KOUSTENIS, ANDREW	3,236,424
KANNO, RENTAROU	3,236,538	KIM, JONG WOO	3,236,929	KRAKOWSKY, JOAN M.	3,236,624
KAPADIA, JEEGARKUMAR SUBHASHCHANDRA	3,236,976	KIM, JU HEE	3,236,685	KRAMPE, PAUL	3,236,651
KAPELEWSKI, MATTHEW T.	3,236,700	KIM, JU HEE	3,236,690	KRANZ, JAMES	3,236,827
KAPELYAN, ELYA JOSEPH	3,236,932	KIM, KILYOUNG	3,236,546	KRANZ, JAMES	3,237,146
KAPLAN, MARK P.	3,236,798	KIM, MIN CHEOL	3,211,942	KRAUSE, BERND	3,236,419
KARIMI ALAGHEHBAND, SEPEHR	3,223,464	KIM, SANG-YEOL	3,237,105	KRAUSE, BERND	3,236,421
KARMALI, PRIYA PRAKASH	3,236,675	KIM, SO HYUK	3,237,119	KREIS, MARCUS	3,236,649
KARR, RONALD	3,236,542	KIM, TAE-JONG	3,237,122	KREMER, JAMES MICHAEL	3,236,416
KARVELIS, POVILAS	3,236,532	KIM, YE EUN	3,237,119	KREPPS, ZACHARY	3,236,506
KARWACKI, LUKASZ	3,236,513	KIM, YOUNG JOON	3,236,875	KRESSE, DAVID E.	3,236,508
KASAI, ERIKA	3,236,404	KIM, YOUNG JOON	3,236,876	KRETZ, COLIN	3,236,833
KASHINTSEV, ALEKSEI ARIEVICH	3,236,823	KIMMER, ROBERT J.	3,236,711	KRIECHBAUM, KONSTANTIN	3,237,066
KASHIV BIOSCIENCES, LLC	3,236,722	KIMMERLING, ROBERT	3,236,931	KRIECHBAUM, KONSTANTIN	3,237,076
KASSLER, NIKOLAS	3,236,611	KIMURA, RYO	3,236,539	KRIENKE, DOMINIK	3,236,761
KATSUME, TADASHI	3,236,450	KINETO LAB KFT.	3,236,828	KRISHNAMANI, VENKATRAMANAN	3,236,523
KAVE, DENNIS MATTHEW	3,236,681	KING, JAMES EDWARD	3,236,605	KRISHNAMOORTHY, MURALI	3,236,899
KAVE, LAUREN ANNE	3,236,681	KINGFISHER MEDICAL INC. KINIKSA PHARMACEUTICALS, GMBH	3,236,870 3,236,827	KROL, ANDRZEJ	3,236,511
KAVE, TYLER MATTHEW	3,236,681	KINIKSA PHARMACEUTICALS, GMBH	3,237,146	KROL, ANDRZEJ	3,237,136
KE, JIANHUANG	3,236,551	KINKEL, LINDA L.	3,236,805	KRONES AKTIENGESELLSCHAFT	3,236,649
KEEGAN, RICHARD G.	3,236,798	KINZE MANUFACTURING, INC.	3,236,650	KROSSCHELL, JUSTIN	3,236,692
				KRUCHOWY, EVAN	3,236,414
				KRUSE, NIKKI D.	3,236,731
				KUHL, KENDRA P.	3,236,864
				KUHN JR., BERNARD A.	3,236,964

Index des demandes PCT entrant en phase nationale

KUHN, PHILIPP	3,236,420	LEE, CHANG-HOON	3,236,480	LI, RICHARD HUI	3,236,944
KUHN, PHILIPP	3,236,421	LEE, DONG JUN	3,236,944	LI, RICHARD HUI	3,236,949
KUKURA, MADISON PAIGE	3,236,720	LEE, DONG JUN	3,236,949	LI, SHIYAN	3,236,545
KUMAR, ANAND T.N.	3,236,899	LEE, GEORGE L.	3,237,078	LI, TIEJUN	3,237,027
KUMAR, JAYASHREE	3,236,416	LEE, HEEYONG	3,236,688	LI, WENJUN	3,236,754
KUNG, CHARLES	3,236,880	LEE, HO HYUN	3,237,119	LI, WENJUN	3,236,852
KUO, PAN-HSIEN	3,236,718	LEE, HYOUNG SUK	3,236,749	LI, WENJUN	3,236,930
KUZNETSOV, GLEB	3,236,602	LEE, JAE HYUN	3,236,749	LI, WENQIANG	3,236,558
KWACK, HO-BEOM	3,236,480	LEE, JAE-EUN	3,237,105	LI, YAO	3,236,540
KYM, PHILIP R.	3,236,853	LEE, JAE-GIL	3,236,480	LI, YAO	3,236,551
KYM, PHILIP R.	3,236,854	LEE, JE-JUN	3,237,105	LI, YAO	3,236,561
KYOTO UNIVERSITY	3,236,541	LEE, JINWOO	3,236,688	LI, YAO	3,236,562
L'AIR LIQUIDE SOCIETE		LEE, JUHAN	3,236,688	LI, YONG	3,236,517
ANONYME POUR		LEE, KWAN-HEE	3,237,014	LI, ZIMENG	3,236,728
L'ETUDE ET		LEE, KWAN-HEE	3,237,105	LIANG, MIN	3,236,844
L'EXPLOITATION DES		LEE, KYUMAN	3,236,875	LIANG, MIN	3,236,857
PROCEDES GEORGES		LEE, KYUMAN	3,236,876	LIANG, MIN	3,237,088
CLAUDE	3,236,374	LEE, RICHARD	3,236,950	LIEBHERR-AEROSPACE	
LACKEY, JEREMY	3,236,856	LEE, SANG WOOK	3,236,929	TOULOUSE SAS	3,236,634
LACOSTE-BOURGEACQ,		LEE, SANGHYUN	3,237,016	LIFEMINE THERAPEUTICS,	
ANNE-SOPHIE	3,237,142	LEE, SONG HEE	3,237,119	INC.	3,236,744
LAFONT, RENE	3,237,013	LEE, SOON-GI	3,236,520	LIFEMINE THERAPEUTICS,	
LAJOUS, HERVE	3,236,785	LEE, YOUNG HWAN	3,236,929	INC.	3,236,790
LAKATOS, GREGORY	3,236,765	LEE, YUN-JU	3,237,014	LIGNAROLO, VITTORIO	3,236,411
LAMBERT, ARNOLD	3,236,985	LEFEBVRE, MARJORIE	3,236,775	LILIENTHAL, HEIKO	3,236,938
LAMORA, JOSHUA	3,236,678	LEGAY, HERVE	3,237,080	LIM, HOONG CHUIN	3,236,602
LAN, HONG	3,237,020	LEHN, PETER WALDEMAR	3,236,738	LIM, JAE-WON	3,237,105
LANE, ASHLEY MICHAEL		LEITH, ANDREW	3,236,987	LIM, YE SEUL	3,237,119
JAMES	3,237,068	LELARGE, ANNE	3,236,841	LIMONE, CLAUDIO	3,236,603
LANE, CAMERON THOMAS	3,236,394	LELETI, MANMOHAN REDDY	3,236,553	LIN, CHIEN-YUAN	3,236,416
LANE, MICHAEL T.	3,236,961	LEONARDI, GIULIANO	3,236,727	LIN, YU-CHENG	3,236,744
LANGAUER, ANDREAS	3,236,896	LES SOLUTIONS ZERO		LIN, YU-CHENG	3,236,790
LANGE DE OLIVEIRA, ARMIN	3,236,513	DECHET FILLGOOD INC.	3,236,525	LIN, YUAN	3,236,861
LANGILLE, MICHAEL	3,236,489	LESCARBEAU, ANDRE	3,236,861	LING, JIAN	3,236,730
LANNAN, MEGAN BRITTANY	3,236,504	LESNER, ADAM	3,236,947	LINHARDT, ROBERT JOHN	3,236,567
LANNAN, MEGAN BRITTANY	3,236,547	LEVAC, DAN	3,236,958	LIPOCINE, INC.	3,236,546
LANNAN, MEGAN BRITTANY	3,236,555	LEVCHENKO, ANDRE	3,236,940	LIPPKY, KRISTIAN	3,236,464
LANNAN, MEGAN BRITTANY	3,236,560	LEVEL 3 COMMUNICATIONS,		LISTOVSKY, TAMAR	3,237,114
LANZATECH, INC.	3,236,530	LLC	3,236,600	LITTEN, JASON B.	3,237,016
LAPOINTE, SIMON	3,236,438	LEVI, TAMIR S.	3,236,879	LITTLE CHONK COMPANY	3,237,103
LAROUCHE, FRANCOIS	3,236,850	LEWINSON, RYAN T.	3,236,825	LIU, CHANG	3,236,747
LARRICK, JAMES WILLIAM	3,237,004	LEWIS, CODY M.	3,236,477	LIU, CHUAN	3,236,632
LATECOERE	3,236,785	LEWKOWICZ, AYALA	3,237,102	LIU, DONGDONG	3,236,553
LATHROP, JEREMY LEN	3,236,565	LG ENERGY SOLUTION, LTD.	3,236,480	LIU, GUANGFU	3,236,742
LATIL, MATHILDE	3,237,013	LG ENERGY SOLUTION, LTD.	3,236,749	LIU, HANXIANG	3,236,742
LAU, JEFFREY A.	3,236,905	LG ENERGY SOLUTION, LTD.	3,236,929	LIU, JINMING	3,236,632
LAUTT, WAYNE W.	3,237,005	LG ENERGY SOLUTION, LTD.	3,237,012	LIU, JOYCE	3,236,731
LAVOIE, JEAN-MICHEL	3,237,126	LG ENERGY SOLUTION, LTD.	3,237,014	LIU, LEI	3,236,956
LAWRENCE LIVERMORE		LG ENERGY SOLUTION, LTD.	3,237,105	LIU, LI	3,236,627
NATIONAL SECURITY,		LG ENERGY SOLUTION, LTD.	3,237,122	LIU, QIAN	3,236,632
LLC	3,236,554	LG ENERGY SOLUTION, LTD.	3,237,128	LIU, RONGHUA	3,237,106
LAWSON, KENNETH VICTOR	3,236,553	LG ENERGY SOLUTION, LTD.	3,237,132	LIU, WENJU	3,236,552
LAYER, JONATHAN	3,236,994	LHO, EUN SOL	3,236,929	LIU, XIAOLEI	3,236,754
LAZAR, MARINA	3,236,665	LI, DAVID M.	3,236,798	LIU, XIAOLEI	3,236,930
LAZOVSKI, SHIR	3,236,879	LI, HONGBIN	3,236,848	LIU, YI	3,236,446
LE BAIL, NATHALIE	3,237,142	LI, JICHAO	3,236,489	LIU, YI	3,236,757
LE GUILLARD, SANDRA	3,236,953	LI, JIE	3,236,535	LIU, YU'E	3,236,552
LEAVITT, BLAIR	3,236,664	LI, JIE	3,236,888	LIU, ZHENJIE	3,236,535
LEBLANC, DOMINIC	3,236,850	LI, JIN	3,236,632	LIU, ZICHENG	3,236,848
LECLAIR, ALEXANDRE	3,236,563	LI, JUAN	3,236,535	LIVELY, RYAN P.	3,236,700
LEE, BRIAN	3,237,103	LI, JUN	3,236,626	LIVEPERSON, INC.	3,236,816
LEE, BYEONG-KYU	3,237,122	LI, JUNLI	3,232,714	LIVERAMP, INC.	3,236,962
LEE, BYOUNG-GU	3,237,105	LI, KAILONG	3,236,619	LO, ALBERT	3,236,504
LEE, BYOUNGGU	3,237,132	LI, QIANG	3,236,660	LO, ALBERT	3,236,547

Index of PCT Applications Entering the National Phase

LO, ALBERT	3,236,555	MARTIN, BARRY ANDREW	3,236,416	MCHALE, DANIEL	3,236,657
LO, ALBERT	3,236,560	MARTIN, SHANNON	3,236,402	MCKEEN, DAVID BRIAN	3,236,998
LODI, GIORGIO FEDERICO	3,236,467	MARTINEZ CUTILLAS, ALFREDO	3,236,799	MCKINNEY, MADELINE	3,236,925
LOEBNITZ, LISA	3,236,513	MARTINEZ DE ILARDUYA, ANTXON	3,236,799	MCMAHON, CHRISTOPHER PATRICK	3,236,854
LOESCH, DANIEL G.	3,236,905	MARTINS, ANNALISE	3,236,762	MCMASTER UNIVERSITY	3,236,833
LOESCH, DANIEL G.	3,236,908	MARTZ, KEVIN ROBERT	3,236,405	MCMASTER, BENJAMIN JOHN	3,236,773
LOFGREN, SHANE	3,236,602	MARX, NICOLAS	3,236,729	MCWHIRTER, JAMES LIAM	3,236,765
LORNER, JOHANNES	3,237,081	MASI, GUIDO	3,236,503	MCWHIRTER, JAMES LIAM	3,236,773
LOTTIS, MATTHEW	3,236,454	MASI, GUIDO	3,236,986	MCWHIRTER, STEPHEN	
LOUGHNANE, BRIAN JOSEPH	3,236,455	MASONITE CORPORATION	3,237,025	RUSSELL	3,236,932
LOUGHNANE, BRIAN JOSEPH	3,236,457	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	3,236,534	MEAZZINI, GIULIA	3,236,389
LOUISIANA-PACIFIC CORPORATION	3,236,452	MAST, LUKE A.	3,236,961	MEAZZINI, GIULIA	3,236,986
LOW, PATRICK	3,236,645	MASTERCARD INTERNATIONAL INCORPORATED	3,236,486	MECAER AVIATION GROUP S.P.A.	3,236,411
LS MTRON LTD.	3,236,913	MATA, GUILLAUME	3,236,553	MECANA AG	3,237,137
LU, MIN	3,236,861	MATHEW, REUBLE	3,236,613	MECKER, WILLIAM ALEXANDER	3,236,832
LU, TING	3,236,743	MATINA, DARIO	3,236,986	MECKER, WILLIAM ALEXANDER	3,236,840
LU, ZHAOHUA	3,236,517	MATSUDA, DAIKI	3,236,675	MEDA PHARMA S.P.A.	3,236,390
LUCERO, STEVE	3,236,781	MATTANA, ALEX	3,236,866	MEDLINE INDUSTRIES, LP	3,236,694
LUEHR, GARY W.	3,236,708	MATTHEWS INTERNATIONAL CORPORATION	3,236,964	MEERSCHMAN, HANNES	3,236,847
LUNG BIOTECHNOLOGY PBC	3,236,453	MATTHEWS INTERNATIONAL CORPORATION	3,237,143	MEHMOOD, ROASA	3,236,731
LUO, GUANGMEI	3,236,558	MATTHEWS, GILES	3,236,837	MEHRABAN, SHADI	3,236,546
LUO, LINFU	3,236,632	MATUS, ISMAEL	3,236,398	MEHRMOHAMADI, MAHYA	3,236,814
LUO, XIANSUO	3,236,660	MATUSCHEK, MANFRED	3,237,141	MEHTA, SANDIP PARESHBHAI	3,236,722
LUO, ZHICHAO	3,236,738	MAUGHAN, RORY	3,236,926	MELES FREIRE DE OLIVEIRA, CARLOS MIGUEL	3,236,642
LUTZ, WAYNE	3,236,988	MAY, ANDREW CHARLES	3,236,720	MELISONO AB	3,237,051
LYNCH, MEGAN	3,236,880	MAYBORN (UK) LIMITED	3,236,763	MELIUS, BRENDA	3,237,022
MA, JI	3,236,407	MAYBORN (UK) LIMITED	3,236,764	MELLING, GERARD	3,236,948
MA, TENG	3,237,020	MAYBORN (UK) LIMITED	3,236,766	MELNICK, DAVID	3,236,710
MA, WENJIANG	3,236,552	MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH	3,236,697	MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES	3,236,511
MA, YUANHUI	3,236,956	MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH	3,236,709	MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES	3,237,136
MACALLISTER, THOMAS	3,236,462	MAZZA, ARNON	3,236,971	MEMORIAL SLOAN KETTERING CANCER CENTER	3,236,511
MACCOSS, MALCOLM	3,236,906	MBRACE THERAPEUTICS, INC.	3,236,952	MEMORIAL SLOAN KETTERING CANCER CENTER	3,237,136
MACCOSS, MALCOLM	3,236,912	MC CAFFERTY, SEAN	3,236,638	MERCK PATENT GMBH	3,236,433
MACCOSS, MALCOLM	3,236,916	MC CAFFERTY, SEAN	3,236,653	MERCK PATENT GMBH	3,237,030
MACCOSS, MALCOLM	3,236,920	MC MACHINERY SYSTEMS, INC.	3,237,022	MERCK SHARP & DOHME LLC	3,236,550
MACE, CHARLES R.	3,236,712	MCALISTER, STEVEN ALEXANDER	3,236,702	MERRELL, AARON JAKE	3,236,855
MACLACHLAN, BRIAN	3,236,409	MCALISTER, EDWARD RUSSELL	3,236,666	MERRICK, GARETH PAUL	3,236,452
MAHAJAN, AKANKSHA SANJAY	3,237,034	MCBROOM, JAMES P.	3,236,405	MERRIT-LISH, CHRISTOPHER	3,236,691
MAHLOCH, ALEXIS BROOKE	3,236,949	MCCAMBRIDGE, MATTHEW	3,236,965	MERTES, ADRIEN	3,236,902
MAHONEY, DOUGLAS W.	3,236,697	MCCARTHY, MATTHEW CARROLL	3,236,412	MESS, BRIGITTE	3,236,665
MAILYAN, ARTUR KARENOVICH	3,236,553	MCCCLUSKIE, KERRYAN	3,236,731	MESTER, SIMONE	3,236,937
MAJORPACK INCORPORATED	3,236,537	MCDONALD, RONALD JOHN	3,236,858	METHOT, JOEY L.	3,236,550
MALLAPRAGADA, SRIVATSA	3,236,448	MCFADYEN, IAIN JAMES	3,236,744	METSO FINLAND OY	3,237,044
MALTAIS-LAROCHE, EMILE	3,236,563	MCFADYEN, IAIN JAMES	3,236,790	MEYER, EMMANUEL	3,236,396
MANDEL, ILANA	3,237,102	MCGEE, MEREDITH J.	3,236,716	MEYER, SETH	3,236,926
MANIFOLD BIOTECHNOLOGIES, INC.	3,236,602	MCGINNIS, GLENN	3,236,866	MEYER-KIRSCHNER, JULIAN	3,236,513
MANNWEILER, KLAUS	3,236,761			MHADBI, NABIL	3,236,392
MANSFIELD, WILLIAM SHAWN	3,236,506			MIAMI UNIVERSITY	3,236,925
MANURANGSI, PASIN	3,236,957			MIAMI UNIVERSITY	3,237,063
MAPES, MARK	3,236,842				
MARASCO, WAYNE A.	3,237,090				
MARCHAND, PHILIPPE	3,236,720				
MARGOLIS, DAVID	3,236,407				
MARIN RODRIGUEZ, XAVIER	3,236,799				
MARKBO, OLIVIA	3,237,066				
MARKBO, OLIVIA	3,237,076				
MARKS, JARED SCOTT	3,236,506				
MARSIGLIO, DANIEL	3,236,414				

Index des demandes PCT entrant en phase nationale

MICHAU, MATHIEU	3,236,985	MORAN, STEVEN L.	3,236,709	NEXII BUILDING SOLUTIONS	
MICKOLIO, KAMERON	3,236,926	MORBIOLI, GIORGIO GIANINI	3,236,712	INC.	3,237,023
MICKOLIO, KOLE	3,236,926	MORGAN, MICHAEL E.	3,236,624	NEXTRACKER LLC	3,236,508
MICROPORT ORTHOPEDICS		MORIN, GREGORY JOSEPH	3,236,530	NGO, CHI LANG	3,236,962
INC.	3,236,509	MORIN, JACOB MARK	3,236,508	NGUYEN, TRAM NGOC	3,236,707
MICROWAVE SOLUTIONS		MORISAKA, SHINICHI	3,236,533	NI, JING	3,237,106
GMBH	3,236,705	MORITAMA, YOSUKE	3,236,539	NICHOLSON, JIMMY	3,236,994
MIHALI, RAUL	3,236,557	MORPHOTONICS HOLDING		NICKOLAUS, PETER	3,236,757
MILAM, CHAD	3,236,932	B.V.	3,237,104	NICOLAZZI, CELINE	3,237,142
MILHAU, PIERRE	3,236,996	MORSE, CAITLIN D.C.	3,237,129	NICOVENTURES HOLDINGS	
MILLER, PATRICK	3,236,734	MORSE, STEPHEN A.	3,237,129	LIMITED	3,236,395
MILLER, RON	3,236,577	MOSCONI, MANUEL	3,236,390	NICOVENTURES HOLDINGS	
MILLER, THOMAS	3,236,586	MOSES, DENNIS	3,237,109	LIMITED	3,236,397
MILLER, WALTER TIMOTHY	3,236,723	MOTALA, MICHAEL		NICOVENTURES TRADING	
MILLIKEN & COMPANY	3,236,658	JONATHAN	3,236,836	LIMITED	3,236,400
MILLIKEN & COMPANY	3,236,842	MOUNGONDO, FABIAN	3,237,101	NIE, SHUANG	3,236,738
MILLS, LOUIS	3,236,837	MOUSSA, YOUSSEF	3,236,836	NIEMELA, RITVA	3,236,955
MIN, BOKYUNG	3,237,016	MOZES, ALON	3,237,109	NIEMI, JARKKO	3,236,845
MIN, JUNG-JOON	3,236,831	MUELLER, CHRISTIAN	3,236,513	NIPPON STEEL	
MINTUN, MARK	3,236,504	MUKHOPADHYAY,		CORPORATION	3,236,461
MINTUN, MARK	3,236,547	ABHISHEK	3,236,765	NIPPON STEEL	
MINTUN, MARK	3,236,555	MUKHOPADHYAY,		CORPORATION	3,236,668
MINTUN, MARK	3,236,560	ABHISHEK	3,236,773	NISBETT, TREVORNE	3,236,935
MIPS AB	3,236,898	MUKTHAVARAM, RAJESH	3,236,675	NISHIDA, YOSHIKATSU	3,236,461
MIRALOGX LLC	3,236,951	MULLER, HUBERT	3,236,665	NISHIMURA, HIROSHI	3,236,541
MIRDAMADI, SEYED EHSAN	3,236,496	MUN, SUNG HOON	3,236,976	NISHIMURA, KAORU	3,236,687
MIRKIN, CHAD A.	3,237,034	MUSTAKANGAS, MIRVA		NISSHIN FLOUR MILLING	
MISMAR, WAEL	3,236,413	JOHANNA	3,237,044	INC.	3,236,786
MITCHELL, DOUGLAS A.	3,236,849	MUTEAU, REGIS	3,236,680	NITRASE THERAPEUTICS,	
MITSUBISHI HEAVY		MUTTI, JASDEEP S.	3,236,605	INC.	3,236,572
INDUSTRIES, LTD.	3,236,450	NA, GUN YOUNG	3,236,913	NIU, YAJIE	3,236,416
MITSUBISHI KAKOKI		NAE, NIR	3,237,108	NIVOROZHKIN, ALEX	3,236,624
KAISHA, LTD.	3,237,111	NAGAI, TAKAO	3,236,786	NOK CORPORATION	3,236,628
MITSUBISHI TANABE		NAGAOKA, MINAMI	3,236,538	NOKIA TECHNOLOGIES OY	3,236,456
PHARMA CORPORATION	3,236,538	NAGLER, CATHRYN R.	3,236,808	NOLTE, STEVE	3,236,650
MITTENDORFF, ROBERT	3,237,109	NAIK, ARMAGHAN	3,237,134	NOLTE, STEVE	3,236,655
MIYOSHI, TAKEFUMI	3,236,533	NAILOMATIC LTD.	3,236,577	NOORJAHAN, ABOLFAZL	3,236,295
MIZUKOSHI, YOSHITERU	3,236,541	NAITO, TAKAYUKI	3,236,392	NORLAND, LEIF	3,236,409
MKRTICHYAN, MIKAYEL	3,236,906	NAKAMORI, DAIKI	3,236,404	NORTH CAROLINA STATE	
MKRTICHYAN, MIKAYEL	3,236,912	NAKAMURA, TATSUYA	3,236,388	UNIVERSITY	3,236,482
MKRTICHYAN, MIKAYEL	3,236,916	NAKAMURA, YO	3,236,539	NORTHWESTERN	
MKRTICHYAN, MIKAYEL	3,236,920	NAKANE, SATOSHI	3,236,388	UNIVERSITY	3,237,034
MOEREMANS, BOAZ	3,236,729	NAKAO, AKIRA	3,236,538	NORWEGIAN UNIVERSITY OF	
MOHAN, CRAIG JOHN	3,236,932	NANJING SHIJIANG		SCIENCE AND	
MOHEBAN, RAZ	3,236,974	MEDICINE TECHNOLOGY		TECHNOLOGY	3,236,839
MOHR, PAUL	3,236,500	CO., LTD	3,236,552	NOVA CHEMICALS	
MOIR, MICHAEL BRUCE	3,236,976	NANO COMPOSITE		CORPORATION	3,236,295
MOLINA-VILA, MIGUEL		PRODUCTS	3,236,855	NOVEL MICRODEVICES, INC.	3,236,935
ANGEL	3,236,522	NANO, GIUSEPPE	3,236,854	NOVEL MICRODEVICES, INC.	3,236,941
MOLLISON-BALL, LOIS	3,236,395	NANOTECH ENERGY, INC.	3,236,862	NOVOPOWER	
MOLLISON-BALL, LOIS	3,236,397	NATREON, INC.	3,237,127	INTERNATIONAL INC.	3,236,910
MOLLISON-BALL, LOIS	3,236,400	NAUDIN, JORIS	3,236,910	NOVOZYMES A/S	3,236,587
MOLNAR, ESZTER	3,236,828	NAVARRO, FRANCISCO	3,236,678	NOWAK, MATEUSZ	3,236,895
MOLONEY, JEREMY	3,236,415	NAZY, ISHAC	3,236,833	NUDEL, KATHLEEN	3,236,602
MONIER, FABRICE	3,236,715	NDIAYE, MBALO	3,236,674	NUNAN, GERARD W.	3,236,409
MONIZ, RAYMOND J.	3,236,566	NEASE, MARK	3,236,724	NUOVO PIGNONE	
MONTAMBAULT, SERGE	3,236,470	NEGORO, MAKOTO	3,236,533	TECNOLOGIE - S.R.L.	3,236,389
MOODY, CHRISTOPHER	3,236,482	NEITELER, ROBERT JAN	3,236,704	NUOVO PIGNONE	
MOON, HEE JUNG	3,237,119	NEOCIS INC.	3,237,109	TECNOLOGIE - S.R.L.	3,236,503
MOON, SUNG YANG	3,236,499	NETSWEEPER (BARBADOS)		NUOVO PIGNONE	
MOONIER, CHRISTOPHER	3,236,596	INC.	3,236,796	TECNOLOGIE - S.R.L.	3,236,986
MOORE, BRANDON M.	3,236,787	NEURODAWN		NUTRAMAX LABORATORIES,	
MOR YOSEF, AVICHAY	3,236,577	PHARMACEUTICAL CO.,		INC.	3,237,113
MORAN, OMRI	3,236,577	LTD.	3,236,969	NXSTAGE MEDICAL, INC.	3,236,734

Index of PCT Applications Entering the National Phase

NYE, ERIN MORGAN	3,236,949	PANT, SHANKAR RAJ	3,236,416	PIRES FORTES FERREIRA, MARCIA	3,236,295
NYMAN, ULF	3,237,066	PAOLELLA, ANDREA	3,236,850	PIROTTE, ALAN	3,236,902
NYMAN, ULF	3,237,076	PAOLINI, JOHN F.	3,237,146	PITSCH, STEFAN	3,236,856
O'CONNELL, DANIEL NEIL	3,236,505	PAPELTEC OVERSEAS, INC.	3,236,630	PITTS, SHANNON	3,236,905
O'CONNELL, JOHN	3,236,865	PARADISE, BROOKE	3,236,709	PODUNAVAC, MA?A	3,236,553
O'LEARY, JAMES	3,237,041	PARADISE, CHRISTOPHER	3,236,709	POLONEN, JUHA	3,236,845
O'NEILL, DENNIS	3,236,605	PARK, GI MYEONG	3,236,913	POLYTEX SPORTBELAEGE PRODUKTIONS-GMBH	3,236,699
OBA, TRAVIS ZENYO	3,236,720	PARK, JAE SEOP	3,236,913	POMERING, AMY	3,236,898
OBUNGU, VICTOR H.	3,236,504	PARK, JEONG-HOON	3,237,012	PON, DAVID	3,236,548
OBUNGU, VICTOR H.	3,236,547	PARK, JONG-SIK	3,237,105	PONCE AIX, SANTIAGO	3,237,009
OBUNGU, VICTOR H.	3,236,555	PARK, JUNGSOO	3,237,034	POSCO CO., LTD	3,236,520
OBUNGU, VICTOR H.	3,236,560	PARK, SU HAN	3,236,929	POTIER, JULIE	3,236,775
OCKWIG, NATHAN	3,236,863	PARKINSON, BLAKE JOHN	3,236,763	POWERS, JAY PATRICK	3,236,553
OGATA, SHINGO	3,236,538	PARKINSON, BLAKE JOHN	3,236,764	PPG INDUSTRIES OHIO, INC.	3,236,836
OGDEN, PIERCE	3,236,602	PARKINSON, BLAKE JOHN	3,236,764	PRABHAKAR, JOSEPH	3,236,701
OH, SEJIN	3,236,799	PARMLEY, STEPHEN	3,237,004	PRADO, LUCAS ALFREDO	3,236,893
OHTAKE, NAOTAKA	3,236,687	PARRINGTON, MARK	3,236,924	PRAVEEN, KAVITA	3,237,033
OKA, MASAHARU	3,236,668	PASCHKE, MATTHIAS	3,236,432	PREFORMED LINE PRODUCTS CO.	3,236,958
OLCUM, SELIM	3,236,931	PASCUAL, M. ALEJANDRA	3,236,605	PREFORMED LINE PRODUCTS CO.	3,236,963
OLINSKI, LAUREN	3,236,564	PASQUALINI, RENATA	3,236,952	PRESCOTT, BROCK CARRINGTON	3,236,506
OLURINDE, MOBOLAJI	3,236,779	PASSALACQUA, CRISTOBAL	3,236,677	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	3,236,534
OMNITRACS, LLC	3,236,544	PATEL, MAHESH V.	3,236,546	PRICE, SHANNON	3,236,862
OMNITRACS, LLC	3,236,549	PATHARE, PRADIP M.	3,236,624	PROUTSKI, VITALY YURIEVICH	3,236,823
OMS INVESTMENTS, INC.	3,237,008	PAUFIQUE, JEAN	3,236,819	PUGACHEV, KONSTANTIN	3,237,134
ONO EXPONENTIAL FARMING S.R.L.	3,236,621	PAUL WURTH S.A.	3,236,467	PUHLMANN, MARKUS	3,236,735
ONODA, JUNJI	3,236,404	PAUL, ALEXANDER	3,237,123	PUN, YUSHEK	3,236,694
OOMORI, KAZUKI	3,237,111	PAULEY, KEVIN HUGHES	3,236,523	PURE STORAGE, INC.	3,236,542
OPAD AIRWAY INC.	3,236,711	PAWAR, SANDIP VASANT	3,236,707	PUROHIT, PARVA YOGESHCHANDRA	3,236,722
ORBACH, EYAL	3,236,971	PAZ-ARES RODRIGUEZ, LUIS GONZAGA	3,237,009	QI, ZHEN	3,236,554
ORBITAL RESEARCH LTD.	3,236,663	PEARCE, CHRISTOPHER A.	3,236,817	QIAN, JIN	3,236,545
OSAKA UNIVERSITY	3,236,533	PEI, YIHUA	3,236,675	QIAN, OU	3,236,540
OSEN, KARL	3,237,131	PELLEGRINI, TIZIANO	3,236,389	QIAN, OU	3,236,561
OSLO UNIVERSITETSSYKEHUS HF	3,236,937	PENGLER, DENGSAI	3,236,742	QIAN, OU	3,236,562
OSTERKAMP, FRANK	3,236,432	PENG, QIAN	3,236,892	QIAN, PAUL	3,236,514
OSTERMUELLER, ERIK	3,236,701	PENG, SHAOZHONG	3,236,446	QIAO, JINLIANG	3,237,007
OTI LUMIONICS INC.	3,236,686	PENNELLS, SIMON ERIC	3,236,870	QIU, LIN	3,236,742
OTSUKA PHARMACEUTICAL FACTORY, INC.	3,236,567	PERCZEL, ANDRAS	3,236,828	QUADRA GROUP S.R.L.	3,237,048
OTT, JENNA	3,236,682	PEREZ-GARCIA, CARLOS G.	3,236,675	QUAINTON, SIMON	3,236,762
OWENS-BROCKWAY GLASS CONTAINER INC.	3,236,500	PERGOLIZZI, JOSEPH	3,236,586	QUAN, WENYING	3,236,700
PACHTER, JONATHAN A.	3,236,424	PERI SE	3,236,427	QUANTA ASSOCIATES, L.P.	3,236,505
PADALA, SAI CHAKRADHAR	3,236,414	PERIOTECH, LLC	3,236,725	QUE, CHUZHEN	3,236,997
PADMAKUMAR, VIKASHNI	3,236,413	PERKINS, DANIEL A.	3,236,883	QUEL, INC.	3,236,533
PADULA, PIERPAOLO	3,236,423	PERKINS, DANIEL A.	3,236,905	RABBAH, JEAN-PIERRE MICHEL	3,236,720
PAETZOLD, BERNHARD	3,237,118	PERKINS, DANIEL A.	3,236,908	RABBITT, WILLIAM EUGENE	3,236,999
PAHL, JENS	3,237,016	PERNODET, NADINE	3,236,819	RABINER, MICHAEL	3,237,108
PAHL, JENS	3,237,018	PERNODET, NADINE	3,237,001	RAEESI, KAVEH	3,236,496
PAIS, ANDREA	3,236,935	PEROZENI, FEDERICO	3,236,610	RAHA, PAROMITA	3,236,666
PAIS, ANDREA	3,236,941	PETERS, AARON W.	3,236,700	RAHIMI, MEHRNAZ	3,236,295
PAIS, ROHAN	3,236,935	PETERSSON, CARL	3,236,433	RAINES, SARAH ELISABETH	3,236,504
PAIS, ROHAN	3,236,941	PFINGSTEN, MARK	3,236,454	RAINES, SARAH ELISABETH	3,236,547
PAJON, JEAN-LOUIS	3,236,846	PHAM, BICH HOANG	3,236,879	RAINES, SARAH ELISABETH	3,236,555
PAL, RAHUL	3,236,899	PHAN, LOC	3,236,703	RAINES, SARAH ELISABETH	3,236,560
PALFREYMAN, MICHAEL	3,236,624	PHARMA MAR, S.A.U.	3,237,009	RAJESH, SUYASH	3,236,973
PALMER, JACOB JEFFREY	3,236,963	PHILIPPOT, CLEMENT	3,236,953	RAKUSCH, CHRISTIAN	3,236,896
PANCOTTI, ANTHONY	3,237,115	PHYXD INC.	3,236,691	RAMAKRISHNAN, RAMKI	3,236,564
PANDELIDIS, DEMIS LUKASZ	3,236,812	PIECH, GREGOR ANTON	3,235,170		
PANDICA LTD	3,236,823	PIERCE, JONI HANSEN	3,236,723		
PANDYA, HETA NISHIL	3,236,722	PIETARINEN, SUVI	3,236,727		
PANKOVICH, JAMES	3,236,666	PIHL, CHRISTOPHER JAMES	3,237,115		
		PILARSKI, OLIVER	3,236,513		
		PILON-THOMAS, SHARI	3,236,919		
		PILOT, EVAN	3,236,611		
		PIONEER HI-BRED INTERNATIONAL, INC.	3,236,605		

Index des demandes PCT entrant en phase nationale

RAMMER, MEGAN A.	3,236,741	RODRIGUEZ, PETER	3,236,630	SANDVIK MINING AND	
RAMOUSSE, ARNAUD	3,236,634	RODRIGUEZ, RAMER	3,236,706	CONSTRUCTION OY	3,236,661
RAMSTEDT, HANS URBAN	3,237,090	RODRIGUEZ, VICTOR	3,236,630	SANDVIK MINING AND	
RANDELOVIC, IVAN	3,236,828	ROGATO, MARC ANGELO	3,236,410	CONSTRUCTION OY	3,236,845
RANPAK CORP.	3,236,714	ROLLIER, BRYAN	3,236,847	SANGAMO THERAPEUTICS,	
RAPHALS, PHILIP	3,236,910	ROLLS-ROYCE SOLUTIONS		INC.	3,236,677
RASO, STEPHEN W.	3,236,821	GMBH	3,237,032	SANGLE, GANESH	
RATKOWSKI, HUBERT	3,237,113	ROMERO, F. ANTHONY	3,236,708	VISHWANATH	3,236,722
RAVEN INDUSTRIES, INC.	3,236,692	ROMERO, JASON	3,236,408	SANO, MEI	3,236,541
RAVIKUMAR,		RONDEAU, VERONIQUE	3,236,672	SANOFI	3,236,924
SHANMUGASUNDARAM	3,236,957	ROSATA, PIETRO	3,236,411	SANOFI	3,237,139
RAY, UPASANA	3,236,403	ROSEN, BRANDON REID	3,236,553	SANOFI	3,237,142
RAYMON, HEATHER KAREN	3,237,016	ROSS, THORSTEN	3,237,018	SANOFI PASTEUR INC.	3,237,134
RED DEVIL INC.	3,237,078	ROSSANO, MARIO	3,236,411	SANPITAK, PATANIT	3,236,859
REDD, KELLY	3,236,556	ROSSOUW, MATHYS		SAPIR, YAIR	3,237,102
REDFIELD, ALEXANDER		JOHANNES	3,236,705	SARAIYA, VISHAAL SAMIR	3,236,543
VINCENT	3,236,694	ROTHENHEBER, DEREK		SARNO, MARIA	3,236,757
REESINK, BERNARD	3,236,513	THOMAS	3,236,416	SASAKI, TOSHIHIRO	3,236,687
REEVES, COREY	3,236,708	ROVIRA GONZALEZ, YAZMIN		SASANO, YUSHI	3,236,598
REGENERON		INES	3,236,391	SATHE, MAYUR	3,236,530
PHARMACEUTICALS,		ROY, VINCENT	3,236,732	SATOMAA, TERO	3,236,955
INC.	3,237,033	ROY, VINCENT	3,236,739	SATPAYEV, DAULET	3,236,408
REGMI, SHOBHA	3,236,885	ROYAN, AJAY GOPAL	3,237,109	SAUDI ARABIAN OIL	
REGO DE VASCONCELOS,		ROZAS BELMONTE, MIQUEL	3,237,118	COMPANY	3,236,865
BRUNA	3,237,126	RUAN, WEI	3,237,147	SAVAR, ALBERT AVI	3,236,506
REIFENHAUSER GMBH & CO.		RUETTEN, HARTMUT	3,236,890	SAVVA, YIANNIS	3,236,391
KG MASCHINENFABRIK	3,237,017	RULE, JEFFREY	3,236,988	SAWALL, DUSTYN	3,236,843
REINEKE, ULRICH	3,236,432	RUSCH, BRIAN J.	3,237,023	SAWASDIKOSOL, SANSANA	3,237,015
REISBERG, BRYAN	3,237,103	RUSSELL, MATTHEW F.	3,236,656	SB INGENIERIE	3,236,631
RELAY THERAPEUTICS, INC.	3,236,861	RUTGERS, THE STATE		SCADDING, CAMERON	3,236,465
REMEGEN CO., LTD.	3,236,667	UNIVERSITY	3,236,952	SCADDING, CAMERON	3,236,483
REN, JINSHENG	3,236,969	RYU, DUK HYUN	3,237,128	SCAFOM HOLDING B.V.	3,236,990
REN, YUEMING	3,237,007	RYU, DUK HYUN	3,237,132	SCHAEFER, ROBERT	3,236,732
RENEWABLE IRON FUEL		RYU, DUK-HYUN	3,237,014	SCHAFFERT, LENA	3,236,774
TECHNOLOGY B.V.	3,237,049	RYU, DUK-HYUN	3,237,105	SCHARF, THILO	3,236,425
RENKEMA-KRYSINA,		RYU, JE HO	3,237,119	SCHATTDECOR SP. Z O.O.	3,236,895
VIKTORIA ANDREEVNA	3,236,960	RYU, YOSHIHISA	3,236,628	SCHILLING, MICHAEL	3,236,587
RENSSELAER POLYTECHNIC		S-BIOMEDIC NV	3,237,118	SCHLESIGER, SARAH	3,236,433
INSTITUTE	3,236,567	S. FRANZEN SOHNE GMBH	3,237,141	SCHLUMBERGER CANADA	
RENZ, MARCUS	3,236,649	SAARINEN, JUHANI	3,236,955	LIMITED	3,236,412
RESMED PTY LTD	3,236,976	SABETI, PARDIS	3,236,534	SCHLUMBERGER CANADA	
REZVANI ABKENARI, MEHDI	3,236,663	SADEGHI, SOHEIL	3,236,295	LIMITED	3,236,869
RHODEN, JOHN	3,237,041	SAFAVI-NAEINI, REYHANEH	3,236,618	SCHMID, STEFAN	3,237,081
RHODIA OPERATIONS	3,236,687	SAGI, AMIT	3,236,675	SCHMIDTLEIN, ROSS	3,236,511
RICARD, DIDIER	3,236,634	SAHOO, APARNA	3,236,779	SCHMIDTLEIN, ROSS	3,237,136
RICO DUQUE, JENNY		SAHU, ITISHRI	3,236,638	SCHMITT, PETER	3,236,965
LORENA	3,236,550	SAHU, ITISHRI	3,236,653	SCHMITT, WOLFGANG	3,236,966
RIEDEL, PETER	3,237,081	SAINT-GOBAIN GLASS		SCHNEIDER ELECTRIC	
RILEY, JOHN	3,237,023	FRANCE	3,236,672	INDUSTRIES SAS	3,237,029
RION INC.	3,236,709	SAINT-GOBAIN GLASS		SCHNEIDER, EBERHARD	3,236,432
RISI, MIRCO	3,236,698	FRANCE	3,236,841	SCHNEIDER, WOLFGANG	3,236,768
RIZZO, EMANUELE	3,236,503	SAITO, MAMORU	3,236,668	SCHOLZ, SPENCER O.	3,236,853
ROACH, PERRY J.	3,236,796	SAKAKI, MASAHITO	3,236,668	SCHRAMM, MICHAEL R.	3,236,546
ROBB, ALEXANDER JOHN	3,236,796	SAKATA SEED		SCHREIBER, MICHAEL	3,236,513
ROBILLARD, PIERRE-LUC	3,236,563	CORPORATION	3,236,539	SCHREIBER, TAYLOR	3,236,815
ROBLES HERNANDEZ,		SALIOGEN THERAPEUTICS,		SCHREIBER, TAYLOR	3,236,824
FRANCISCO CARLOS	3,236,669	INC.	3,236,678	SCHUETZLE, DENNIS	3,236,706
ROBROY INDUSTRIES -		SALIOGEN THERAPEUTICS,		SCHUETZLE, DENNIS	3,236,866
TEXAS, LLC	3,236,640	INC.	3,236,684	SCHUETZLE, DENNIS	3,236,914
ROCKWOOL A/S	3,236,629	SALK INSTITUTE FOR		SCHUETZLE, ROBERT	3,236,706
RODER, JORG	3,236,665	BIOLOGICAL STUDIES	3,236,802	SCHUETZLE, ROBERT	3,236,866
RODRIGUES, MIESHER	3,236,859	SALTER, RHYS	3,236,851	SCHUETZLE, ROBERT	3,236,914
RODRIGUEZ, JASON	3,236,630	SANDELL, LAURENCE M.	3,236,711	SCHUIND, FREDERIC	3,237,101
RODRIGUEZ, MARC	3,236,671	SANDERS, WILLIAM	3,236,834	SCHULTZ, DAN	3,236,501

Index of PCT Applications Entering the National Phase

SCHULTZ, GARRETT	3,236,878	SHUKOOR, MOHAMMED I.	3,236,624	SINOPEC RESEARCH	
SCHUMANN, ANNE	3,236,432	SHULMAN, AVIDOR	3,237,102	INSTITUTE OF	
SCHWAER, SIMON	3,236,469	SHUM, CHRISTINA	3,236,903	PETROLEUM	
SCHWAER, SIMON	3,237,138	SHUPTRINE, CASEY	3,236,815	PROCESSING CO., LTD.	3,236,892
SCHWARTZ, CHRISTOPHER		SHUPTRINE, CASEY	3,236,824	SIVASANKARAN,	
A.	3,236,741	SICHUAN KELUN-BIOTECH		SATISHKUMAR	3,237,025
SCHWARTZ, EVAN T.	3,236,707	BIOPHARMACEUTICAL		SJOBLOM, JOHAN	3,236,839
SCHWEIKERT, ALFRED	3,236,586	CO., LTD.	3,236,632	SK3W TECHNOLOGIES INC.	3,236,932
SCIMAR LTD.	3,237,005	SICK, STEPHAN	3,236,699	SKELTON, SHELBY A.	3,237,045
SEAGEN INC.	3,236,735	SIEFARTH, CAROLINE	3,237,110	SKF AEROSPACE FRANCE	
SEIJGER, VINCENT JACOBUS		SIEGLER, JANA-JULIA	3,237,018	S.A.S.	3,236,753
THEODORUS	3,237,049	SIEMENS INDUSTRY, INC.	3,237,023	SKILLHEAD LLC	3,236,398
SELECT CHEMISTRY, LLC	3,236,878	SIEMENS MEDICAL		SKORA, ANDREW DIXON	3,236,504
SELL, DEVIN	3,236,716	SOLUTIONS USA, INC.	3,236,859	SKORA, ANDREW DIXON	3,236,547
SEMMELWEIS EGYETEM	3,236,828	SIGAKIS, MATTHEW	3,236,711	SKORA, ANDREW DIXON	3,236,555
SEMSAR, SEPEHR	3,236,738	SIGILON THERAPEUTICS,		SKORA, ANDREW DIXON	3,236,560
SENEKER, CARL	3,236,836	INC.	3,236,873	SLOAN KETTERING	
SEO, JULIE J.	3,236,700	SILIPHAIVANH, PHIENG	3,236,550	INSTITUTE FOR CANCER	
SEOL, EUNYOUNG	3,236,688	SILVERMAN, ADAM P.	3,236,731	RESEARCH	3,237,136
SEPRO MINERAL SYSTEMS		SIMCERE PHARMACEUTICAL		SLOAN-KETTERING	
CORP.	3,236,702	CO., LTD	3,236,969	INSTITUTE FOR CANCER	
SHA, XIUBIN	3,236,743	SIMEX ENGINEERING S.R.L.	3,236,698	RESEARCH	3,236,511
SHAFIGH, SAM	3,236,720	SIMMONS, MICHAEL L.	3,236,679	SMART COCOON INC.	3,236,496
SHAHROKH ESFAHANI,		SIMON, SEBASTIEN	3,236,839	SMART, COLIN JOHN	3,236,870
MOHAMMAD	3,236,814	SIMONPIETRI ENTERPRISES		SMARTSEAL AS	3,236,676
SHALABY, WALID	3,236,448	LLC	3,236,689	SMERLING, CHRISTIANE	3,236,432
SHAMSUTDINOVA, DIANA	3,236,872	SIMONPIETRI, MARIE-JOELLE	3,236,689	SMITH, LYDIA	3,236,822
SHANGHAI HANSOH		SIMPLISAFE, INC.	3,236,887	SMUS, MICHAL	3,236,895
BIOMEDICAL CO., LTD.	3,236,619	SIMS, JOHN RANDALL II	3,236,504	SMYLIO INC.	3,236,703
SHAO, ZHE	3,236,748	SIMS, JOHN RANDALL II	3,236,547	SOCCHI, CARLO ALBERTO	
SHAPE THERAPEUTICS INC.	3,236,391	SIMS, JOHN RANDALL II	3,236,555	MARIA	3,236,702
SHARGOTS, SCOTT J.	3,236,493	SIMS, JOHN RANDALL II	3,236,560	SOCIETE DES PRODUITS	
SHARGOTS, SCOTT J.	3,236,507	SINEGRA, ANDREW JOSEPH	3,237,034	NESTLE S.A.	3,236,570
SHARGOTS, SCOTT J.	3,236,510	SINGH, ADITYA SUSHIL		SOCIETE DES PRODUITS	
SHARIFI, MOHAMED SAMIN	3,237,003	KUMAR	3,236,416	NESTLE S.A.	3,236,740
SHARIFIAN, SETAREH	3,236,618	SINGH, SANJAYA	3,237,038	SOCIETE DES PRODUITS	
SHARMA, ABHISHEK	3,236,869	SINGH, SURENDRA P.	3,236,861	NESTLE S.A.	3,237,057
SHARPE, MICHKA		SINHA, SHAMBHU	3,236,701	SOCIETE INDUSTRIELLE	
GABRIELLE	3,236,416	SINOPEC DALIAN RESEARCH		LIMOUSINE	
SHATTUCK LABS, INC.	3,236,815	INSTITUTE OF		D'APPLICATION	
SHATTUCK LABS, INC.	3,236,824	PETROLEUM AND		BIOLOGIQUE	3,236,819
SHEARER, LORI JO L.	3,236,601	PETROCHEMICALS CO.,		SOCPPA SCIENCES ET GENIE	
SHELL INTERNATIONALE		LTD.	3,236,446	S.E.C.	3,236,438
RESEARCH		SINOPEC DALIAN RESEARCH		SOCPPA SCIENCES ET GENIE	
MAATSCHAPPIJ B.V.	3,236,704	INSTITUTE OF		S.E.C.	3,237,126
SHEN, CHENBO	3,236,498	PETROLEUM AND		SOK, THIEN	3,236,927
SHEN, CHENG	3,236,498	PETROCHEMICALS CO.,		SOMANCHI, SRINIVAS SAI	3,237,016
SHEN, JIANBO	3,236,632	LTD.	3,236,626	SOMMER, SEBASTIAN	3,237,017
SHEN, JINGKANG	3,236,956	SINOPEC DALIAN RESEARCH		SOMMERS, JEFFREY	3,236,528
SHERMAN, ELENA	3,236,879	INSTITUTE OF		SOMMETRICS, INC.	3,236,606
SHI, MEITING	3,236,821	PETROLEUM AND		SONG, HONGMEI	3,236,632
SHI, YUFENG	3,236,552	PETROCHEMICALS CO.,		SONG, WENBO	3,236,535
SHI, ZHENTANG	3,236,626	LTD.	3,236,627	SONG, YINGYING	3,236,683
SHIBATA, KAZUAKI	3,236,842	SINOPEC DALIAN RESEARCH		SONK, ALEXEY	
SHILOVITZKY, ORIT	3,237,102	INSTITUTE OF		NIKOLAEVICH	3,236,537
SHIMIZU, ATSUO	3,236,461	PETROLEUM AND		SONTHEIMER, ERIK	3,236,778
SHIN, JU HWAN	3,236,749	PETROCHEMICALS CO.,		SORBONNE UNIVERSITE	3,237,013
SHIOMI, HIDEHISA	3,236,533	LTD.	3,236,747	SORDI, DANIELA	3,236,750
SHIONOGI & CO., LTD.	3,236,404	SINOPEC DALIAN RESEARCH		SOSKINE, MIKHAEL	3,236,657
SHOJI, HIROMASA	3,236,461	INSTITUTE OF		SOUBERBIELLE, BERNARD	3,236,677
SHOZUI, TETSUYA	3,236,687	PETROLEUM AND		SOUTHWEST RESEARCH	
SHPAK, YAROSLAV	3,236,516	PETROCHEMICALS CO.,		INSTITUTE	3,236,726
SHRIVER, ZACHARY	3,236,564	LTD.	3,236,888	SOUTHWEST RESEARCH	
SHU, CHENGXIA	3,236,558			INSTITUTE	3,236,730

Index des demandes PCT entrant en phase nationale

SPAETH, ANJA	3,236,774	TABIBIAZAR, RAY	3,236,678	THE GOVERNING COUNCIL	
SPARROW ACOUSTICS INC.	3,236,516	TABIBIAZAR, RAY	3,236,684	OF THE UNIVERSITY OF	
SPECGX LLC	3,236,834	TACHIBANA, SHINYA	3,236,450	TORONTO	3,236,738
SPERO THERAPEUTICS, INC.	3,236,710	TACHIKAWA, KIYOSHI	3,236,675	THE PROCTER & GAMBLE	
SPINDLER, HERBERT	3,236,649	TAI, ZHENGFU	3,236,632	COMPANY	3,236,455
SPIRE CUT SA	3,237,101	TAKAHASHI, TATSUYA	3,236,404	THE PROCTER & GAMBLE	
SPIRK, EVAN	3,236,999	TAKEUCHI, MINORU	3,224,100	COMPANY	3,236,457
SPORKA, RADOVAN	3,236,768	TAL, ELISHA	3,236,974	THE PROVOST, FELLOWS,	
SPR THERAPEUTICS, INC.	3,236,716	TALAPATRA, DIDHITI	3,236,940	FOUNDATION	
SPRAGUE, DANIEL		TALLEY, ANGELA	3,236,710	SCHOLARS, AND THE	
ALEXANDER	3,236,416	TAM, PATRICIA	3,236,874	OTHER MEMBERS OF	
SPRENGER, GEORG	3,236,772	TAN, JIE	3,236,743	BOARD, OF THE	
SRIDHAR, SARANYA	3,237,134	TANAKA, YUSUKE	3,224,100	COLLEGE OF THE HOLY	
SRIDHAR, SARANYA	3,237,139	TANI, KOICHI	3,237,111	AND UNDIVIDED	
SRIVASTAVA, AMIT KUMAR	3,236,403	TAO, LINAN	3,236,626	TRINITY OF QUEEN	
ST-ONGE, MIGUEL	3,236,877	TATUM, JOHN TYLER	3,236,973	ELIZABETH, NEAR	
ST. GERMAIN, BRIAN	3,236,452	TAYLOR, DAVID M.	3,236,720	DUBLIN	3,236,966
STACHOW, ROBERT PAUL,		TAYLOR, MATTHEW	3,236,556	THE UNITED STATES AS	
JR.	3,236,849	TAYLOR, SHELTON RAY	3,236,669	REPRESENTED BY THE	
STAQUICINI, FERNANDA I.	3,236,952	TAYLOR, WILLIAM R.	3,236,697	DEPARTMENT OF	
STARBUCKS CORPORATION	3,236,473	TECHNO OLYMPUS CO. LTD.	3,224,100	VETERANS AFFAIRS	3,236,860
STARK, SHELBY	3,236,843	TEIXEIRA, LUIS	3,236,994	THE UNIVERSITY OF BRITISH	
STATHERA IP HOLDINGS INC.	3,236,613	TEKNOLOGISK INSTITUT	3,236,900	COLUMBIA	3,236,664
STATTER, HARRY A.	3,236,679	TEN DAM, JEROEN	3,236,750	THE UNIVERSITY OF	
STEGH, ALEXANDER H.	3,237,034	TENBORON OY	3,236,955	CALIFORNIA	3,236,802
STELZER, JAMES	3,236,961	TENG, HAN-FANG	3,236,718	THE UNIVERSITY OF	
STENGER, PATRICK		TENNANT COMPANY	3,236,454	CHICAGO	3,236,808
CHRISTOPHER	3,236,455	TEPLENSKY, MICHELLE		THE UNIVERSITY OF	
STENGER, PATRICK		HOPE	3,237,034	MANCHESTER	3,236,641
CHRISTOPHER	3,236,457	TER MEULEN, JAN MATTHIJS	3,237,104	THIELE, TOBIAS	3,236,587
STEPHENS, PAUL DANA	3,236,999	TERMESZETTUDOMANYI		THILLA, TIM	3,237,110
STEVENS, MARK	3,236,931	KUTATOKOZPONT	3,236,828	THOMAS, AMBROSI	3,236,621
STEVIC, LUKA	3,236,864	TERNS PHARMACEUTICALS,		THOMAS, HUGH FRANCIS	
STILSON, THOMAS	3,236,978	INC.	3,236,708	STEWART	3,236,976
STINARD, BRIAN J.	3,236,714	TESSENDERLO GROUP NV	3,236,680	THOMAS, MICHAEL	3,236,395
STRAPEC, LAUREN	3,236,961	TETRA LAVAL HOLDINGS &		THOMAS, MICHAEL	3,236,397
STRAUB, DARREN E.	3,236,874	FINANCE S.A.	3,237,066	THOMAS, MICHAEL	3,236,400
STRICKLIN, TABITHA	3,236,640	TETRA LAVAL HOLDINGS &		THOMASON, WILLIAM A.	3,237,039
STROTHER, ROBERT B.	3,236,716	FINANCE S.A.	3,237,076	THOMPSON, ROBIN	3,237,074
STRYKER CORPORATION	3,236,409	TEXTRON SYSTEMS		THOPPEY, NAGARAJAN	3,236,633
STUBBINGS, PHILIP	3,236,962	CORPORATION	3,236,502	THORNTON, DOUGLAS A.	3,236,905
STUGLIK, BRIAN M.	3,236,424	THAKOR, AVNESH S.	3,236,885	THORNTON, DOUGLAS A.	3,236,908
STUHAUG, RAGNAR	3,236,756	THALES	3,237,080	THULIN, ANDERS	3,237,023
SU, JING	3,236,550	THALMAN, TYLER	3,236,556	TIAINEN, HELGE	3,236,393
SU, YIDONG	3,236,619	THE AFFILIATED HOSPITAL		TIAN, QIANG	3,236,632
SUGIHARA, YUICHI	3,236,539	OF SOUTHWEST		TIANQI LITHIUM GENESIS	
SULLIVAN, RICHARD		MEDICAL UNIVERSITY	3,236,742	TECHNOLOGY	
THOMAS	3,236,391	THE BOARD OF TRUSTEES OF		(SHENZHEN) LTD.	3,236,807
SUMIYOSHI, TETSUYA	3,236,392	THE LELAND STANFORD		TIMAR, JOZSEF	3,236,828
SUN, JIN	3,236,627	JUNIOR UNIVERSITY	3,236,802	TITIN KM BIOMEDICAL	
SUN, YUN	3,237,020	THE BOARD OF TRUSTEES OF		CORP.	3,236,926
SUN, ZHENFENG	3,236,888	THE LELAND STANFORD		TITULAER, BRAM JOHANNES	3,237,104
SUNDET, JAKE DUANE	3,236,855	JUNIOR UNIVERSITY	3,236,814	TOBI, DROR	3,237,114
SUNE, ELODIE	3,236,657	THE BOARD OF TRUSTEES OF		TOBIESON, GUSTAF	3,237,017
SURI, ANISH	3,236,566	THE LELAND STANFORD		TOEFX INC.	3,236,696
SUZUKI, KEISUKE	3,236,388	JUNIOR UNIVERSITY	3,236,885	TOMASI, ISABELLA	3,236,680
SUZY, INC.	3,236,506	THE BOARD OF TRUSTEES OF		TONEFF, STEVEN M.	3,236,714
SVENSSON, THOMAS	3,236,393	THE UNIVERSITY OF		TONGJI UNIVERSITY	3,236,552
SYKES, NICHOLAS	3,236,556	ILLINOIS	3,236,860	TOP CAP HOLDING GMBH	3,235,170
SYKORA, ALEXANDER	3,236,645	THE BROAD INSTITUTE, INC.	3,236,534	TOPOLO TECHNOLOGY INC.	3,237,068
SZALAY, ANTAL	3,236,809	THE COMPOUNDING		TOTALENERGIES ONETECH	3,236,985
SZEJWIAN, JERZY	3,236,895	COMPANY B.V.	3,237,021	TOUCHETTE, CHARLES	3,236,438
TABEBORDBAR,		THE GENERAL HOSPITAL		TOUMAR, ALEXANDRA	3,236,672
MOHAMMADSHARIF	3,236,534	CORPORATION	3,236,899	TOVARI, JOZSEF	3,236,828

Index of PCT Applications Entering the National Phase

TRAILHEAD BIOSYSTEMS INC.	3,236,867	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	3,236,778	VESTIN, ANDERS	3,237,056
TRAVERA, INC.	3,236,931	UNIWERSYTET JAGIELLONSKI	3,236,670	VETTER, ANDREAS	3,237,081
TREE, MAXWELL	3,236,855	UNLU, CEMAL	3,236,967	VEYRIER, FREDERIC	3,237,085
TRENCHV, GEORGI	3,236,636	UNZUE LOPEZ, ANDREA	3,236,433	VIDOVICH, MLADEN	3,236,860
TREVINO, SERGIO	3,236,726	UPL CORPORATION LIMITED	3,236,902	VILLAR, GABRIEL	3,236,559
TRI-TUBE DRILLING SYSTEMS PTY LTD	3,237,073	UPL EUROPE LTD	3,236,902	VINSON, PHILLIP KYLE	3,236,457
TRIPATHI, PREM PRAKASH	3,236,403	UPM-KYMMENE CORPORATION	3,236,727	VIPPERLA, RAVIKUMAR	3,237,019
TRIVERO, JACQUELINE MARY	3,236,819	URBSTONAITIS, ROLANDAS	3,236,880	VIRSEC SYSTEMS, INC.	3,236,693
TRIVERO, JACQUELINE MARY	3,237,001	URTESTE S.A.	3,236,947	VIRSEC SYSTEMS, INC.	3,236,695
TRUE MANUFACTURING CO., INC.	3,236,596	USUI, MASAYOSHI	3,237,111	VISSCHER, RICHARD	3,236,410
TRUSCOTT, MICHAEL KENNETH	3,236,976	UTI LIMITED PARTNERSHIP	3,236,618	VISTERRA, INC.	3,236,564
TRUSTEES OF TUFTS COLLEGE	3,236,712	UTILITY GLOBAL, INC.	3,236,978	VISWANATH, ANAND	3,236,682
TSENG, CHI-LING	3,236,718	UTILITY GLOBAL, INC.	3,236,980	VISWANATHAN, KARTHIK	3,236,564
TSUDA, YASUYUKI	3,236,786	UZAN GUETA, ROZI RAVIT	3,237,102	VITYUK, ARTEM D	3,236,513
TSYBIN, ALEKSANDR IGOREVICH	3,236,537	V-WAVE LTD.	3,237,108	VIVES, THOMAS	3,236,839
TUBAU, SEGOLENE	3,237,080	VACHON, ALEXANDRE	3,236,563	VLAAR, TJOSTIL	3,236,960
TULSYAN, GAURAV	3,236,862	VADAKAPURAM, JEEVAN	3,236,508	VO, HUNG THE	3,236,523
TURIONI, CHIARA	3,237,110	VAESEN, SEBASTIEN	3,236,966	VOELZKE, STEVEN A.	3,236,640
TURNER, RAQUEL	3,237,000	VALEMBOIS, SOPHIE	3,236,638	VOGEL, THORSTEN	3,237,134
TURTINEN, SAMULI HEIKKI	3,236,456	VALEMBOIS, SOPHIE	3,236,653	VOGEL, THORSTEN	3,237,139
TWELVE BENEFIT CORPORATION	3,236,864	VALIEV, IVAN	3,236,872	VOGELAAR, BASTIAAN MAARTEN	3,236,960
TWIST BIOSCIENCE CORPORATION	3,236,856	VALLERAND, ISABELLE A.	3,236,825	VOGELANG GMBH & CO. KG	3,236,651
TYKHO, JOSHUA C.	3,236,802	VALLIEU, KRISTEN JEAN	3,236,731	VOLKSWAGEN AKTIENGESELLSCHAFT	3,236,464
UBIX THERAPEUTICS, INC.	3,237,119	VAN BUUREN, TONY W.	3,236,554	VOLVO TRUCK CORPORATION	3,237,010
UDALE, ROBINSON	3,236,559	VAN DYK, MARIA MAGDALENA	3,236,605	VONDRAN, JODI	3,237,074
UEDA, TSUYOSHI	3,236,388	VAN MOORSEL, SAM GERARD	3,236,704	VOSS, FLORIAN	3,236,757
UENO, SHIN	3,236,461	VAN PARIDON, HENK	3,237,017	VOTROUBEK, GEORGE	3,237,115
UHL, MAGDALENA	3,236,587	VAN RAALTEN, RUTGER ALEXANDER DAVID	3,236,750	WADAS, ZACHARY	3,236,689
ULLMANN, DETLEF	3,236,761	VAN SCHIE, COEN	3,236,704	WAGNER, DENNIS J.	3,236,714
ULLRICH, THOMAS	3,236,609	VAN-HAM, IRIT ITZHAKI	3,236,696	WAGNER, PAMELA	3,236,664
ULTIMATE MEDICINE AG	3,236,809	VANDERWOUDE, BRIAN JAMES	3,236,409	WAGNER, SEBASTIAN	3,236,645
UMATE, PIYUSH	3,236,869	VARA, BRANDON A.	3,236,550	WAGNER, STEFFEN	3,236,419
UMICORE	3,236,729	VARGAS, ANGELO	3,236,603	WAGNER, STEFFEN	3,236,420
UNADKAT, VISHAL BHARATBHAI	3,236,722	VARGHESE, SONY	3,236,567	WAGNER, STEFFEN	3,236,421
UNGEWISS, JAN	3,236,432	VARGO, JAKE A.	3,236,964	WALESKA, HIDALGO	3,236,768
UNILIN, BV	3,236,847	VASHER, MATTHEW KUO	3,237,034	WALKER, KIMBERLEY JOHN BUIST	3,236,858
UNITED STATES GYPSUM COMPANY	3,236,477	VASQUEZ, MAXIMILIANO	3,236,868	WALL OF WATER INC.	3,236,998
UNIVERSAL CITY STUDIOS LLC	3,236,903	VAXXINOVA US, INC.	3,236,874	WALLACH, ADI	3,236,974
UNIVERSITA' DEGLI STUDI DI VERONA	3,236,610	VEERMAN, WILHELMUS CLEMENS JOZEF	3,236,960	WALSH, ROBIN ELIZABETH	3,236,504
UNIVERSITE DE RENNES	3,236,839	VEGA, JEREL BOYD LEE	3,236,675	WALSH, ROBIN ELIZABETH	3,236,547
UNIVERSITE PARIS CITE	3,237,013	VEILLET, STANISLAS	3,237,013	WALSH, ROBIN ELIZABETH	3,236,555
UNIVERSITEIT ANTWERPEN	3,236,636	VEKARIYA, SAGAR LAXMANBHAI	3,236,722	WALSH, ROBIN ELIZABETH	3,236,560
UNIVERSITETET I OSLO	3,236,937	VELAZQUEZ, MATTHEW T.	3,236,502	WALTER, FREDERIK	3,236,774
UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED	3,236,422	VENTILAQUA, S.A.	3,236,642	WALTNER, DREW JOHN	3,236,692
UNIVERSITY OF HOUSTON SYSTEM	3,236,669	VENTUS THERAPEUTICS U.S., INC.	3,236,877	WANG, CHEN	3,236,888
		VERASTEM, INC.	3,236,424	WANG, FANGZHAO	3,236,446
		VERDINE, GREG	3,236,744	WANG, FENGLAI	3,236,747
		VERDINE, GREG	3,236,790	WANG, GEORGE	3,237,027
		VERHASSELT, ANDREW R.	3,236,454	WANG, HONG	3,236,567
		VERHEYEN, WILLY	3,237,118	WANG, HOUPENG	3,236,892
		VERHO, SAMULI	3,236,661	WANG, HUIGANG	3,236,446
		VERTICE OIL TOOLS INC.	3,236,402	WANG, JI	3,236,646
		VESCHAMBRE, ETIENNE	3,236,976	WANG, JIABING	3,237,020
				WANG, JIFENG	3,236,446
				WANG, JIIN-TARNG	3,236,718
				WANG, JINGBO	3,237,017
				WANG, JINZE	3,236,992
				WANG, JUAN	3,236,754
				WANG, JUAN	3,236,852
				WANG, JUAN	3,236,930

Index des demandes PCT entrant en phase nationale

WANG, LEI	3,236,969	WIGINGTON, DAKOTA	3,236,477	XU, LIANHONG	3,236,407
WANG, LI	3,236,742	WIJOYOSENO, MAXIMILIAN		XU, PENGFEI	3,236,635
WANG, MIN	3,236,781	AJI	3,236,976	XU, TINGTING	3,236,742
WANG, MU	3,236,457	WILEY, KRISTEN	3,236,851	XU, YIHUI	3,237,007
WANG, PING	3,236,446	WILLE, ROLAND	3,236,871	XU, YONGJIN	3,236,830
WANG, PINGPING	3,237,020	WILLIAMS, DENNY	3,236,650	XU, YUSEHENG	3,236,511
WANG, PO-HAO	3,236,605	WILLIAMS, DENNY	3,236,655	XU, YUSEHENG	3,237,136
WANG, QI	3,236,686	WILLIAMS, JONNIE R.	3,236,951	XUE, WEN	3,236,778
WANG, QIXIN	3,236,742	WILLIS, PHILIP	3,236,650	YAKOBY, MICHAEL	3,236,974
WANG, RONG	3,236,545	WILLIS, PHILIP	3,236,655	YAKOV, YANIV	3,237,006
WANG, RUIPING	3,236,821	WILLOW LABORATORIES,		YAKUBOUSKI, STANISLAU	3,236,714
WANG, RUYI	3,236,808	INC.	3,236,523	YALAMANCHILI, VIJAY K.	3,236,392
WANG, WENXIANG	3,236,667	WILSON, D. SCOTT	3,236,808	YAMADA, MINORI	3,236,786
WANG, XIAOHONG	3,236,861	WINFIELD SOLUTIONS, LLC	3,236,843	YAMADA, TAKAHIRO	3,236,538
WANG, XINGJIE	3,236,622	WINTER, FRANZ	3,236,427	YAN, LI	3,236,407
WANG, YINGWEI	3,236,742	WITTER, DAVID	3,237,015	YANG, CHAO	3,236,888
WANG, YU	3,237,020	WOLFSON, ALEXEY	3,236,838	YANG, CHENGMIN	3,236,627
WANG, YUAN	3,236,524	WOLTERS, KAY	3,237,143	YANG, DONG HO	3,236,913
WANG, YUJING	3,236,857	WON, JIN HYEOK	3,237,128	YANG, JIAN	3,236,742
WANG, YUXIN	3,236,517	WON, JIN HYEOK	3,237,132	YANG, KEXIN	3,236,558
WANG, ZHIBIN	3,236,686	WONG, JONATHAN	3,236,408	YANG, PIAOPIAO	3,236,540
WARD, STUART	3,236,497	WONG, SHIH WEI	3,236,691	YANG, PIAOPIAO	3,236,561
WARREN, WILLIAM	3,237,134	WONGSARNPIGOON, AMORN	3,236,716	YANG, PIAOPIAO	3,236,562
WARREN, WILLIAM	3,237,139	WOOD, JAMES	3,236,726	YANG, QINGBAO	3,236,635
WASHBURN, JAMES	3,237,023	WOODS, KENNETH J.	3,237,022	YANG, QINGLIANG	3,236,754
WATERS, LAURA JAYNE	3,236,909	WOOLSEY		YANG, QINGLIANG	3,236,852
WATRIN, CLIFF	3,236,843	PHARMACEUTICALS,		YANG, QINGLIANG	3,236,930
WEAVER, COLIN	3,237,035	INC.	3,236,462	YANG, QIUMEI	3,236,646
WEBBER, MARTIN	3,237,107	WOOSLEY, AARON T.	3,236,605	YANG, RONGWEN	3,237,020
WEBER-STEPHEN PRODUCTS		WOOSTER, TIMOTHY JAMES	3,236,570	YANG, SHIBAO	3,236,969
LLC	3,236,832	WOOSTER, TIMOTHY JAMES	3,236,740	YANG, XIAOJIAO	3,236,632
WEBER-STEPHEN PRODUCTS		WOOSTER, TIMOTHY JAMES	3,237,057	YANG, YONGFEI	3,236,748
LLC	3,236,840	WORDEN, SARAH E.	3,236,605	YANG, ZEKUN	3,236,388
WEI, QIANG	3,236,406	WORLEY, MARK	3,236,834	YANG, ZHANLIN	3,236,446
WELLINGHOFF, STEPHEN T.	3,236,730	WORSLEY, MARCUS A.	3,236,554	YANTAI LANNACHENG	
WELLS, GEOFFREY	3,236,796	WRAY, LINDSAY	3,236,811	BIOTECHNOLOGY CO.,	
WELLS, MATTHEW ROBIN	3,236,976	WU, CHANGQING	3,236,552	LTD.	3,236,635
WELSH, RAPHAEL J.	3,236,883	WU, CHUNLI	3,236,456	YAO, YUNHAI	3,236,627
WELSH, RAPHAEL J.	3,236,905	WU, HAO	3,236,517	YARA UK LIMITED	3,236,497
WELSH, RAPHAEL J.	3,236,908	WU, KEWEN	3,236,957	YAZDANIAN, SHOWKAT	
WEN, XUEJUN	3,236,635	WU, KOUGEN	3,236,848	MONIKA	3,236,696
WENZEL, KEVIN	3,236,600	WU, WEI	3,236,406	YE, DANWEI	3,236,999
WENZHOU JIANXI		WU, XIAOMING	3,236,635	YE, HANGBO	3,236,754
STATIONERY CO., LTD.	3,236,683	WU, XIAOXING	3,236,558	YE, HANGBO	3,236,852
WERNIMONT, SUSAN	3,237,074	WU, YUN-HAN	3,236,469	YE, HANGBO	3,236,930
WEST, ELIZABETH ANNE	3,236,504	WU, YUN-HAN	3,237,138	YE, MING	3,236,504
WEST, ELIZABETH ANNE	3,236,547	WUCHTE, LIANA D.	3,236,595	YE, MING	3,236,547
WEST, ELIZABETH ANNE	3,236,555	WYKA, STEPHEN ANDREW	3,236,744	YE, MING	3,236,555
WEST, ELIZABETH ANNE	3,236,560	WYKA, STEPHEN ANDREW	3,236,790	YE, MING	3,236,560
WESTCOTT, TIMOTHY		XIA, KE	3,236,567	YE, SIMON	3,236,534
DANIEL	3,237,073	XIA, LIDONG	3,237,007	YE, ZHENGZHENG	3,236,979
WESTERN MAPLE BIO		XIA, SHUAI	3,236,632	YE, ZHICANG	3,236,754
RESOURCES INC.	3,236,406	XIANG, SICHUAN	3,236,632	YE, ZHICANG	3,236,852
WESTERN POWER SPORTS,		XIAO, ZHEN	3,236,880	YEE, JACQUELINE	3,236,779
LLC	3,236,565	XIE, NANHONG	3,236,892	YEW, MING KHOON	3,236,837
WESTMAN, GORAN	3,237,056	XIE, YING	3,236,448	YI, XUEGANG	3,237,020
WESTON, SIMON C.	3,236,700	XIN, YANG	3,236,524	YIN, CHANGBO	3,236,861
WESTWOOD, MICHAEL	3,236,837	XING, NAIGUO	3,236,742	YIN, OPHELIA QIPING	3,236,880
WHALE, ERIC ARRON	3,236,900	XIONG, BING	3,236,956	YIN, XIAOYING	3,236,627
WHITE, CATHERINE E.	3,236,843	XIONG, ZHAOMING	3,236,853	YIN, ZHIGANG	3,236,807
WHITE, HENRY	3,237,022	XIONG, ZHAOMING	3,236,854	YOHANAN, ZIV	3,236,879
WHITE, MELANIE KATHRYN	3,236,837	XU, CHUAN	3,236,807	YONEKAWA, TAKAHITO	3,236,450
WHITING, JAMES S.	3,237,108	XU, CHUNBAO	3,236,406	YOO, SUN MI	3,237,119
WIBERG, ULF	3,237,056	XU, KAI	3,237,007	YOON, KA-HYUN	3,237,012

Index of PCT Applications Entering the National Phase

YOSHIDA, KAORI	3,236,450	ZHOU, XIA	3,236,406
YOSHIKAWA, MAI	3,236,404	ZHOU, XIAOHAN	3,236,619
YOU, SUNG-HWAN	3,236,831	ZHOU, YOU	3,236,852
YOUN, JUNG-WON	3,236,772	ZHOU, YOU	3,236,930
YU, BO	3,237,004	ZHOU, YUNFEI	3,236,861
YU, JIAN	3,237,147	ZHU, CHENG	3,236,554
YU, KAI	3,236,553	ZHU, MIAO	3,236,956
YU, WEI	3,236,798	ZHU, YIDONG M.	3,236,717
YU, WENSHENG	3,236,619	ZIEGLER, RYAN Z.	3,236,493
YU, YANLEI	3,236,567	ZIEGLER, RYAN Z.	3,236,507
YUAN, ZHONGSHUN	3,236,406	ZIEGLER, RYAN Z.	3,236,510
YUANBEN (ZHUHAI HENGQIN) BIOTECHNOLOGY CO., LTD.	3,236,943	ZIPHIUS NV	3,236,638
YUDANOV, SERGI	3,237,010	ZIPHIUS NV	3,236,653
YUDS, DAVID	3,237,035	ZOLLINGER, MICHAEL	3,236,409
YUN, WHEE SAHNG	3,237,119	ZORGANI, AMINE	3,237,118
ZAFARI, FARHAD	3,236,662	ZOTOVA, ANASTASIA	3,236,872
ZAHIROVIC, EMIR	3,236,410	ZOTUP S.R.L.	3,237,096
ZAKIELARZ, SEAN	3,236,935	ZTE CORPORATION	3,232,714
ZAKIELARZ, SEAN	3,236,941	ZTE CORPORATION	3,236,517
ZANARDI, ANDREA	3,236,390	ZTE CORPORATION	3,236,743
ZASLAVSKY, BORIS Y.	3,236,536	ZTE CORPORATION	3,236,979
ZATSEPIN, TIMOFEI	3,236,838	ZYMEWORKS BC INC.	3,236,765
ZBORALSKI, DIRK	3,236,432	ZYMEWORKS BC INC.	3,236,773
ZEUN, ALINE	3,236,891		
ZHANG, FENGQIAN	3,237,007		
ZHANG, FUMING	3,236,567		
ZHANG, HAN	3,236,778		
ZHANG, HONGYANG	3,236,626		
ZHANG, JIAKANG	3,236,892		
ZHANG, JIAN	3,237,020		
ZHANG, JING	3,236,622		
ZHANG, JING	3,236,748		
ZHANG, JUBO	3,237,036		
ZHANG, LINGLI	3,236,754		
ZHANG, LINGLI	3,236,852		
ZHANG, LINGLI	3,236,930		
ZHANG, LINONG	3,236,924		
ZHANG, LINZHU	3,236,601		
ZHANG, NAN	3,232,714		
ZHANG, SHIJUN	3,237,007		
ZHANG, WEI	3,236,632		
ZHANG, WENCHAO	3,236,836		
ZHANG, XIAOMENG	3,236,535		
ZHANG, YARU	3,236,535		
ZHANG, YIYUN	3,236,781		
ZHANG, YIYUN	3,236,787		
ZHANG, ZHENGPING	3,236,969		
ZHAO, KAIQIANG	3,236,888		
ZHAO, LINYAO	3,236,754		
ZHAO, ROBERT	3,236,754		
ZHAO, ROBERT	3,236,930		
ZHAO, ROBERT YONGXIN	3,236,852		
ZHAO, YACHAO	3,237,007		
ZHEJIANG XUNSHI TECHNOLOGY CO., LTD.	3,236,622		
ZHENG, BUMEI	3,236,627		
ZHENG, YUNXIA	3,236,852		
ZHOU, FU	3,236,807		
ZHOU, HAOSHENG	3,236,629		
ZHOU, JIAJIA	3,236,861		
ZHOU, QIUXIANG	3,236,861		

Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

ADAMS, CHANGQING WANG	3,236,759	F. HOFFMANN-LA ROCHE AG	3,236,518	MANGUM, JACOB S.	3,236,759
AEOVIAN		FANG, WEIFENG	3,236,759	MAO, CHEN	3,236,518
PHARMACEUTICALS,		FELD, TANHUM	3,236,820	MASSEY, IAN J.	3,236,782
INC.	3,236,782	FILTER GROUP INC.	3,236,584	MATSUFUJI, TAKAHIRO	3,236,521
ALLEGIANCE CORPORATION	3,236,599	FITZGIBBON, JAMES J.	3,236,659	MATSUFUJI, TAKAHIRO	3,236,527
AROOM, KEVIN	3,236,202	FLOORING INDUSTRIES		MATZA, STEPHEN D.	3,236,614
AUSPEX		LIMITED, SARL	3,236,437	MCCALLUM, IAN	3,236,759
PHARMACEUTICALS,		FROIDBISE, ALEXANDRE	3,236,782	MCCORD, CAMERON	3,236,922
INC.	3,236,214	GAUDELLI, NICOLE	3,236,512	MCGINNIS, CHRISTOPHER	
AYLEN, GRAHAM IAN	3,236,604	GILL, BRIJESH S.	3,236,202	MICHAEL	3,236,526
BASF AGRICULTURAL		GRANDVIEW EA BUILDING		MESSER, KEVIN	3,236,968
SOLUTIONS SEED US LLC	3,236,911	SYSTEMS CORP.	3,236,458	MICKEY, CLINT	3,236,316
BEAM THERAPEUTICS INC.	3,236,512	GRAY, LARRY B.	3,236,573	MIMOTO, FUTA	3,236,171
BEER, N. REGINALD	3,236,625	HARAYA, KENTA	3,236,171	MINA THERAPEUTICS	
BENEVENTI, CLAUDIO	3,236,437	HOLT, TREVOR LEIGH	3,236,736	LIMITED	3,236,835
BHARGAVA, SAMARTH	3,236,968	HOOVER, MATHEW J.	3,236,745	MORE, PRAVIN NAMADEO	3,236,474
BHAT, PRASHANT	3,236,531	HUANG, MICHAEL		NADA, JUN	3,236,759
BLUMBERG, DAVID	3,236,488	FANGCHING	3,236,214	NAVICO HOLDING AS	3,236,745
BLUMBERG, DAVID JR.	3,236,573	IGAWA, TOMOYUKI	3,236,171	NEUFELDT, ADAM CHASE	3,236,736
BOARD OF REGENTS OF THE		IJIMA, YUKI	3,236,521	NGUYEN, LUAN THANH	3,236,604
UNIVERSITY OF TEXAS		IJIMA, YUKI	3,236,527	NITZAN, YAACOV	3,236,820
SYSTEM	3,236,202	IWAYANAGI, YUKI	3,236,171	NIVENS, DAVID C.	3,236,488
BORN, DAVID A.	3,236,512	JAROLIM, ADAM	3,236,458	PACKER, MICHAEL	3,236,512
BRENNAN, JAMES M.	3,236,526	KADONO, SHOJIRO	3,236,171	PAGANELLI, MARIANO	3,236,437
CALYSTA, INC.	3,236,604	KAMEN, DEAN	3,236,531	PAGLIERONI, DAVID W.	3,236,625
CASTELLOTE, MIGUEL A.	3,236,584	KAMEN, DEAN	3,236,573	PASON SYSTEMS CORP.	3,236,736
CELGARD, LLC	3,236,759	KANE, DEREK G.	3,236,488	REPEAT PRECISION, LLC	3,236,316
CHAMBERS, DAVID	3,236,625	KATADA, HITOSHI	3,236,171	RIINO INC.	3,236,312
CHEMELEWSKI, KATHARINE	3,236,759	KENDRICK, KENNETH	3,236,316	ROBERTS, KIRA	3,236,911
CHEMOCENTRYX, INC.	3,236,249	KERWIN, JOHN M.	3,236,573	ROTH, HOWARD S.	3,236,249
CHEMOCENTRYX, INC.	3,236,253	KOU, DAWEN	3,236,518	ROTH, HOWARD S.	3,236,253
CHEMOCENTRYX, INC.	3,236,256	KURAMOCHI, TAICHI	3,236,171	ROTH, HOWARD S.	3,236,256
CHEMOCENTRYX, INC.	3,236,258	LAMBERT, AARON KEVIN	3,236,312	ROTH, HOWARD S.	3,236,258
CHEVRON U.S.A. INC.	3,236,922	LANGENFELD, CHRISTOPHER		RYDZAK, THOMAS	3,236,928
CHIANG, PO-CHANG	3,236,518	C.	3,236,531	SAERTROM, PAL	3,236,835
CHO, KWANTAI	3,236,759	LAROCQUE, RYAN K.	3,236,531	SAMPSON, KIMBERLEY S.	3,236,911
CHONG, CHUANG SIM	3,236,599	LAWRENCE LIVERMORE		SCHNELLINGER, ANDREW A.	3,236,531
CHOUGULE, NANA	3,236,911	NATIONAL SECURITY,		SCHWARTZ, JOEL	3,236,458
CHUGAI SEIYAKU		LLC	3,236,625	SENJU METAL INDUSTRY	
KABUSHIKI KAISHA	3,236,171	LEE, SEUNG-JOO	3,236,512	CO., LTD.	3,236,521
CLAPP, OTIS L.	3,236,531	LEHTINEN, DUANE ALAN	3,236,911	SENJU METAL INDUSTRY	
COX, CHARLES S.	3,236,202	LEWIS, IAN ANDREW	3,236,928	CO., LTD.	3,236,527
DANGSEYUN, NUJALEE	3,236,599	LINDSTROM, DANNY ELMER	3,236,526	SHI, LIE	3,236,759
DEL, KANTA	3,236,521	LIU, VICTOR KAI	3,236,968	SHIRSAT, RAJAN RAMAKANT	3,236,474
DEL, KANTA	3,236,527	LUI, REBECCA M.	3,236,249	SHROFF, JAIDEV RAJNIKANT	3,236,474
DEKA PRODUCTS LIMITED		LUI, REBECCA M.	3,236,253	SHROFF, VIKRAM	
PARTNERSHIP	3,236,488	LUI, REBECCA M.	3,236,256	RAJNIKANT	3,236,474
DEKA PRODUCTS LIMITED		LUI, REBECCA M.	3,236,258	SILVERMAN, JOSHUA A.	3,236,604
PARTNERSHIP	3,236,531	MA, JUNQING	3,236,759	SINGH, RAJINDER	3,236,249
DEKA PRODUCTS LIMITED		MACDONALD, DANIEL		SINGH, RAJINDER	3,236,253
PARTNERSHIP	3,236,573	NICHOLAS	3,236,584	SINGH, RAJINDER	3,236,256
DUNN, ETHAN	3,236,911	MAEDA, ATSUHIKO	3,236,171	SINGH, RAJINDER	3,236,258
ELEY, BRIAN JAMES	3,236,736	MAGIC LEAP, INC.	3,236,968	SLAYMAKER, IAN	3,236,512
ENT, STEPHEN M.	3,236,531	MAKWICH, GORDON	3,236,458	SMARTWASH SOLUTIONS,	
EPPE, GUILLAUME	3,236,782	MANDRO, MARC A.	3,236,573	LLC	3,236,526

**Index of Canadian Divisional and Previously Unavailable
Applications Open to Public Inspection**

SMITH, RONNIE E.	3,236,759
SMITH, STANLEY B., III	3,236,531
STAMLER, DAVID	3,236,214
SUGISAWA, KOTA	3,236,521
SUGISAWA, KOTA	3,236,527
TACHIBANA, TATSUHIKO	3,236,171
THE CHAMBERLAIN GROUP LLC	3,236,659
TILLEY, MICHAEL C.	3,236,488
TIMKEN, HYE-KYUNG	3,236,922
TZANNIS, STELIOS T.	3,236,782
UNITED LABORATORIES INTERNATIONAL, LLC	3,236,614
UPL LTD	3,236,474
VALERIANI, LORENZO	3,236,437
WANNAWONG, PANOR	3,236,599
WENSLEY, GLEN C.	3,236,759
WENZEL, PAMELA	3,236,202
WHITE SWELL MEDICAL LTD	3,236,820
WILHELMSSEN, ERIC CHILD	3,236,526
WILLIAMS, SHANTE P.	3,236,759
WILSON, THOMAS WILLIAM CHARLES	3,236,736
WOO, CHOON KONG	3,236,599
YACOBY, MENASHE	3,236,820
YANG, JU	3,236,249
YANG, JU	3,236,253
YANG, JU	3,236,256
YANG, JU	3,236,258
YAU, KWOK	3,236,249
YAU, KWOK	3,236,253
YAU, KWOK	3,236,256
YAU, KWOK	3,236,258
YOSHIKAWA, SHUNSAKU	3,236,521
YOSHIKAWA, SHUNSAKU	3,236,527
YU, YI	3,236,512
ZENG, YIBIN	3,236,249
ZENG, YIBIN	3,236,253
ZENG, YIBIN	3,236,256
ZENG, YIBIN	3,236,258
ZETSCHKE, BERND	3,236,512
ZHANG, PENGLIE	3,236,249
ZHANG, PENGLIE	3,236,253
ZHANG, PENGLIE	3,236,256
ZHANG, PENGLIE	3,236,258
ZHANG, ZHENGMING	3,236,759