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Canada



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	27
Canadian Applications Open to Public Inspection	
Demandes canadiennes mises à la disponibilité du public.....	35
PCT Applications Entering the National Phase	
Demandes PCT entrant en phase nationale	49
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	176
Index of Canadian Patents Issued	
Index des brevets canadiens délivrés	182
Index of Canadian Applications Open to Public Inspection	
Index des demandes canadiennes mises à la disponibilité du public	184
Index of PCT Applications Entering the National Phase	
Index des demandes PCT entrant en phase nationale	187
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	211

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 MailTM and XpresspostTM 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 MailTM and XpresspostTM 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 December 20, 2022 contains applications open to public inspection from December 4, 2022 to December 10, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 20 décembre 2022 contient les demandes disponibles au public pour consultation pour la période du 4 décembre 2022 au 10 décembre 2022.

Notices

16. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No.** 2525556
Issued: 2012-07-31
Present Owner: GAMING PARTNERS INTERNATIONAL

Title: **READ AND/OR WRITE STATION FOR ELECTRONIC GAMING CHIPS**

Subject to the terms of this document, GAMING PARTNERS INTERNATIONAL, as the owner of Canadian Patent No. 2,525,556, entitled " READ AND/OR WRITE STATION FOR ELECTRONIC GAMING CHIPS" (inventor Gelinotte, Emmanuel) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,525,556 for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. 2,525,556 is made without any prejudice to the rights of GAMING PARTNERS INTERNATIONAL in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,525,556 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,525,556.

The patentee, GAMING PARTNERS INTERNATIONAL, also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Las Vegas, Nevada, United States of America
this 9th day of September 2022

[signature]

Name: Naoya Takine
Title: President

16. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no:** 2525556
Delivré : 2012-07-31
Titulaire actuel : GAMING PARTNERS INTERNATIONAL

Titre : **POSTE DE LECTURE ET/OU D'ECRITURE POUR JETONS DE JEU ELECTRONIQUES**

Par la présente et sous réserve des dispositions du présent document, GAMING PARTNERS INTERNATIONAL, à titre de propriétaire du brevet canadien no 2,525,556, intitulé «POSTE DE LECTURE ET/OU D'ECRITURE POUR JETONS DE JEU ELECTRONIQUES» (inventeur Gelinotte, Emmanuel) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,525,556 pour toute la durée du brevet.

La présente cession du brevet canadien no 2,525,556 se fait sans préjudice des droits GAMING PARTNERS INTERNATIONAL sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,525,556 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,525,556.

Le breveté, GAMING PARTNERS INTERNATIONAL demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Las Vegas, Nevada, aux États-Unis d'Amérique ce 9^e
jour du mois de septembre 2022

[signature]

Nom : Naoya Takine
Titre : Présidente

17. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No.** 2553949
Issued: Enter date in format 2016-02-16
Present Owner: GAMING PARTNERS INTERNATIONAL

Title: **TOKEN FOR INSERTION WITH ELECTRONIC CHIP**

Subject to the terms of this document, GAMING PARTNERS INTERNATIONAL, as the owner of Canadian Patent No. 2,553,949, entitled "TOKEN FOR INSERTION WITH ELECTRONIC CHIP" (inventor Chapet, Pierre; Charlier Gerard) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,553,949 for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. 2,553,949 is made without any prejudice to the rights of GAMING PARTNERS INTERNATIONAL in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,553,949 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,553,949.

The patentee, GAMING PARTNERS INTERNATIONAL, also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Las Vegas, Nevada, United States of America
this 9th day of September 2022

[signature]

Name: Naoya Takine
Title: President

17. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no:** 2553949
Delivré : Enter date in format 2016-02-16
Titulaire actuel : GAMING PARTNERS INTERNATIONAL

Titre : **JETON A INSERT A PUCE ELECTRONIQUE**

Par la présente et sous réserve des dispositions du présent document, GAMING PARTNERS INTERNATIONAL, à titre de propriétaire du brevet canadien no 2,553,949, intitulé «JETON A INSERT A PUCE ELECTRONIQUE» (inventeur Chapet, Pierre; Charlier Gerard) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,553,949 pour toute la durée du brevet. La présente cession du brevet canadien no 2,553,949 se fait sans préjudice des droits GAMING PARTNERS INTERNATIONAL sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,553,949 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,553,949.

Le breveté, GAMING PARTNERS INTERNATIONAL demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Las Vegas, Nevada, aux États-Unis d'Amérique ce 9^e
jour du mois de septembre 2022

[signature]

Nom : Naoya Takine
Titre : Présidente

Canadian Patents Issued

December 20, 2022

Brevets canadiens délivrés

20 décembre 2022

[11] **2,884,367**
[13] C

[51] **Int.Cl. C12N 5/00 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL CELL CULTURING**

[54] **CULTURE DE CELLULES TRIDIMENSIONNELLES**

[72] LAUKKANEN, ANTTI, FI
[72] LOU, YAN-RU, FI
[72] YLIPERTTULA, MARJO, FI
[72] KUISMA, TYTTI, FI
[72] NIKLANDER, JOHANNA, FI
[72] PERE, JAAKKO, FI
[73] UPM-KYMMENE CORPORATION, FI
[85] 2015-03-06
[86] 2013-09-24 (PCT/FI2013/050928)
[87] (WO2014/049204)
[30] FI (20125997) 2012-09-25

[11] **2,898,995**
[13] C

[51] **Int.Cl. G06F 21/62 (2013.01) H04L 67/1097 (2022.01)**

[25] EN
[54] **DATA SECURITY SERVICE**
[54] **SERVICE DE SECURITE DES DONNEES**

[72] ROTH, GREGORY BRANCHEK, US
[72] WREN, MATTHEW JAMES, US
[72] BRANDWINE, ERIC JASON, US
[72] PRATT, BRIAN IRL, US
[73] AMAZON TECHNOLOGIES, INC., US
[85] 2015-07-22
[86] 2014-02-07 (PCT/US2014/015404)
[87] (WO2014/126813)
[30] US (13/764,963) 2013-02-12

[11] **2,899,088**
[13] C

[51] **Int.Cl. C07D 417/06 (2006.01) A61K 31/426 (2006.01) A61K 31/4545 (2006.01) A61K 31/496 (2006.01) A61P 21/00 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) C07D 277/46 (2006.01) C07D 413/06 (2006.01) C12Q 1/34 (2006.01)**

[25] EN
[54] **THIAZOLE AND OXAZOLE COMPOUNDS AS GLYCOSIDASE INHIBITORS**

[54] **COMPOSES DE THIAZOLE ET D'OXAZOLE EN TANT QU'INHIBITEURS DE GLYCOSIDASE**

[72] YU, HENRY, US
[72] LIU-BUJALSKI, LESLEY, US
[72] JOHNSON, THERESA L., US
[73] MERCK PATENT GMBH, DE
[85] 2015-07-22
[86] 2014-03-10 (PCT/US2014/022630)
[87] (WO2014/159234)
[30] US (61/782,353) 2013-03-14
[30] US (61/817,493) 2013-04-30

[11] **2,901,511**
[13] C

[51] **Int.Cl. E01B 3/46 (2006.01)**

[25] EN
[54] **RAILWAY SLEEPER COMPOSED OF FIBRE-REINFORCED EARTHENWARE**

[54] **TRAVERSE DE RAIL DE CHEMIN DE FER EN MATERIAU PIERREUX RENFORCE PAR DES FIBRES**

[72] KUSE, KOLJA, DE
[72] MULLER, MATTHIAS, DE
[72] BUCAK, OMER, DE
[73] KUSE, KOLJA, DE
[73] MULLER, MATTHIAS, DE
[73] BUCAK, OMER, DE
[85] 2015-08-17
[86] 2013-12-03 (PCT/EP2013/003647)
[87] (WO2014/086481)
[30] DE (20 2012 011 524.3) 2012-12-03

[11] **2,916,533**
[13] C

[51] **Int.Cl. A61K 31/713 (2006.01) A61K 31/135 (2006.01) A61K 31/137 (2006.01) A61K 31/165 (2006.01) A61K 31/166 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS FOR MODULATING CANCER STEM CELLS**

[54] **PROCEDES ET COMPOSITIONS DE MODULATION DES CELLULES SOUCHES CANCEREUSES**

[72] RAO, SUDHA, AU
[72] ZAFAR, ANJUM, AU
[73] EPIAXIS THERAPEUTICS PTY LTD, AU
[85] 2015-12-22
[86] 2014-06-17 (PCT/AU2014/050073)
[87] (WO2014/205511)
[30] AU (2013902309) 2013-06-25
[30] AU (2014900953) 2014-03-19

[11] **2,922,342**
[13] C

[51] **Int.Cl. G06F 21/32 (2013.01) G06Q 20/40 (2012.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTING HEAD MOTION DURING AN AUTHENTICATION TRANSACTION**

[54] **METHODES ET SYSTEMES DE DETECTION DE MOUVEMENT DE TETE PENDANT UNE TRANSACTION D'AUTHENTIFICATION**

[72] SEZILLE, NICOLAS JACQUES JEAN, IE
[73] DAON ENTERPRISES LIMITED, IM
[86] (2922342)
[87] (2922342)
[22] 2016-03-01
[30] US (14/674,258) 2015-03-31

**Brevets canadiens délivrés
20 décembre 2022**

[11] **2,937,506**
[13] C

[51] **Int.Cl. C07D 307/46 (2006.01)**
[25] EN
[54] **CONVERSION OF FRUCTOSE-CONTAINING FEEDSTOCKS TO HMF-CONTAINING PRODUCT**
[54] **CONVERSION DE MATIERES PREMIERES CONTENANT DU FRUCTOSE EN PRODUIT CONTENANT DE L'HMF**
[72] BOUSSIE, THOMAS R., US
[72] DIAS, ERIC L., US
[72] MURPHY, VINCENT J., US
[72] SHOEMAKER, JAMES A., US
[73] ARCHER-DANIELS-MIDLAND COMPANY, US
[85] 2016-07-20
[86] 2015-01-27 (PCT/US2015/013130)
[87] (WO2015/113060)
[30] US (61/932,185) 2014-01-27

[11] **2,947,338**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 1/04 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 5/20 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 17/00 (2006.01) A61P 17/10 (2006.01) A61P 21/04 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 37/00 (2006.01) A61P 37/02 (2006.01) C07C 43/29 (2006.01) C07C 45/29 (2006.01) C07C 49/813 (2006.01) C07C 303/38 (2006.01) C07C 311/08 (2006.01) C07D 213/81 (2006.01) C07D 215/22 (2006.01) C07D 215/233 (2006.01) C07D 239/34 (2006.01) C07D 519/00 (2006.01) C07F 5/04 (2006.01)**
[25] EN
[54] **MULTI-FLUORO-SUBSTITUTED COMPOUND AS BRUTON'S TYROSINE KINASE (BTK) INHIBITOR**
[54] **COMPOSES POLYFLUORES AGISSANT EN TANT QU'INHIBITEURS DE LA TYROSINE KINASE DE BRUTON**
[72] HE, WEI, CN
[73] ZHEJIANG DTRM BIOPHARMA CO., LTD., CN
[85] 2016-10-28
[86] 2015-04-27 (PCT/CN2015/000290)
[87] (WO2015/165279)
[30] CN (201410175783.7) 2014-04-29

[11] **2,947,655**
[13] C

[51] **Int.Cl. H04W 24/06 (2009.01) H04W 40/12 (2009.01) H04W 80/08 (2009.01)**
[25] EN
[54] **WIRELESS COMMUNICATION SYSTEM FOR MOVING VEHICLES**
[54] **SYSTEME DE COMMUNICATION SANS FIL POUR DES VEHICULES EN DEPLACEMENT**
[72] EIKMAN, VIKTOR, SE
[72] THUNBERG, ANDREAS, SE
[72] ULMESTRAND, ARON, SE
[73] ICOMERA AB, SE
[85] 2016-11-01
[86] 2015-05-07 (PCT/EP2015/060094)
[87] (WO2015/169917)
[30] EP (14167527.2) 2014-05-08

[11] **2,949,969**
[13] C

[51] **Int.Cl. A45D 19/02 (2006.01)**
[25] EN
[54] **HAIR COLORING VARIATION DEVICE AND METHOD OF USE**
[54] **DISPOSITIF DE COLORATION CAPILLAIRE DE COULEURS DIFFERENTES ET PROCEDE D'UTILISATION**
[72] ELLIOTT, FRANKLIN, US
[73] F.G. ELLIOTT LLC, US
[85] 2016-11-22
[86] 2015-05-26 (PCT/US2015/032383)
[87] (WO2015/179856)
[30] US (62/002,313) 2014-05-23
[30] US (62/112,735) 2015-02-06

[11] **2,951,505**
[13] C

[51] **Int.Cl. B65D 83/46 (2006.01) B65D 83/38 (2006.01)**
[25] EN
[54] **VALVE MOUNTING CUP FOR A PRESSURIZED CONTAINER**
[54] **COUPELLE DE MONTAGE DE VANNE POUR UN RECIPIENT SOUS PRESSION**
[72] MARTZ, KEVIN ROBERT, US
[72] MCBROOM, JAMES P., US
[73] CLAYTON CORPORATION, US
[85] 2016-12-07
[86] 2015-07-13 (PCT/IB2015/055294)
[87] (WO2016/009332)
[30] US (62/024,231) 2014-07-14
[30] US (62/158,300) 2015-05-07

[11] **2,953,585**
[13] C

[51] **Int.Cl. A61N 1/05 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **AN IMPLANTABLE STIMULATION DEVICE**
[54] **DISPOSITIF DE STIMULATION IMPLANTABLE**
[72] NEUVONEN, TUOMAS, FI
[72] VIRTANEN, JANI, FI
[72] NIKANDER, MIKA, FI
[73] SOOMA LTD, FI
[85] 2016-12-22
[86] 2015-06-30 (PCT/EP2015/064907)
[87] (WO2016/001261)
[30] US (62/019,173) 2014-06-30

[11] **2,964,015**
[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) A61F 2/00 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **INSTRUMENT NAVIGATION IN COMPUTER-ASSISTED HIP SURGERY**
[54] **NAVIGATION D'INSTRUMENTS EN CHIRURGIE DE LA HANCHE ASSISTEE PAR ORDINATEUR**
[72] FALARDEAU, BRUNO, CA
[72] VALIN, MYRIAM, CA
[72] PELLETIER, BENOIT, CA
[72] PARADIS, FRANCOIS, CA
[73] ORTHOSOFT ULC, CA
[85] 2017-04-07
[86] 2015-11-06 (PCT/CA2015/051153)
[87] (WO2016/070288)
[30] US (62/076,123) 2014-11-06

[11] **2,965,320**
[13] C

[51] **Int.Cl. A01K 15/02 (2006.01)**
[25] EN
[54] **LOCKING ROTATING CHEW BLOCAGE DE LA ROTATION D'ARTICLE A MACHER**
[72] AXELROD, GLEN S., US
[72] GAJRIA, AJAY, IN
[73] T.F.H. PUBLICATIONS, INC., US
[85] 2017-04-20
[86] 2015-10-20 (PCT/US2015/056305)
[87] (WO2016/064778)
[30] US (14/518,450) 2014-10-20

**Canadian Patents Issued
December 20, 2022**

[11] **2,968,369**
[13] C

[51] **Int.Cl. G06Q 10/02 (2012.01) H04W 4/21 (2018.01) H04W 4/30 (2018.01)**
[25] EN
[54] **COLLABORATIVE TICKETING SYSTEM**
[54] **SYSTEME DE BILLETTERIE COLLABORATIVE**
[72] PALEJA, AMEESH, US
[72] BAKAL, MATTHEW, US
[72] BURNS, MICHAEL, US
[72] CAPPS, KENLEY, US
[72] KIM, MITCHELL, US
[72] RADDATZ, ALAN, US
[72] ROUSE, ALEXANDER, US
[72] SHAEVITZ, GEOFF, US
[73] ATOM TICKETS, LLC, US
[85] 2017-05-18
[86] 2015-11-18 (PCT/US2015/061381)
[87] (WO2016/081626)
[30] US (62/082,498) 2014-11-20
[30] US (14/696,292) 2015-04-24
[30] US (14/696,288) 2015-04-24
[30] US (14/696,296) 2015-04-24
[30] US (14/696,310) 2015-04-24
[30] US (14/696,314) 2015-04-24

[11] **2,970,772**
[13] C

[51] **Int.Cl. A23L 2/58 (2006.01) A23L 5/40 (2016.01) A23L 5/41 (2016.01) C09B 61/00 (2006.01) C09B 67/44 (2006.01) C11D 3/00 (2006.01)**
[25] EN
[54] **NATURALLY DERIVED COLOUR STABILIZER COMPRISING PHLORETIN**
[54] **STABILISATEUR DE COULEUR DERIVE NATURELLEMENT COMPRENANT DE LA PHLORETINE**
[72] CANO HERNANDEZ, JESUS, ES
[72] ORTEU BAENA, YAGO, ES
[72] D'HOORE, TOM NELLY A., ES
[73] HEALTHTECH BIO ACTIVES, S.L.U., ES
[85] 2017-06-13
[86] 2016-01-11 (PCT/EP2016/050355)
[87] (WO2016/113210)
[30] EP (15151362.9) 2015-01-16

[11] **2,978,951**
[13] C

[51] **Int.Cl. H04N 5/77 (2006.01) H04L 65/102 (2022.01) H04L 65/403 (2022.01) H04L 67/12 (2022.01) G08B 21/18 (2006.01) G08B 25/01 (2006.01) G08B 25/10 (2006.01) H04N 7/14 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR BIOSENSOR-TRIGGERED MULTIMEDIA COLLABORATION**
[54] **SYSTEME ET PROCEDE DE COLLABORATION MULTIMEDIA DECLENCHEE PAR DES BIOCAPTEURS**
[72] MAZZARELLA, JOSEPH R., US
[72] WENGROVITZ, MICHAEL S., US
[73] MUTUALINK, INC., US
[85] 2017-09-06
[86] 2016-03-08 (PCT/US2016/021364)
[87] (WO2016/144952)
[30] US (14/642,325) 2015-03-09

[11] **2,979,602**
[13] C

[51] **Int.Cl. C07K 14/475 (2006.01) A61K 38/00 (2006.01) C07K 14/47 (2006.01) C07K 14/765 (2006.01) C07K 16/22 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **DESIGNED ANKYRIN REPEAT DOMAINS WITH BINDING SPECIFICITY FOR SERUM ALBUMIN**
[54] **DOMAINES DE REPETITION D'ANKYRINE ARTIFICIELS AYANT UNE SPECIFICITE DE LIAISON POUR L'ALBUMINE SERIQUE**
[72] BAKKER, TALITHA, CH
[72] STUMPP, MICHAEL T., CH
[72] BINZ, HANS KASPAR, CH
[72] PHILLIPS, DOUGLAS, CH
[72] DOLADO, IGNACIO, CH
[72] FORRER, PATRIK, CH
[72] MERZ, FRIEDER W., DE
[72] SONDEREGGER, IVO, CH
[72] STEINER, DANIEL, CH
[72] GULOTTI-GEORGIEVA, MAYA, CH
[72] ABRAM SALIBA, JOHAN, CH
[73] MOLECULAR PARTNERS AG, CH
[85] 2017-09-13
[86] 2016-04-01 (PCT/EP2016/057272)
[87] (WO2016/156596)
[30] EP (15162502.7) 2015-04-02
[30] EP (15162511.8) 2015-04-02

[11] **3,001,696**
[13] C

[51] **Int.Cl. F03B 17/06 (2006.01) F03B 3/12 (2006.01) F03B 3/16 (2006.01) F03B 11/06 (2006.01)**
[25] EN
[54] **HYDROELECTRIC ENERGY SYSTEMS, AND RELATED COMPONENTS AND METHODS**
[54] **SYSTEMES A ENERGIE HYDROELECTRIQUE, ET COMPOSANTS ET PROCEDES ASSOCIES**
[72] POWER, DANIEL E., III, US
[73] OCEANA ENERGY COMPANY, US
[85] 2018-04-11
[86] 2016-10-19 (PCT/US2016/057659)
[87] (WO2017/070180)
[30] US (62/244,846) 2015-10-22

[11] **3,011,097**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **HUMANIZED, MOUSE OR CHIMERIC ANTI-CD47 MONOCLONAL ANTIBODIES**
[54] **ANTICORPS MONOCLONAUX ANTI-CD47 HUMANISES, DE SOURIS OU CHIMERIQUES**
[72] CHALONS-COTTAVOZ, MARIE, FR
[72] LAHMAR, MEHDI, FR
[72] SCHWAMBORN, KLAUS, FR
[72] BELTRAMINELLI, NICOLA, FR
[72] FALLOT, STEPHANIE, FR
[72] GARRONE, PIERRE, FR
[73] FORTY SEVEN, INC., US
[85] 2018-07-10
[86] 2017-01-11 (PCT/EP2017/050508)
[87] (WO2017/121771)
[30] EP (16150808.0) 2016-01-11
[30] EP (16172651.8) 2016-06-02

**Brevets canadiens délivrés
20 décembre 2022**

[11] **3,012,228**
[13] C

[51] **Int.Cl. G06F 7/00 (2006.01) G06F 21/60 (2013.01) G06F 7/24 (2006.01)**
[25] EN
[54] **METHOD OF COMPUTERIZED PRESENTATION OF A DOCUMENT SET VIEW FOR AUDITING INFORMATION AND MANAGING SETS OF MULTIPLE DOCUMENTS AND PAGES**
[54] **PROCEDE DE PRESENTATION INFORMATISEE DE LA VUE D'UN ENSEMBLE DE DOCUMENTS POUR VERIFIER DES INFORMATIONS ET GERER DES ENSEMBLES DE MULTIPLES DOCUMENTS ET PAGES**
[72] WEZOREK, JOSEPH W., US
[72] CHENAULT, ELLIOT, US
[73] BLUEBEAM, INC., US
[85] 2018-07-20
[86] 2017-02-13 (PCT/US2017/017715)
[87] (WO2017/139793)
[30] US (62/294,431) 2016-02-12

[11] **3,015,262**
[13] C

[51] **Int.Cl. A63G 31/02 (2006.01) F16B 7/00 (2006.01) F16B 9/00 (2006.01)**
[25] EN
[54] **PLAY STRUCTURE AND BRACKET FOR PLAY STRUCTURE**
[54] **STRUCTURE DE JEU ET SUPPORT DE STRUCTURE DE JEU**
[72] WHYMAN, DANIEL R., US
[72] MOSER, SCOTT ALAN, US
[72] VURA, JOHN ALLEN, US
[73] LEISURE TIME PRODUCTS, LLC, US
[86] (3015262)
[87] (3015262)
[22] 2018-08-24
[30] US (62/570,724) 2017-10-11
[30] US (16/111,511) 2018-08-24

[11] **3,024,760**
[13] C

[51] **Int.Cl. A61B 5/103 (2006.01) G16H 30/00 (2018.01) G16H 50/50 (2018.01)**
[25] EN
[54] **DEVICE AND METHOD FOR AUTOMATION OF MEAN AXIS OF ROTATION (MAR) ANALYSIS**
[54] **DISPOSITIF ET PROCEDE D'AUTOMATISATION DE L'ANALYSE DE L'AXE DE ROTATION MOYEN (MAR)**
[72] ABBASI, MAYAR, CA
[72] KHAN, ALSAM, CA
[73] ABBASI, MAYAR, CA
[73] KHAN, ALSAM, CA
[85] 2018-11-15
[86] 2016-05-30 (PCT/IB2016/053179)
[87] (WO2017/199068)
[30] US (62/339,017) 2016-05-19

[11] **3,025,702**
[13] C

[51] **Int.Cl. A01N 65/00 (2009.01)**
[25] EN
[54] **STABLE CANNABINOID FORMULATIONS**
[54] **FORMULATIONS DE CANNABINOIDES STABLES**
[72] VANGARA, KIRAN KUMAR, US
[72] LI, HUAGUANG, US
[72] YAN, NINGXIN, US
[72] NGUYEN, HUNG Q., US
[72] GOSKONDA, VENKAT R., US
[73] RADIUS PHARMACEUTICALS, INC., US
[85] 2018-11-26
[86] 2017-04-27 (PCT/US2017/029843)
[87] (WO2017/204986)
[30] US (15/166,476) 2016-05-27
[30] US (15/253,010) 2016-08-31

[11] **3,030,736**
[13] C

[51] **Int.Cl. H01S 3/02 (2006.01) H04B 10/50 (2013.01) H04B 10/564 (2013.01) H04B 10/00 (2013.01) H04Q 11/00 (2006.01)**
[25] EN
[54] **LASER MODULE FOR OPTICAL DATA COMMUNICATION SYSTEM**
[54] **MODULE LASER POUR SYSTEME DE COMMUNICATION OPTIQUE DE DONNEES**
[72] SUN, CHEN, US
[72] MEADE, ROY EDWARD, US
[72] WADE, MARK, US
[72] WRIGHT, ALEXANDRA, US
[72] STOJANOVIC, VLADIMIR, US
[72] RAM, RAJEEV, US
[72] POPOVIC, MILOS, US
[72] ORDEN, VAN DEREK, US
[73] AYAR LABS, INC., US
[85] 2019-01-11
[86] 2017-07-14 (PCT/US2017/042240)
[87] (WO2018/013987)
[30] US (62/362,551) 2016-07-14

[11] **3,034,949**
[13] C

[51] **Int.Cl. G01N 1/00 (2006.01) G01N 21/66 (2006.01) G01N 21/76 (2006.01)**
[25] EN
[54] **ASSAY MODULES HAVING ASSAY REAGENTS AND METHODS OF MAKING AND USING SAME**
[54] **MODULES D'ESSAIS A REACTIFS D'ESSAIS ET LEURS PROCEDES DE PREPARATION ET D'EMPLOI**
[72] DEBAD, JEFF D., US
[72] GLEZER, ELI N., US
[72] JEFFREY-COKER, BANDELE, US
[72] KUMAR, SUDEEP M., US
[72] SIGAL, GEORGE, US
[72] SPIELES, GISBERT, US
[72] TSIONKSY, MICHAEL, US
[72] WARNOCK, MICHAEL, US
[73] MESO SCALE TECHNOLOGIES, LLC, US
[86] (3034949)
[87] (3034949)
[22] 2006-12-21
[62] 2,893,383
[30] US (60/752,513) 2005-12-21
[30] US (60/752,745) 2005-12-21
[30] US (11/642,970) 2006-12-21

**Canadian Patents Issued
December 20, 2022**

[11] **3,037,353**
[13] C

[51] **Int.Cl. G01F 1/696 (2006.01) G01F 5/00 (2006.01) G01F 7/00 (2006.01)**
[25] EN
[54] **MASS FLOWMETER USING THERMAL DISPERSION TECHNOLOGY**
[54] **DEBITMETRE MASSIQUE UTILISANT UNE TECHNOLOGIE DE DISPERSION THERMIQUE**
[72] BESS, MICHAEL, US
[72] LE, DANG, US
[72] BARNETT, JACK, US
[72] OBERMAN, MARK, US
[72] PATTON, SCOTT, US
[72] WIBLE, ERIC, US
[73] FLUID COMPONENTS INTERNATIONAL LLC, US
[85] 2019-03-18
[86] 2017-09-21 (PCT/US2017/052809)
[87] (WO2018/057803)
[30] US (62/397,787) 2016-09-21

[11] **3,041,555**
[13] C

[51] **Int.Cl. E03C 1/02 (2006.01) E03C 1/04 (2006.01) F16L 39/04 (2006.01)**
[25] EN
[54] **PULLOUT FAUCET WITH MOUNTING SYSTEM**
[54] **ROBINET AVEC BEC EXTRACTIBLE, POURVU D'UN SYSTEME DE MONTAGE**
[72] JOHNSON, MICHAEL JOSEPH, US
[73] MOEN INCORPORATED, US
[85] 2019-04-18
[86] 2017-12-01 (PCT/US2017/064251)
[87] (WO2018/102708)
[30] US (15/368,064) 2016-12-02

[11] **3,042,177**
[13] C

[51] **Int.Cl. F24V 30/00 (2018.01) B65D 81/34 (2006.01) F25D 5/00 (2006.01)**
[25] EN
[54] **PORTABLE HEATING FOR SMALL QUANTITIES OF CONSUMER PRODUCT**
[54] **CHAUFFAGE PORTATIF POUR DES PETITES QUANTITES DE PRODUIT DE CONSOMMATION**
[72] SABIN, CULLEN M., US
[72] MASKELL, ALAN JAMES, US
[73] TEMPRA TECHNOLOGY, INC., US
[85] 2019-04-29
[86] 2016-10-28 (PCT/US2016/059296)
[87] (WO2017/075334)
[30] US (62/248,057) 2015-10-29

[11] **3,053,654**
[13] C

[51] **Int.Cl. F25B 15/04 (2006.01) F25B 6/04 (2006.01) F25B 15/06 (2006.01) F25B 17/02 (2006.01) F25B 27/02 (2006.01)**
[25] EN
[54] **AN ABSORPTION CHILLER**
[54] **REFROIDISSEUR A ABSORPTION**
[72] BUTLER, PAUL, GB
[72] KEANE, MICHAEL, GB
[73] CHILL TECHNOLOGIES LIMITED, GB
[85] 2019-08-15
[86] 2017-02-20 (PCT/GB2017/050433)
[87] (WO2017/141058)
[30] GB (1602886.2) 2016-02-18

[11] **3,054,893**
[13] C

[51] **Int.Cl. H04L 12/66 (2006.01)**
[25] EN
[54] **DIRECT INTERCONNECT GATEWAY**
[54] **PASSERELLE D'INTERCONNEXION DIRECTE**
[72] WILLIAMS, MATTHEW ROBERT, CA
[73] ROCKPORT NETWORKS INC., CA
[85] 2019-08-28
[86] 2018-10-12 (PCT/IB2018/057945)
[87] (WO2019/073452)
[30] CA (2982147) 2017-10-12

[11] **3,055,207**
[13] C

[51] **Int.Cl. F16G 13/10 (2006.01) B65G 17/06 (2006.01) F16G 13/06 (2006.01) F16G 13/18 (2006.01)**
[25] EN
[54] **CHAIN CONVEYOR AND COUPLER LINK FOR SAME**
[54] **TRANSPORTEUR A CHAINES ET LIAISON D'ACCOUPEMENT POUR CELUI-CI**
[72] WALKER, AARON PHILIP, US
[72] STEWART, CHRISTOPHER GEORGE, US
[73] JOY GLOBAL UNDERGROUND MINING LLC, US
[85] 2019-08-30
[86] 2018-03-06 (PCT/US2018/021224)
[87] (WO2018/165211)
[30] US (62/467,761) 2017-03-06
[30] US (62/467,767) 2017-03-06
[30] US (62/467,766) 2017-03-06
[30] US (62/467,769) 2017-03-06
[30] US (62/467,773) 2017-03-06
[30] US (62/467,770) 2017-03-06

[11] **3,055,649**
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **DISSECTION HANDPIECE WITH ASPIRATION MEANS FOR REDUCING THE APPEARANCE OF CELLULITE**
[54] **PIECE A MAIN POUR DISSECTION EQUIPEE D'UN MOYEN D'ASPIRATION ET UTILISEE POUR LIMITER L'APPARITION DE CELLULITE**
[72] CHOMAS, JAMES E., US
[72] MERCHANT, ADNAN I., US
[72] CLARK, ROBERT L., III, US
[72] BRIAN, BEN F., III, US
[73] ULTHERA, INC., US
[86] (3055649)
[87] (3055649)
[22] 2011-11-29
[62] 2,782,089
[30] US (12/975,966) 2010-12-22

[11] **3,074,339**
[13] C

[51] **Int.Cl. A61F 2/95 (2013.01) A61F 2/962 (2013.01) A61F 2/966 (2013.01)**
[25] EN
[54] **IMPLANTABLE MEDICAL DEVICE CONSTRAINT AND DEPLOYMENT APPARATUS**
[54] **APPAREIL DE DEPLOIEMENT ET DE CONTRAINTE DE DISPOSITIFS MEDICAUX IMPLANTABLES**
[72] IRWIN, CRAIG W., US
[72] SILVERMAN, JAMES D., US
[73] W. L. GORE & ASSOCIATES, INC., US
[86] (3074339)
[87] (3074339)
[22] 2015-03-06
[62] 2,940,704
[30] US (61/949,100) 2014-03-06
[30] US (14/639,699) 2015-03-05

**Brevets canadiens délivrés
20 décembre 2022**

[11] **3,075,529**
[13] C

- [51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/30 (2006.01) E21B 43/34 (2006.01)**
[25] EN
[54] **EXTRACTION METHODS AND SYSTEMS FOR RECOVERY OF OIL FROM RESERVOIRS CONTAINING MOBILE WATER**
[54] **PROCEDES ET SYSTEMES D'EXTRACTION POUR RECUPERER DU PETROLE A PARTIR DE RESERVOIRS CONTENANT DE L'EAU LIBRE**
[72] KANTZAS, APOSTOLOS, CA
[72] BRYAN, JONATHAN L., CA
[72] RICHARDSON, ROBERT, CA
[72] JONES, DONALD E. H., CA
[73] CEC NORTH STAR ENERGY LTD., CA
[85] 2020-03-11
[86] 2018-09-05 (PCT/CA2018/051070)
[87] (WO2019/046938)
[30] US (62/554,716) 2017-09-06
[30] US (62/599,439) 2017-12-15

[11] **3,077,530**
[13] C

- [51] **Int.Cl. A63B 39/00 (2006.01) A63H 1/00 (2019.01)**
[25] EN
[54] **BALL TOY**
[54] **JOUET EN FORME DE BALLE**
[72] HOLDEN, EDWARD, AU
[73] MEJJJET HOLDINGS PTY LTD, AU
[85] 2020-03-31
[86] 2018-10-10 (PCT/AU2018/051098)
[87] (WO2019/071309)
[30] AU (2017904076) 2017-10-10
[30] AU (PCT/AU2018/050106) 2018-02-09

[11] **3,079,948**
[13] C

- [51] **Int.Cl. H04L 41/5061 (2022.01) G06Q 30/04 (2012.01) H04L 67/562 (2022.01) H04L 67/565 (2022.01) H04L 67/567 (2022.01) H04L 67/60 (2022.01) G06F 15/173 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INTEGRATING CLOUD APPLICATIONS INTO A CLOUD SERVICE BROKER PLATFORM USING AN AUTOMATED, UNIVERSAL CONNECTOR PACKAGE**
[54] **SYSTEME ET METHODE D'INTEGRATION D'APPLICATIONS INFONUAGIQUES DANS UNE PLATEFORME DE COURTIER DE SERVICES INFONUAGIQUES AU MOYEN D'UNE TROUSSE DE CONNECTEUR UNIVERSEL AUTOMATISE**
[72] KUZKIN, MAXIM, US
[72] GIDDENS, TAYLOR MICHAEL, BG
[72] WIPPICH, DAVID, US
[72] KHAEROV, ALEKSANDR, RU
[72] FONTANOV, DMITRII, RU
[73] CLOUDBLUE LLC, US
[85] 2020-04-22
[86] 2018-10-30 (PCT/US2018/058260)
[87] (WO2019/089629)
[30] US (62/578,992) 2017-10-30

[11] **3,081,801**
[13] C

- [51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **TARGET INTERFERENCE SUPPRESSED ANTI-DRUG ANTIBODY ASSAY**
[54] **DOSAGE D'ANTICORPS ANTI-MEDICAMENT A INTERFERENCE DE CIBLE SUPPRIMEE**
[72] DAHL, UWE, DE
[72] JORDAN, GREGOR, DE
[72] STAACK, ROLAND, DE
[72] MOHEYSEN-ZADEH, MIRIAM, DE
[73] F. HOFFMAN-LA ROCHE AG, CH
[85] 2020-05-05
[86] 2018-11-27 (PCT/EP2018/082664)
[87] (WO2019/105916)
[30] EP (17204316.8) 2017-11-29

[11] **3,090,525**
[13] C

- [51] **Int.Cl. A61M 5/315 (2006.01)**
[25] EN
[54] **MEDICATION DELIVERY DEVICE WITH A SENSED ELEMENT**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT A ELEMENT DETECTE**
[72] BYERLY, ROY HOWARD, US
[72] BLUM, TIMOTHY MARK, US
[73] ELI LILLY AND COMPANY, US
[85] 2020-08-05
[86] 2019-02-20 (PCT/US2019/018757)
[87] (WO2019/164936)
[30] US (62/633,655) 2018-02-22
[30] US (62/779,652) 2018-12-14

[11] **3,091,467**
[13] C

- [51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/068 (2006.01) A61B 17/072 (2006.01) A61B 17/115 (2006.01)**
[25] EN
[54] **SURGICAL INSTRUMENT WITH ARTICULATION MECHANISM**
[54] **INSTRUMENT CHIRURGICAL AVEC MECANISME D'ARTICULATION**
[72] CAPPOLA, KENNETH M., US
[72] MARINI, FRANK, US
[72] HORN, KENNETH M., US
[73] COVIDIEN LP, US
[86] (3091467)
[87] (3091467)
[22] 2013-04-17
[62] 2,813,142
[30] US (61/643,389) 2012-05-07
[30] US (13/849,572) 2013-03-25

[11] **3,094,677**
[13] C

- [51] **Int.Cl. A61F 5/455 (2006.01)**
[25] EN
[54] **MENSTRUAL CUP**
[54] **COUPE MENSTRUELLE**
[72] VEKARIYA, JAYESH, CA
[72] HENDERSON, JOSEPH L., CA
[72] ALEXANDER, VICTORIA, CA
[73] SHEER SIMPLE LABORATORIES INC., CA
[86] (3094677)
[87] (3094677)
[22] 2020-09-29

**Canadian Patents Issued
December 20, 2022**

[11] **3,096,084**
[13] C

[51] **Int.Cl. C07J 63/00 (2006.01) A61K 39/39 (2006.01) C07H 15/256 (2006.01) C07J 53/00 (2006.01)**

[25] EN

[54] **TRITERPENE SAPONINS, METHODS OF SYNTHESIS, AND USES THEREOF**

[54] **SAPONINES TRITERPENIQUES, PROCEDES DE SYNTHESE ET UTILISATIONS DE CELLES-CI**

[72] GIN, DAVID, US

[72] ADAMS, MICHELLE, US

[72] DENG, KAI, US

[72] PERL, NICHOLAS, US

[72] WON, ANNIE, US

[72] LIVINGSTON, PHILIP, US

[72] RAGUPATHI, GOVIND, US

[73] SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, US

[86] (3096084)

[87] (3096084)

[22] 2009-04-08

[62] 2,993,582

[30] US (61/043,197) 2008-04-08

[11] **3,102,857**
[13] C

[51] **Int.Cl. C08J 9/12 (2006.01) C08L 23/08 (2006.01)**

[25] EN

[54] **FOAMABLE POLYOLEFIN COMPOSITIONS AND METHODS THEREOF**

[54] **COMPOSITIONS DE POLYOLEFINE POUVANT FORMER UNE MOUSSE ET PROCEDES ASSOCIES**

[72] GALIATSATOS, VASSILIOS, US

[72] CECCARANI, FABIO, US

[72] SHU, CHICHANG, US

[72] KRAMB, RYAN, US

[72] TRIASSI, IGNAZIO, US

[73] LYONDELLBASELL ADVANCED POLYMERS INC., US

[85] 2020-12-04

[86] 2019-06-14 (PCT/US2019/037293)

[87] (WO2019/241698)

[30] US (62/685,133) 2018-06-14

[11] **3,107,684**
[13] C

[51] **Int.Cl. G06Q 50/30 (2012.01)**

[25] EN

[54] **FLEET MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION DE FLOTTE**

[72] WELLMAN, TIMOTHY A., US

[72] WINNER, DEAN E., US

[73] CROWN EQUIPMENT CORPORATION, US

[86] (3107684)

[87] (3107684)

[22] 2007-12-13

[62] 2,672,471

[30] US (60/869,845) 2006-12-13

[11] **3,113,287**
[13] C

[51] **Int.Cl. C12Q 1/6869 (2018.01) C12M 1/42 (2006.01) C12Q 1/00 (2006.01) C12Q 1/34 (2006.01)**

[25] EN

[54] **ANALYSIS OF A POLYMER COMPRISING POLYMER UNITS**

[54] **ANALYSE D'UN POLYMERE COMPRENANT DES UNITES DE POLYMERE**

[72] REID, STUART WILLIAM, GB

[72] HARPER, GAVIN, GB

[72] BROWN, CLIVE GAVIN, GB

[72] CLARKE, JAMES ANTHONY, GB

[72] HERON, ANDREW JOHN, GB

[73] OXFORD NANOPORE TECHNOLOGIES PLC, GB

[86] (3113287)

[87] (3113287)

[22] 2012-09-21

[62] 2,849,624

[30] US (61/538,721) 2011-09-23

[30] US (61/617,880) 2012-03-30

[11] **3,131,964**
[13] C

[51] **Int.Cl. F02M 31/12 (2006.01) F01C 1/22 (2006.01) F01C 21/06 (2006.01)**

[25] EN

[54] **A LIQUID AIR ROTARY ENGINE**

[54] **MOTEUR A PISTON ROTATIF A AIR LIQUIDE**

[72] ANTROBUS, CRAIG, CA

[73] ANTROBUS, CRAIG, CA

[86] (3131964)

[87] (3131964)

[22] 2021-09-26

[30] CA (3,108,973) 2021-02-16

[11] **3,134,711**
[13] C

[51] **Int.Cl. G01N 1/22 (2006.01) G01N 1/00 (2006.01) G01N 1/02 (2006.01) G01N 30/00 (2006.01) G01N 30/04 (2006.01) G01N 30/06 (2006.01) G01N 30/14 (2006.01) G01N 33/00 (2006.01)**

[25] EN

[54] **MULTI-INPUT AUTO-SWITCHING GAS SAMPLE CONDITIONING SYSTEM**

[54] **SYSTEME DE CONDITIONNEMENT D'ECHANTILLON DE GAZ A COMMUTATION AUTOMATIQUE A ENTREES MULTIPLES**

[72] QUERREY, TIMOTHY L., US

[72] WOLFE, NICHOLAS S., US

[73] MUSTANG SAMPLING, LLC, US

[85] 2021-09-22

[86] 2020-04-14 (PCT/US2020/028152)

[87] (WO2020/214611)

[30] US (62/834,144) 2019-04-15

[30] US (16/847,191) 2020-04-13

[11] **3,136,032**
[13] C

[51] **Int.Cl. A01K 27/00 (2006.01) A01K 15/00 (2006.01)**

[25] EN

[54] **ANIMAL RESTRAINT SYSTEMS WITH CINCHING MECHANISMS AND ASSOCIATED DEVICES AND METHODS**

[54] **SYSTEMES DE RETENUE POUR ANIMAUX A MECANISMES DE SERRAGE ET DISPOSITIFS ET PROCEDES ASSOCIES**

[72] CONNOLLY, JILLIAN, CA

[72] FORTH, KASUMI, CA

[72] ALVES, MARILIA VALENCIO, CA

[73] RC PRODUCTS LTD., CA

[85] 2021-10-04

[86] 2020-06-02 (PCT/IB2020/000457)

[87] (WO2020/245659)

[30] US (16/430,221) 2019-06-03

**Brevets canadiens délivrés
20 décembre 2022**

[11] **3,136,247**
[13] C

[51] **Int.Cl. C01D 15/00 (2006.01) B01D 9/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR RECOVERING LITHIUM FROM BRINES**
[54] **SYSTEMES ET METHODES POUR RECUPERER LE LITHIUM DES SAUMURES**
[72] PATWARDHAN, AMIT, US
[72] EGAN, TEAGUE, US
[73] ENERGY EXPLORATION TECHNOLOGIES, INC., US
[85] 2021-10-25
[86] 2021-05-12 (PCT/US2021/032027)
[87] (WO2021/231597)
[30] US (63/023,528) 2020-05-12

[11] **3,142,058**
[13] C

[51] **Int.Cl. G01C 5/00 (2006.01) G01D 11/30 (2006.01)**
[25] EN
[54] **APPARATUS FOR USE WITH A ROTARY LASER LEVEL SYSTEM**
[54] **APPAREIL A UTILISER AVEC UN SYSTEME DE NIVEAU LASER ROTATIF**
[72] PROCYK, GRAHAM, CA
[73] PROCYK, GRAHAM, CA
[86] (3142058)
[87] (3142058)
[22] 2021-12-11
[30] US (63/124,768) 2020-12-12
[30] US (63/148,386) 2021-02-11

[11] **3,143,113**
[13] C

[51] **Int.Cl. B65D 83/48 (2006.01) B65D 83/42 (2006.01)**
[25] FR
[54] **VALVE FOR PRESSURISED CONTAINER**
[54] **VALVE POUR RECIPIENT SOUS PRESSION**
[72] BODET, HERVE, FR
[72] GAILLARD, ERIC, FR
[73] LINDAL FRANCE SAS, FR
[85] 2021-12-09
[86] 2020-07-20 (PCT/EP2020/070489)
[87] (WO2021/018656)
[30] FR (FR1908612) 2019-07-29

[11] **3,143,266**
[13] C

[51] **Int.Cl. C22B 7/00 (2006.01) C25C 1/18 (2006.01) C25C 7/06 (2006.01) H01M 10/54 (2006.01) C22B 13/06 (2006.01) H01M 10/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AQUEOUS RECOVERY OF LEAD FROM LEAD ACID BATTERIES WITH REDUCED ELECTROLYTE DEMAND**
[54] **SYSTEMES ET PROCEDES POUR RECUPERATION AQUEUSE DE PLOMB DE BATTERIES AU PLOMB-ACIDE A DEMANDE D'ELECTROLYTE REDUITE**
[72] MOHANTA, SAMARESH, US
[72] HUFFORD, JOSHUA, US
[73] AQUA METALS INC., US
[85] 2021-12-10
[86] 2020-06-12 (PCT/US2020/037539)
[87] (WO2020/252343)
[30] US (62/860,928) 2019-06-13

[11] **3,144,373**
[13] C

[51] **Int.Cl. B03D 1/002 (2006.01) B03D 1/02 (2006.01) C22B 1/00 (2006.01) C22B 15/00 (2006.01) C22B 34/34 (2006.01)**
[25] EN
[54] **FLOATATION SEPARATION OF COPPER AND MOLYBDENUM USING DISULFITE**
[54] **SEPARATION PAR FLOTTATION DU CUIVRE ET DU MOLYBDENE A L'AIDE DE DISULFITE**
[72] HIRAJIMA, TSUYOSHI, JP
[72] MIKI, HAJIME, JP
[72] SASAKI, KEIKO, JP
[72] SUYANTARA, GDE PANDHE WISNU, JP
[72] SEMOTO, YUKI, JP
[72] KUROIWA, SHIGETO, JP
[72] AOKI, YUJI, JP
[72] TANAKA, YOSHIYUKI, JP
[73] KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, JP
[73] SUMITOMO METAL MINING CO., LTD., JP
[85] 2021-12-20
[86] 2020-11-13 (PCT/JP2020/042427)
[87] (WO2021/106631)
[30] JP (2019-212060) 2019-11-25
[30] JP (2020-187828) 2020-11-11

[11] **3,146,993**
[13] C

[51] **Int.Cl. B63B 17/02 (2006.01) E04F 10/00 (2006.01) F16B 7/14 (2006.01) F16C 11/10 (2006.01)**
[25] EN
[54] **ARTICULATED TOP**
[54] **DESSUS ARTICULE**
[72] HOUGH, JUSTIN B., US
[73] DOWCO, INC., US
[86] (3146993)
[87] (3146993)
[22] 2016-11-15
[62] 2,948,745
[30] US (15/347,479) 2016-11-09

Canadian Applications Open to Public Inspection

December 4, 2022 to December 10, 2022

Demandes canadiennes mises à la disponibilité du public

4 décembre 2022 au 10 décembre 2022

[21] **3,121,031**
[13] A1
[51] **Int.Cl. B23B 49/02 (2006.01) B23B 41/00 (2006.01)**
[25] FR
[54] **INTERNAL DRILLING TEMPLATE FOR A PART GABARIT POUR PERCAGE INTERNE D'UNE PIECE**
[72] ESPOSITO, ANTONIO, FR
[72] NISTEA, RADU, FR
[72] POIRIER, ALEXANDRE, FR
[72] MASSE, JOEL, FR
[72] BERNIER, LOUIS, FR
[72] VIGNEAULT, BERNARD, FR
[72] BEAULIEU, HUGO, FR
[72] FORTIN, REJEAN, FR
[71] SAFRAN LANDING SYSTEMS CANADA INC., CA
[22] 2021-06-04
[41] 2022-12-04

[21] **3,121,072**
[13] A1
[51] **Int.Cl. A23K 10/22 (2016.01) A23K 10/26 (2016.01) A23K 20/00 (2016.01) A23K 30/00 (2016.01) A23J 1/04 (2006.01) A23J 3/32 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR USE IN FISH SILAGE**
[54] **COMPOSITIONS A UTILISER DANS UN ENSILAGE DE POISSON**
[72] WEISSENBERGER, MARKUS, CA
[72] NORDAA, STIG MAGNOR, NO
[72] BERGHEIM, OYVIND, NO
[71] FLUID ENERGY GROUP LTD, CA
[22] 2021-06-04
[41] 2022-12-04

[21] **3,121,075**
[13] A1
[51] **Int.Cl. H02G 1/12 (2006.01) H01R 43/28 (2006.01)**
[25] EN
[54] **WIRE STRIPPERS, WIRE CUTTERS, AND RELATED METHODS OF USE**
[54] **PINCES A DENUDER, COUPE-FILS ET METHODES D~UTILISATION CONNEXES**
[72] WHIPPLE, COLBY, CA
[71] WHIPPLE, COLBY, CA
[22] 2021-06-04
[41] 2022-12-04

[21] **3,121,320**
[13] A1
[51] **Int.Cl. F24T 10/17 (2018.01) F03G 4/00 (2006.01) F28D 7/12 (2006.01)**
[25] EN
[54] **GEOHERMAL RENEWABLE ENERGY FROM DEEP EARTH ENERGIE RENOUVELABLE GEOTHERMIQUE DANS LA PROFONDEUR TERRESTRE**
[72] PARKER, V. MARTIN, CA
[71] PARKER, V. MARTIN, CA
[22] 2021-06-05
[41] 2022-12-05

[21] **3,121,337**
[13] A1
[51] **Int.Cl. A61B 5/01 (2006.01) G08B 21/02 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTING HUMAN BODY TEMPERATURE**
[54] **METHODES ET SYSTEMES POUR DETECTER LA TEMPERATURE DU CORPS HUMAIN**
[72] NGUYEN, TRUNG DUNG, VN
[71] D2P TECHNOLOGY INC., CA
[22] 2021-06-07
[41] 2022-12-07

[21] **3,121,346**
[13] A1
[51] **Int.Cl. A61K 36/9068 (2006.01) A61K 9/08 (2006.01) A61K 9/14 (2006.01) A61K 9/48 (2006.01) A61K 35/64 (2015.01) A61K 36/258 (2006.01) A61K 36/284 (2006.01) A61K 36/8888 (2006.01) A61K 36/899 (2006.01) A61P 1/08 (2006.01) A61P 1/14 (2006.01)**
[25] EN
[54] **STOMACH NOURISH LIQUID LIQUIDE DE NOURRITURE POUR L'ESTOMAC**
[72] YUAN, XIAO NING, CA
[71] YUAN, XIAO NING, CA
[22] 2021-06-06
[41] 2022-12-06

[21] **3,121,355**
[13] A1
[51] **Int.Cl. A61H 99/00 (2006.01) A44C 17/00 (2006.01) A61H 39/00 (2006.01)**
[25] EN
[54] **SPINNING GEMSTONES**
[54] **PIERRES PRECIEUSES TOURNANTES**
[72] SEGAL, BENJAMIN, CA
[71] SEGAL, BENJAMIN, CA
[22] 2021-06-07
[41] 2022-12-07

[21] **3,121,366**
[13] A1
[51] **Int.Cl. A61C 5/85 (2017.01)**
[25] EN
[54] **DENTAL MATRIX FOR RESTORING A TOOTH**
[54] **MATRICE DENTAIRE POUR LA RESTAURATION D'UNE DENT**
[72] NOURI, MOHAMMAD REZA, CA
[71] FARDA HOLDINGS LTD., CA
[22] 2021-06-07
[41] 2022-12-07

Demandes canadiennes mises à la disponibilité du public
4 décembre 2022 au 10 décembre 2022

[21] **3,121,491**
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 47/00 (2012.01)**
 [25] EN
 [54] **SYSTEM, METHOD, AND MEDIUM FOR CONFIGURING OPERATION OF A PILOT PLANT FOR IN-SITU EXTRACTION OF HYDROCARBON MATERIAL**
 [54] **SYSTEME, METHODE ET MOYEN POUR CONFIGURER L'EXPLOITATION D'UNE USINE-PILOTE POUR L'EXTRACTION SUR PLACE D'UN MATERIAU D'HYDROCARBURES**
 [72] BINESH, RAZ, CA
 [72] IBATULLIN, TAIR, CA
 [72] KAVIANI, DANIAL, CA
 [72] SPEIDEL, THOMAS, CA
 [71] SUNCOR ENERGY INC., CA
 [22] 2021-06-08
 [41] 2022-12-08

[21] **3,121,499**
[13] A1

[51] **Int.Cl. E21B 47/09 (2012.01) E21B 34/00 (2006.01)**
 [25] EN
 [54] **APPARATUS, SYSTEM, AND METHOD FOR INDICATING A POSITION OF AN ACTUATOR OF WELLSITE**
 [54] **APPAREIL, SYSTEME ET METHODE POUR INDIQUER UNE POSITION D'UN ACTIONNEUR D'UN SITE DE PUIITS**
 [72] DUNCAN, ROBERT, CA
 [72] MOHAMMAD, MURAD, CA
 [72] HARPER, LINDSEY WILLIAM, CA
 [71] INTELLIGENT WELLHEAD SYSTEMS INC., CA
 [22] 2021-06-08
 [41] 2022-12-08

[21] **3,121,685**
[13] A1

[51] **Int.Cl. B23B 47/28 (2006.01) B23B 49/02 (2006.01)**
 [25] EN
 [54] **SYSTEM AND METHOD FOR INSTALLING A FLOATING SHELF**
 [54] **SYSTEME ET METHODE POUR INSTALLER UNE ETAGERE FLOTTANTE**
 [72] WHITEWAY, LARRY, CA
 [71] WHITEWAY, LARRY, CA
 [22] 2021-06-09
 [41] 2022-12-09

[21] **3,121,723**
[13] A1

[51] **Int.Cl. A01C 5/06 (2006.01) A01C 5/08 (2006.01) A01C 7/08 (2006.01)**
 [25] EN
 [54] **SEEDING TOOL AND TIP THEREFOR**
 [54] **OUTIL D'ENSEMENCEMENT ET POINTE CONNEXE**
 [72] BIGELOW, DEAN, CA
 [72] CRESSWELL, MARK, CA
 [71] F.P. BOURGAULT TILLAGE TOOLS LTD., CA
 [22] 2021-06-09
 [41] 2022-12-09

[21] **3,121,756**
[13] A1

[51] **Int.Cl. E04C 3/12 (2006.01) B27M 3/00 (2006.01) E04B 1/26 (2006.01)**
 [25] EN
 [54] **STRUCTURAL BEAM FORMED FROM LUMBER**
 [54] **POUTRE DE CHARPENTE FORMEE DE BOIS D'OEUVRE**
 [72] DEWBERRY, ANDREW T. K., CA
 [71] DEWBERRY, ANDREW T. K., CA
 [22] 2021-06-09
 [41] 2022-12-09

[21] **3,121,762**
[13] A1

[51] **Int.Cl. B05C 17/005 (2006.01) B05C 21/00 (2006.01) B65D 90/08 (2006.01) F16J 15/02 (2006.01) F16L 55/16 (2006.01)**
 [25] EN
 [54] **INJECTOR ASSEMBLY FOR SEALING LEAKS ON BOLTED TANKS AND METHOD OF USING SAME**
 [54] **ASSEMBLAGE D'INJECTEUR POUR SCELLER DES FUITES DANS LES RESERVOIRS RIVES ET METHODE D'UTILISATION**
 [72] BOJECZKO, GEORGE NICHOLAS, CA
 [72] KIRK, ROBERT GORDON, CA
 [71] KBA INDUSTRIES LIMITED, CA
 [22] 2021-06-10
 [41] 2022-12-10

[21] **3,121,768**
[13] A1

[51] **Int.Cl. H01J 37/305 (2006.01) H01L 21/26 (2006.01)**
 [25] EN
 [54] **ION BEAM CHAMBER FLUID DELIVERY APPARATUS AND METHOD AND ION BEAM ETCHER USING SAME**
 [54] **APPAREIL ET METHODE DE DISTRIBUTION DE FLUIDE DANS UNE CHAMBRE A FAISCEAU D'IONS, ET APPAREIL DE DECAPAGE IONIQUE LES UTILISANT**
 [72] PAWLOWICZ, CHRISTOPHER, CA
 [72] SORKIN, ALEXANDER, CA
 [72] FRENCH, TREVOR JASON, CA
 [72] JONES, IAN, CA
 [72] GAGNON, PAUL, CA
 [71] TECHINSIGHTS INC., CA
 [22] 2021-06-09
 [41] 2022-12-09

**Canadian Applications Open to Public Inspection
December 4, 2022 to December 10, 2022**

[21] **3,121,777**
[13] A1

[51] **Int.Cl. H03K 17/14 (2006.01) H04B 1/48 (2006.01)**
[25] EN
[54] **REDUCING INSERTION LOSS IN A SWITCH FOR A COMMUNICATION DEVICE**
[54] **REDUCTION DE LA PERTE D'INSERTION DANS UN INTERRUPTEUR POUR UN DISPOSITIF DE COMMUNICATION**
[72] GOSTYUZHEV, SERGEY, CA
[71] FUTURECOM SYSTEMS GROUP, ULC, CA
[22] 2021-06-10
[41] 2022-12-07
[30] US (17/340,880) 2021-06-07

[21] **3,121,814**
[13] A1

[51] **Int.Cl. G01C 9/26 (2006.01)**
[25] EN
[54] **EXPANDABLE LEVEL**
[54] **NIVEAU EXTENSIBLE**
[72] SCHIEL, UWE, CA
[71] SCHIEL, UWE, CA
[22] 2021-06-10
[41] 2022-12-09
[30] US (17/303,884) 2021-06-09

[21] **3,122,635**
[13] A1

[51] **Int.Cl. B60P 7/06 (2006.01)**
[25] EN
[54] **PANEL SYSTEM FOR TRUCK BOX**
[54] **SYSTEME DE PANNEAU POUR UNE CAISSE DE CAMION**
[72] SAVOIE, LUC, CA
[71] SUGARLOAF CAPITAL INC., CA
[22] 2021-06-17
[41] 2022-12-09
[30] US (17/343,394) 2021-06-09

[21] **3,124,089**
[13] A1

[51] **Int.Cl. B08B 3/10 (2006.01) B05B 15/00 (2018.01) B08B 9/093 (2006.01) C09D 201/00 (2006.01)**
[25] EN
[54] **CAVITY CLEANING AND COATING SYSTEM**
[54] **NETTOYAGE DE CAVITE ET SYSTEME DE REVETEMENT**
[72] GOHL, RUSSELL, US
[71] GOHL, RUSSELL, US
[22] 2021-07-09
[41] 2022-12-09
[30] US (17343079) 2021-06-09

[21] **3,127,968**
[13] A1

[51] **Int.Cl. B01J 20/26 (2006.01) B01J 20/30 (2006.01)**
[25] EN
[54] **AMPHOTERIC BIOMASS-BASED HYPERBRANCHED ADSORPTION MATERIAL TO MULTIPLE HEAVY METAL IONS AND PREPARATION METHOD AND USE THEREOF**
[54] **MATERIAU D'ADSORPTION HYPER-RAMIFIE A BASE DE BIOMASSE AMPHOTERE POUR MULTIPLIER LES IONS DE METAL LOURD, METHODE DE PREPARATION ET UTILISATION**
[72] ZHU, HONGXIANG, CN
[72] HE, HUI, CN
[72] XUE, FEI, CN
[72] WANG, LEI, CN
[72] LEI, XIANLIN, CN
[71] GUANGXI UNIVERSITY, CN
[22] 2021-08-12
[41] 2022-12-10
[30] CN (202110649368.0) 2021-06-10

[21] **3,131,822**
[13] A1

[51] **Int.Cl. C12M 1/42 (2006.01) C12Q 1/6806 (2018.01) C12M 1/00 (2006.01) C12M 1/33 (2006.01) C12N 1/06 (2006.01) C12N 13/00 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR OPENING AN EXTERNAL LAYER STRUCTURE OF CELLS USING LASER**
[54] **METHODE ET SYSTEME POUR OUVRIR UNE STRUCTURE DE COUCHE EXTERNE DE CELLULES AU MOYEN D'UN LASER**
[72] LAI, YING-TA, TW
[72] OU, YU-CHENG, TW
[72] CHEN, YI-HSI, TW
[72] TSAI, CHUNG-WEI, TW
[72] CHEN, KUAN-YING, TW
[72] TSAI, RUEI-YI, TW
[72] CHEN, CHIH-YUAN, TW
[71] CREDO DIAGNOSTICS BIOMEDICAL PTE. LTD., SG
[22] 2021-09-23
[41] 2022-12-07
[30] TW (TW 110120587) 2021-06-07

[21] **3,133,664**
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) A61J 1/20 (2006.01) A61K 9/72 (2006.01) A61K 38/28 (2006.01) A61M 11/00 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **PRECISE INSULIN AEROSOLIZATION AND RESPIRATORY SYSTEM AEROSOLIZATION DEVICE**
[54] **PULVERISATION PRECISE D'INSULINE ET DISPOSITIF DE PULVERISATION DANS LE SYSTEME RESPIRATOIRE**
[72] TIAN, ZHONGSHU, CN
[72] CUI, JINGYAN, CN
[71] TIAN, ZHONGSHU, CN
[71] CUI, JINGYAN, CN
[22] 2021-10-08
[41] 2022-12-07
[30] CN (202110650243.X) 2021-06-07

Demandes canadiennes mises à la disponibilité du public
4 décembre 2022 au 10 décembre 2022

[21] **3,143,044**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/26 (2006.01) G01N 1/28 (2006.01) G01N 33/48 (2006.01) C12M 1/34 (2006.01) C12N 15/10 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **ANALYSIS CARTRIDGE**
[54] **CARTOUCHE D'ANALYSE**
[72] LAI, YING-TA, TW
[72] OU, YU-CHENG, TW
[72] LIAO, JIM-YI, TW
[72] HUANG, SHU-HONG, TW
[72] HUANG, FAN-YUN, TW
[72] TSAI, RUEI-YI, TW
[72] HSIUNG, LI-YU, TW
[71] CREDO DIAGNOSTICS
BIOMEDICAL PTE. LTD., SG
[22] 2021-12-17
[41] 2022-12-07
[30] TW (TW 110120577) 2021-06-07

[21] **3,146,214**
[13] A1

[51] **Int.Cl. B64D 9/00 (2006.01) B64D 1/00 (2006.01) B66C 1/12 (2006.01)**

[25] EN
[54] **A MODULAR LOAD CARRYING APPARATUS WITH INTERCHANGEABLE PLATFORMS**
[54] **APPAREIL DE PORT DE CHARGE MODULAIRE COMPRENANT DES PLATEFORMES INTERCHANGEABLES**
[72] VOGEL, DOMINIK, DE
[72] DINCA, ALEXANDRU, DE
[71] AIRBUS HELICOPTERS
DEUTSCHLAND GMBH, DE
[22] 2022-01-20
[41] 2022-12-08
[30] EP (21400011.9) 2021-06-08

[21] **3,146,330**
[13] A1

[51] **Int.Cl. B64D 9/00 (2006.01) B64D 1/00 (2006.01) B66C 1/12 (2006.01)**

[25] EN
[54] **A MODULAR LOAD CARRYING APPARATUS WITH A CARRIER STAR**
[54] **APPAREIL DE PORT DE CHARGE MODULAIRE COMPRENANT UNE ETOILE DE SUPPORT**
[72] VOGEL, DOMINIK, DE
[72] DINCA, ALEXANDRU, DE
[71] AIRBUS HELICOPTERS
DEUTSCHLAND GMBH, DE
[22] 2022-01-20
[41] 2022-12-08
[30] EP (21400012.7) 2021-06-08

[21] **3,146,526**
[13] A1

[51] **Int.Cl. C04B 40/02 (2006.01) B28B 11/24 (2006.01)**

[25] EN
[54] **LOW PRESSURE CARBONATION CURING OF CONCRETE ELEMENTS AND PRODUCTS IN AN EXPANDABLE ENCLOSURE**
[54] **TRAITEMENT PAR CARBONATATION BASSE PRESSION D'ELEMENTS ET DE PRODUITS DE BETON DANS UNE ENCEINTE EXPANSIBLE**
[72] SHAO, YIXIN, CA
[72] XIAN, XIANGPING, CA
[72] MAHOUTIAN, MEHRDAD, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY, CA
[22] 2022-01-21
[41] 2022-12-07
[30] US (63/197,660) 2021-06-07

[21] **3,146,677**
[13] A1

[51] **Int.Cl. G06F 21/00 (2013.01) G06F 16/27 (2019.01) G06F 17/00 (2019.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR BOT MITIGATION**
[54] **SYSTEMES ET METHODES D'ATTENUATION DES ROBOTS**
[72] MEUNIER, DEVON, CA
[72] SIDAT, OSAMA, CA
[72] LEE, JOHN JONG-SUK, CA
[72] HO, DENNIS, CA
[71] SHOPIFY INC., CA
[22] 2022-01-26
[41] 2022-12-08
[30] US (17/341,700) 2021-06-08

[21] **3,146,991**
[13] A1

[51] **Int.Cl. G06F 16/23 (2019.01) G06F 16/27 (2019.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING TRANSFERS OF DIGITAL ASSETS**
[54] **SYSTEMES ET METHODES POUR LE CONTROLE DES TRANSFERTS DE BIENS NUMERIQUES**
[72] LEE, JOHN JONG-SUK, CA
[71] SHOPIFY INC., CA
[22] 2022-01-28
[41] 2022-12-10
[30] US (17/344,251) 2021-06-10

[21] **3,148,060**
[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 50/06 (2012.01) H04L 43/0829 (2022.01) H04L 67/12 (2022.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR EVALUATING DATA TRANSPORTABILITY IN DISTRIBUTION GRIDS**
[54] **METHODES ET SYSTEMES POUR EVALUER LA PORTABILITE DES DONNEES DANS LES RESEAUX DE DISTRIBUTION**
[72] TAFT, JEFFREY D., US
[72] AKSOY, SINAN G., US
[72] NEUBAUER, CASEY C., US
[72] UPTON, SCOTT A., US
[71] BATTELLE MEMORIAL INSTITUTE, US
[22] 2022-02-07
[41] 2022-12-04
[30] US (17/339,806) 2021-06-04

**Canadian Applications Open to Public Inspection
December 4, 2022 to December 10, 2022**

[21] **3,148,188**
[13] A1

[51] **Int.Cl. H04W 4/80 (2018.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ACTIVE NFC PAYMENT DEVICE MANAGEMENT**
[54] **METHODE ET SYSTEME DE GESTION ACTIVE DE DISPOSITIF DE PAIEMENT PAR COMMUNICATION EN CHAMP PROCHE**
[72] DEFAZIO, MICHAEL JOSEPH, CA
[72] LEE, JOHN S., CA
[72] PADGETT, NEIL LEONARD, CA
[71] SHOPIFY INC., CA
[22] 2022-02-07
[41] 2022-12-10
[30] US (17/344,492) 2021-06-10

[21] **3,150,311**
[13] A1

[51] **Int.Cl. H04W 92/00 (2009.01) H04W 76/45 (2018.01) H04W 4/10 (2009.01)**
[25] EN
[54] **MOBILE CONVERSION APPARATUS FOR DOCKING CELLULAR DATA DEVICES**
[54] **APPAREIL DE CONVERSION MOBILE POUR ACCUEILLIR DES DISPOSITIFS DE DONNEES CELLULAIRES**
[72] SELENFREUND, MARC, IL
[72] BRACHA, GIDI, IL
[71] SIYATA MOBILE INC., CA
[22] 2022-02-28
[41] 2022-12-09
[30] US (63/208,781) 2021-06-09

[21] **3,151,054**
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) B65G 1/02 (2006.01)**
[25] EN
[54] **DYNAMIC ROUTING OF AUTONOMOUS VEHICLES**
[54] **ACHEMINEMENT DYNAMIQUE DE VEHICULES AUTONOMES**
[72] FRANEY, CATHERINE JONES, CA
[72] LARSON, JEFFREY, CA
[71] 6 RIVER SYSTEMS, LLC, US
[22] 2022-02-24
[41] 2022-12-09
[30] US (17/342932) 2021-06-09
[30] EP (22151378.1) 2022-01-13

[21] **3,151,535**
[13] A1

[51] **Int.Cl. E04B 2/88 (2006.01)**
[25] EN
[54] **CURTAIN WALL AND DRAINAGE CAVITY FOR CURTAIN WALL UNIT**
[54] **MUR-RIDEAU ET CAVITE DE DRAINAGE POUR UNE UNITE DE MUR-RIDEAU**
[72] MARZOTTO, MICHELE, US
[72] KOPREK, DERICK JASON, US
[71] PERMASTEELISA NORTH AMERICA CORP., US
[22] 2022-03-08
[41] 2022-12-08
[30] US (17/342,068) 2021-06-08

[21] **3,151,886**
[13] A1

[51] **Int.Cl. F15B 19/00 (2006.01) B64F 5/60 (2017.01) B64C 13/42 (2006.01)**
[25] EN
[54] **CONTROL STRATEGY FOR HYDRAULIC SYSTEM**
[54] **STRATEGIE DE COMMANDE POUR UN CIRCUIT HYDRAULIQUE**
[72] HARRISON, COLIN ROGER, GB
[71] GOODRICH ACTUATION SYSTEMS LIMITED, GB
[22] 2022-03-10
[41] 2022-12-09
[30] EP (21178618.1) 2021-06-09

[21] **3,152,717**
[13] A1

[51] **Int.Cl. B25H 5/00 (2006.01) B25B 1/02 (2006.01) B25B 1/24 (2006.01)**
[25] EN
[54] **TOOL MOUNTING DEVICE**
[54] **DISPOSITIF DE SUPPORT D'OUTIL**
[72] HENRY JR., MARK ANTHONY, US
[72] ROGERS, JOSHUA MERLE, US
[72] GEREZ, JOSHUA MICHAEL, US
[71] ADRIAN STEEL COMPANY, US
[22] 2022-03-18
[41] 2022-12-08
[30] US (63/208,164) 2021-06-08
[30] US (17/652,106) 2022-02-23

[21] **3,153,138**
[13] A1

[51] **Int.Cl. A01B 69/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING WINDROW SIZE**
[54] **SYSTEMES ET METHODES POUR CONTROLER UNE TAILLE D~ANDAIN**
[72] HILL, KELLEN B., US
[72] USASZ, MITCHELL R., US
[72] THIES, ERIC M., US
[71] DEERE & COMPANY, US
[22] 2022-03-16
[41] 2022-12-04
[30] US (17/030,672) 2021-06-04

[21] **3,153,495**
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 34/00 (2016.01) A61B 34/30 (2016.01) A61B 17/06 (2006.01)**
[25] EN
[54] **APPARATUS FOR CLOSING A SURGICAL SITE**
[54] **APPAREIL DE FERMETURE D'UN SITE CHIRURGICAL**
[72] MUNDAY, GEORGE SWOPE, US
[71] MUNDAY, GEORGE SWOPE, US
[22] 2022-03-22
[41] 2022-12-08
[30] US (17/341,497) 2021-06-08
[30] US (17/571,992) 2022-01-10

[21] **3,154,197**
[13] A1

[51] **Int.Cl. B60S 5/00 (2006.01)**
[25] EN
[54] **FLUID RESERVOIR SYSTEM OF A VEHICLE**
[54] **SYSTEME DE RESERVOIR A FLUIDE D'UN VEHICULE**
[72] SORENSEN, TOM LEE, US
[71] INTERNATIONAL TRUCK INTELLECTUAL PROPERTY COMPANY, LLC, US
[22] 2022-04-05
[41] 2022-12-07
[30] US (17/340,988) 2021-06-07

Demandes canadiennes mises à la disponibilité du public
4 décembre 2022 au 10 décembre 2022

[21] **3,155,194**
 [13] A1

[51] **Int.Cl. A47K 5/04 (2006.01)**
 [25] EN
 [54] **SOAP HOLDER**
 [54] **PORTE-SAVON**
 [72] MACNEIL, DAVID F., US
 [72] IVERSON, DAVID S., US
 [71] MACNEIL IP LLC, US
 [22] 2022-04-05
 [41] 2022-12-10
 [30] US (17/344324) 2021-06-10

[21] **3,155,460**
 [13] A1

[51] **Int.Cl. A21D 10/02 (2006.01) A21D 8/02 (2006.01)**
 [25] EN
 [54] **APPARATUS AND METHOD FOR PRODUCING SCORED DOUGH PIECES**
 [54] **APPAREIL ET METHODE DE PRODUCTION DE MORCEAUX DE PATE LAMES**
 [72] COX, STEVEN J., US
 [72] DOMINGUES, DAVID J., US
 [72] FLUENTES, ROGER G., US
 [72] HENDERSON, PAUL, US
 [72] HOBART, KARA M., US
 [72] MURCH, OLIVIA, US
 [72] VEMULAPALLI, VANI, US
 [71] GENERAL MILLS, INC., US
 [22] 2022-04-11
 [41] 2022-12-10
 [30] US (17/343950) 2021-06-10

[21] **3,155,951**
 [13] A1

[51] **Int.Cl. G09F 3/03 (2006.01) B42D 25/00 (2014.01) B32B 3/24 (2006.01) B32B 38/04 (2006.01) B32B 38/14 (2006.01) G09F 3/10 (2006.01) B41J 2/435 (2006.01)**
 [25] EN
 [54] **FILM COMPOSITE WITH PROTECTION AGAINST TAMPERING**
 [54] **PELLICULE COMPOSITE A PROTECTION CONTRE LES ALTERATIONS**
 [72] DANTONELLO, KATHARINA, DE
 [72] DICK, SEBASTIAN, DE
 [72] WALTER, MARK, DE
 [72] VOR DER BRUGGEN, JENS, DE
 [72] SCHIRDEWAHN, BERNHARD, DE
 [71] SCHREINER GROUP GMBH & CO. KG, DE
 [22] 2022-04-12
 [41] 2022-12-09
 [30] DE (102021114841.3) 2021-06-09

[21] **3,156,201**
 [13] A1

[51] **Int.Cl. B60W 20/00 (2016.01) B60L 50/30 (2019.01) B60L 50/70 (2019.01) B60L 50/75 (2019.01)**
 [25] EN
 [54] **DRIVING CONTROL STRATEGY FOR HYBRID ENERGY SYSTEM BASED ON FUEL CELL, LITHIUM BATTERY AND ELECTRIC FLYWHEEL BATTERY**
 [54] **STRATEGIE DE COMMANDE D'ENTRAINEMENT POUR UN SYSTEME D'ENERGIE HYBRIDE A BASE DE PILE A COMBUSTIBLE, BATTERIE AU LITHIUM ET BATTERIE A VOLANT ELECTRIQUE**
 [72] SUN, BINBIN, CN
 [72] ZHANG, TIEZHU, CN
 [72] LI, BO, CN
 [72] GE, WENQING, CN
 [72] GABER, HOSSAM ELSAYED, CN
 [72] WANG, YONGJUN, CN
 [72] LI, WENTAO, CN
 [71] SHANDONG UNIVERSITY OF TECHNOLOGY, CN
 [22] 2022-04-22
 [41] 2022-12-09
 [30] CN (202110470782.5) 2021-06-09

[21] **3,156,960**
 [13] A1

[51] **Int.Cl. A61F 2/20 (2006.01)**
 [25] EN
 [54] **EASY VOICE PROSTHESIS LOADING INSERTION DEVICE**
 [54] **DISPOSITIF D'INSERTION DE PROTHESE VOCALE FACILE**
 [72] GLEN, KEVIN ALAN, US
 [72] STROUMPOULIS, DIMITRIOS, US
 [71] FREUDENBERG MEDICAL, LLC, US
 [22] 2022-04-22
 [41] 2022-12-07
 [30] US (17/340,527) 2021-06-07

[21] **3,157,191**
 [13] A1

[51] **Int.Cl. F41C 27/00 (2006.01) F41A 35/00 (2006.01)**
 [25] EN
 [54] **WEAPON GRIP ACCESSORY ATTACHMENT SYSTEM**
 [54] **SYSTEME DE FIXATION D~ACCESSOIRE DE POIGNEE D~ARME**
 [72] ACQUAH, MICHAEL, CA
 [71] ACQUAH, MICHAEL, CA
 [22] 2022-05-02
 [41] 2022-12-04
 [30] US (63/196,915) 2021-06-04

[21] **3,157,601**
 [13] A1

[51] **Int.Cl. D21F 1/00 (2006.01) D21F 1/54 (2006.01)**
 [25] EN
 [54] **SCRAPER BAR FOR USE IN A PLANT FOR PRODUCING A PAPER WEB AND PLANT HAVING THE SCRAPER BAR**
 [54] **BARRE DE GRATTOIR A UTILISER DANS UNE USINE DE PRODUCTION DE TOILE DE PAPIER ET USINE COMPRENANT LA BARRE DE GRATTOIR**
 [72] BARTELMUSS, KLAUS, AT
 [71] BARTELMUSS, KLAUS, AT
 [22] 2022-05-04
 [41] 2022-12-08
 [30] AT (A 50464/2021) 2021-06-08

**Canadian Applications Open to Public Inspection
December 4, 2022 to December 10, 2022**

[21] **3,159,987**
[13] A1

[51] **Int.Cl. A47C 7/16 (2006.01) A47C 5/12 (2006.01) A47C 7/14 (2006.01)**
[25] EN
[54] **A CHAIR WITH A FLEXIBLE BACKREST**
[54] **FAUTEUIL A DOSSIER SOUPLE**
[72] PIRETTI, ALESSANDRO, IT
[71] PRO-CORD S.P.A., IT
[22] 2022-05-24
[41] 2022-12-04
[30] IT (102021000014576) 2021-06-04

[21] **3,160,115**
[13] A1

[51] **Int.Cl. H02G 1/12 (2006.01)**
[25] EN
[54] **WIRE STRIPPERS, WIRE CUTTERS, AND RELATED METHODS OF USE**
[54] **PINCES A DENUDEUR, COUPE-FILS ET METHODES D'UTILISATION CONNEXES**
[72] WHIPPLE, COLBY, CA
[71] WHIPPLE, COLBY, CA
[22] 2022-05-20
[41] 2022-12-04
[30] CA (3121075) 2021-06-04

[21] **3,160,193**
[13] A1

[51] **Int.Cl. B64D 15/16 (2006.01) F03D 80/40 (2016.01) B64D 15/20 (2006.01) F25C 5/06 (2006.01)**
[25] EN
[54] **MECHANICAL ICE PROTECTION SYSTEM FOR AERODYNAMIC SURFACES**
[54] **SYSTEME DE PROTECTION MECANIQUE CONTRE LA GLACE POUR LES SURFACES AERODYNAMIQUES**
[72] BOTURA, GALDEMIR CEZAR, US
[72] TAYLOR, ANDREW, US
[71] GOODRICH CORPORATION, US
[22] 2022-05-24
[41] 2022-12-10
[30] US (17/343,969) 2021-06-10

[21] **3,160,236**
[13] A1

[51] **Int.Cl. B05B 1/18 (2006.01)**
[25] EN
[54] **CUP-SHAPED SHOWER JET OUTLET NOZZLE AND SHOWER DEVICE**
[54] **POMME POUR JET DE DOUCHE EN FORME DE COUPE ET APPAREIL A DOUCHER**
[72] BILGER, MARCEL, DE
[72] KINLE, ULRICH, DE
[72] JONAT, PASCAL, DE
[72] WOHRLE, MARKUS, DE
[71] HANSGROHE SE, DE
[22] 2022-05-25
[41] 2022-12-10
[30] DE (DE 102021205915.5) 2021-06-10

[21] **3,160,494**
[13] A1

[51] **Int.Cl. C10M 137/10 (2006.01)**
[25] EN
[54] **LUBRICATING COMPOSITIONS FOR A HYBRID ENGINE**
[54] **COMPOSITIONS DE LUBRIFICATION POUR UN MOTEUR HYBRIDE**
[72] SHAO, HUIFANG, US
[72] DEVLIN, MARK, US
[72] CARPENTER, GUILLAUME, GB
[72] RANSOM, PAUL, GB
[71] AFTON CHEMICAL CORPORATION, US
[22] 2022-05-26
[41] 2022-12-04
[30] US (63/197171) 2021-06-04

[21] **3,160,560**
[13] A1

[51] **Int.Cl. F24C 15/00 (2006.01) A01N 25/18 (2006.01) A01N 61/00 (2006.01) A01P 17/00 (2006.01) F24C 3/02 (2006.01)**
[25] EN
[54] **GAS FIRE PIT WITH REPELLENT CAPABILITIES**
[54] **FOYER A GAZ COMPORTANT DES CAPACITES DE REPULSION**
[72] RESSLER, KYLE, US
[72] ZEITLER, LUCAS HENRY, US
[72] HARMELING, ANDREW ALAN, US
[72] YU, BEN, US
[71] LAMPLIGHT FARMS INCORPORATED, US
[22] 2022-06-01
[41] 2022-12-04
[30] US (63/197,151) 2021-06-04
[30] US (17/824,032) 2022-05-25

[21] **3,160,820**
[13] A1

[51] **Int.Cl. B64D 11/00 (2006.01) A47C 17/80 (2006.01) B62D 33/06 (2006.01)**
[25] EN
[54] **RESTING AREA SYSTEMS FOR AN INTERNAL CABIN OF A VEHICLE**
[54] **SYSTEMES DE ZONE DE REPOS POUR UNE CABINE INTERNE D'UN VEHICULE**
[72] MAIR, ROLAND, US
[71] THE BOEING COMPANY, US
[22] 2022-05-30
[41] 2022-12-04
[30] US (63/196,722) 2021-06-04

[21] **3,160,822**
[13] A1

[51] **Int.Cl. F01D 11/00 (2006.01) F01D 9/00 (2006.01) F01D 11/08 (2006.01) F04D 29/42 (2006.01)**
[25] EN
[54] **REDIRECTING STATOR FLOW DISCOURAGER**
[54] **REACHEMINEMENT DU LIMITEUR DE FLUX DE STATOR**
[72] KIM, YONG W., US
[72] LOCKYER, JOHN F., US
[71] SOLAR TURBINES INCORPORATED, US
[22] 2022-05-27
[41] 2022-12-10
[30] US (17/344,684) 2021-06-10

[21] **3,160,835**
[13] A1

[51] **Int.Cl. E03D 1/30 (2006.01)**
[25] EN
[54] **WATER-SAVING DEVICE FOR FLUSH TOILETS**
[54] **DISPOSITIF D'ECONOMIE D'EAU POUR TOILETTES A CHASSE D'EAU**
[72] KUCERA, JAROSLAV, CS
[71] KUCERA, JAROSLAV, CS
[22] 2022-05-27
[41] 2022-12-06
[30] CZ (PUV2021-285) 2021-06-06

**Demandes canadiennes mises à la disponibilité du public
4 décembre 2022 au 10 décembre 2022**

[21] **3,160,891**
[13] A1

[51] **Int.Cl. B65D 55/06 (2006.01) B65D 55/02 (2006.01) G09F 3/03 (2006.01)**
[25] EN
[54] **CONTAINER ASSEMBLY INCLUDING LABEL**
[54] **ASSEMBLAGE DE CONTENANT COMPRENANT UNE ETIQUETTE**
[72] HERRINGTON, JEFFREY G., CA
[71] 1918497 ONTARIO INC., CA
[22] 2022-05-26
[41] 2022-12-07
[30] US (17/340,759) 2021-06-07

[21] **3,160,900**
[13] A1

[51] **Int.Cl. F02C 6/08 (2006.01) F02C 9/18 (2006.01) F02K 3/02 (2006.01)**
[25] EN
[54] **TURBOFAN ENGINE AND METHOD OF OPERATING SAME**
[54] **TURBOSOUFFLANTE ET PROCEDE DE FONCTIONNEMENT**
[72] DIOSADY, LASLO, CA
[72] ALECU, DANIEL, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-05-27
[41] 2022-12-10
[30] US (17/344,185) 2021-06-10

[21] **3,160,904**
[13] A1

[51] **Int.Cl. C10M 133/58 (2006.01) C10M 133/04 (2006.01) C10M 133/44 (2006.01)**
[25] EN
[54] **LUBRICANT COMPOSITION FOR REDUCED ENGINE SLUDGE**
[54] **COMPOSITION DE LUBRIFIANT POUR REDUIRE LA BOUE DE MOTEUR**
[72] DINGWELL, LISA, US
[72] ROSANA, MICHAEL, US
[71] AFTON CHEMICAL CORPORATION, US
[22] 2022-05-27
[41] 2022-12-04
[30] US (17/339286) 2021-06-04

[21] **3,160,931**
[13] A1

[51] **Int.Cl. H02J 4/00 (2006.01) F41H 13/00 (2006.01) H02H 3/08 (2006.01) H02J 3/00 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION SYSTEM, CONTROL SYSTEM, RAILWAY TRANSPORTATION SYSTEM AND METHOD FOR OPERATING A POWER DISTRIBUTION SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'ENERGIE, SYSTEME DE COMMANDE, SYSTEME DE TRANSPORT FERROVIAIRE ET METHODE D'EXPLOITATION D'UN SYSTEME DE DISTRIBUTION D'ENERGIE**
[72] STAN, OVIDIU, CA
[72] KLASMEIER, HOLGER, DE
[71] THALES MANAGEMENT & SERVICES DEUTSCHLAND GMBH, DE
[22] 2022-05-30
[41] 2022-12-09
[30] EP (EP21178656.1) 2021-06-09

[21] **3,160,984**
[13] A1

[51] **Int.Cl. B27B 29/00 (2006.01)**
[25] EN
[54] **ADJUSTIBLE HOLD-DOWN SHOE ASSEMBLY, PLANERMILL TRIMMER HAVING THE ASSEMBLY MOUNTED THEREON, AND METHOD OF USING THE ASSEMBLY TO HOLD DOWN LUMBER DURING END CUTTING BY A PLANERMILL TRIMMER**
[54] **ASSEMBLAGE DE SABOT DE RETENUE AJUSTABLE, LAME DE FRAISEUSE-RABOTEUSE COMPRENANT L'ASSEMBLAGE ET METHODE D'UTILISATION DE L'ASSEMBLAGE POUR RETENIR LE BOIS PENDANT UNE COUPE D'EXTREMITE PAR LA LAME DE FRAISEUSE-RABOTEUSE**
[72] ANDERSON, JAMES L., US
[72] KENNEDY, RUSSELL R., US
[72] TINSLEY, DOUGLAS MONROE, US
[72] GREEN, THOMAS WAYNE, US
[71] TIMBER AUTOMATION, LLC, US
[22] 2022-05-30
[41] 2022-12-07
[30] US (63/197,543) 2021-06-07
[30] US (17/739,406) 2022-05-09

[21] **3,160,987**
[13] A1

[51] **Int.Cl. F03D 7/00 (2006.01) F03D 80/40 (2016.01)**
[25] EN
[54] **A METHOD FOR OPERATING A WIND TURBINE AND A WIND TURBINE**
[54] **EOLIENNE ET METHODE D'EXPLOITATION D'UNE EOLIENNE**
[72] BECKER, JORN, DE
[71] GENERAL ELECTRIC RENOVABLES ESPANA S.L., ES
[22] 2022-05-30
[41] 2022-12-08
[30] EP (21178317) 2021-06-08

[21] **3,161,058**
[13] A1

[51] **Int.Cl. B26D 7/26 (2006.01)**
[25] EN
[54] **CARTRIDGE ADAPTED TO SECURE RECIPROCATING BREAD SLICER BLADES**
[54] **CARTOUCHE ADAPTEE POUR FIXER DES LAMES DE COUPE DE PAIN A VA-ET-VIENT**
[72] BIROS, JAMES A., US
[72] FREDRICKS, CONOR ALAN, US
[72] MATZ, VANCE JOHN, US
[72] FREDRICKS, BRUCE ALAN, US
[72] JOHNSON, YVONNE M., US
[72] MILLER, DAVID BLUGERMAN, US
[72] KORTMAN, JOHN CURTIS, US
[71] OLIVER PACKAGING AND EQUIPMENT COMPANY, US
[22] 2022-05-31
[41] 2022-12-04
[30] US (17/339,564) 2021-06-04

**Canadian Applications Open to Public Inspection
December 4, 2022 to December 10, 2022**

[21] **3,161,071**
[13] A1

[51] **Int.Cl. A23P 20/15 (2016.01) A23P 20/00 (2016.01) A21C 11/02 (2006.01) A23G 3/02 (2006.01)**

[25] EN

[54] **SYSTEM FOR DEPOSITING FOODSTUFF MATERIAL IN THE FLUID STATE ON A FOODSTUFF PRODUCT**

[54] **SYSTEME POUR DEPOSER DES MATIERES ALIMENTAIRES A L'ETAT LIQUIDE SUR UN PRODUIT ALIMENTAIRE**

[72] MOLLO, MARCO, LU

[72] ARAGONE, GIOVANNI, LU

[72] GUASTALLI, ROMILBERT, LU

[71] SOREMARTEC S.A., LU

[22] 2022-05-31

[41] 2022-12-10

[30] IT (102021000015269) 2021-06-10

[21] **3,161,426**
[13] A1

[51] **Int.Cl. H01M 8/1246 (2016.01) H01M 8/2432 (2016.01) C25B 9/70 (2021.01) C25B 13/07 (2021.01) C25B 1/04 (2021.01) C25B 11/04 (2021.01) H01M 4/86 (2006.01)**

[25] EN

[54] **ELECTROCHEMICAL CELL AND ELECTROCHEMICAL CELL STACK**

[54] **CELLULE ELECTROCHIMIQUE ET ASSEMBLAGE DE CELLULES ELECTROCHIMIQUES**

[72] OSADA, NORIKAZU, JP

[72] KAMEDA, TSUNEJI, JP

[71] TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION, JP

[22] 2022-06-02

[41] 2022-12-08

[30] JP (2021-095732) 2021-06-08

[30] JP (2022-081464) 2022-05-18

[21] **3,161,470**
[13] A1

[51] **Int.Cl. C02F 1/00 (2006.01) C05F 7/00 (2006.01)**

[25] EN

[54] **CONTROLLED IRRIGATION PROCESS AND SYSTEM FOR LAND APPLICATION OF WASTEWATER**

[54] **PROCEDE D'IRRIGATION CONTROLEE ET SYSTEME D'APPLICATION TERRESTRE D'EAUX USEES**

[72] LACHAPELLE-TROUILLARD, XAVIER, CA

[72] BARBEAU, LOUIS-CLEMENT, CA

[72] ALLARD, FRANCIS, CA

[72] PAYETTE, OLIVER, CA

[71] GROUPE RAMO INC., CA

[22] 2022-06-03

[41] 2022-12-04

[30] US (63/196,849) 2021-06-04

[21] **3,161,081**
[13] A1

[51] **Int.Cl. A23P 20/15 (2016.01) A23P 20/00 (2016.01) A21C 11/02 (2006.01) A23G 3/02 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING A FOODSTUFF PRODUCT HAVING A DECORATION**

[54] **PROCEDE DE PRODUCTION D'UN PRODUIT ALIMENTAIRE DECORE**

[72] MOLLO, MARCO, LU

[72] ARAGONE, GIOVANNI, LU

[72] GUASTALLI, ROMILBERT, LU

[71] SOREMARTEC S.A., LU

[22] 2022-05-31

[41] 2022-12-10

[30] IT (102021000015266) 2021-06-10

[21] **3,161,459**
[13] A1

[25] EN

[54] **PROTECTIVE FILM REMOVING APPARATUS AND METHOD EACH FOR REMOVING A PROTECTIVE FILM FROM AN OPTICAL LENS**

[54] **APPAREIL ET METHODE DE RETRAIT DE PELLICULE DE PROTECTION D'UNE LENTILLE OPTIQUE**

[72] VOLKEN, CLAUDE, CH

[72] LACK, OSWIN, DE

[72] VALLERIUS, RALF, DE

[72] HANSCH, SVEN, DE

[71] OPTOTECH OPTIKMASCHINEN GMBH, DE

[22] 2022-06-02

[41] 2022-12-07

[30] EP (21178072.1) 2021-06-07

[21] **3,161,482**
[13] A1

[51] **Int.Cl. G07F 17/32 (2006.01) A63F 1/00 (2006.01)**

[25] EN

[54] **GAME SYSTEM**

[54] **SYSTEME DE JEU**

[72] SHIGETA, YASUSHI, JP

[71] ANGEL GROUP CO., LTD., JP

[22] 2022-06-03

[41] 2022-12-04

[30] JP (JP2021-094369) 2021-06-04

[21] **3,161,229**
[13] A1

[51] **Int.Cl. B04B 13/00 (2006.01) B04B 5/04 (2006.01) G01N 1/28 (2006.01) G01N 35/02 (2006.01)**

[25] EN

[54] **CENTRIFUGAL SEPARATION APPARATUS AND CENTRIFUGAL SEPARATION METHOD**

[54] **APPAREIL ET METHODE DE SEPARATION CENTRIFUGE**

[72] ITOH, TERUAKI, JP

[71] AOI SEIKI CO., LTD., JP

[22] 2022-06-01

[41] 2022-12-07

[30] JP (2021-095245) 2021-06-07

[21] **3,161,577**
[13] A1

[51] **Int.Cl. H01R 13/64 (2006.01) H01R 13/621 (2006.01) H05B 3/58 (2006.01)**

[25] EN

[54] **HEATED HOSE ELECTRICAL CONNECTORS**

[54] **CONNECTEURS ELECTRIQUES DE BOYAU CHAUFFANT**

[72] TIX, JOSEPH E., US

[72] BECKMANN, ERICH W., US

[72] SCHNEIDER, STEPHEN P., US

[72] PETERSON, NICHOLAS P., US

[72] BRUDEVOLD, MARK J., US

[71] GRACO MINNESOTA INC., US

[22] 2022-06-06

[41] 2022-12-08

[30] US (63/202,365) 2021-06-08

**Demandes canadiennes mises à la disponibilité du public
4 décembre 2022 au 10 décembre 2022**

[21] **3,161,613**
[13] A1

[51] **Int.Cl. F24T 10/13 (2018.01) F03D 9/43 (2016.01) F03D 13/20 (2016.01) E02D 5/22 (2006.01)**
[25] EN
[54] **GROUND HEAT EXCHANGER AND WIND TURBINE**
[54] **ECHANGEUR DE CHALEUR DE SOL ET EOLIENNE**
[72] HALLIWELL, JOHN MARTIN, CA
[71] HC PROPERTIES INC., CA
[22] 2022-06-06
[41] 2022-12-07
[30] CA (3,121,345) 2021-06-07
[30] US (17/533,894) 2021-11-23

[21] **3,161,619**
[13] A1

[51] **Int.Cl. E21B 7/24 (2006.01)**
[25] EN
[54] **DOWNHOLE PULSATION VALVE SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE VANNE DE PULSATIONS EN FOND DE TROU**
[72] ELFAR, TALAL, CA
[71] ELFAR, TALAL, CA
[22] 2022-06-06
[41] 2022-12-09
[30] US (17/343,507) 2021-06-09

[21] **3,161,685**
[13] A1

[51] **Int.Cl. E06B 1/52 (2006.01)**
[25] EN
[54] **ADJUSTABLE DOOR FRAME FOR A SLIDING DOOR**
[54] **CADRE DE PORTE AJUSTABLE POUR UNE PORTE COULISSANTE**
[72] GLOVER, DANIEL BRIAN, US
[72] MANNING, JENNIFER, US
[71] AADG, INC., US
[22] 2022-06-07
[41] 2022-12-07
[30] US (17/831,676) 2022-06-03
[30] US (63/197,770) 2021-06-07
[30] US (63/276,227) 2021-11-05
[30] US (63/276,230) 2021-11-05
[30] US (63/278,513) 2021-11-12
[30] US (63/278,515) 2021-11-12

[21] **3,161,695**
[13] A1

[51] **Int.Cl. G01N 29/265 (2006.01) G01S 15/89 (2006.01) G01S 7/521 (2006.01)**
[25] FR
[54] **METHOD FOR DETERMINING THE DISPLACEMENT OF AN ULTRASOUND TRANSDUCER**
[54] **PROCEDE DE DETERMINATION DU DEPLACEMENT D'UN TRADUCTEUR PAR IMAGERIE ULTRASONORE**
[72] BREDIF, PHILIPPE, FR
[72] IAKOVLEVA, EKATERINA, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[22] 2022-06-06
[41] 2022-12-09
[30] FR (2106098) 2021-06-09

[21] **3,161,745**
[13] A1

[51] **Int.Cl. E06B 1/52 (2006.01) E06B 7/16 (2006.01)**
[25] EN
[54] **ADJUSTABLE FRAME WITH A THERMAL BREAK SEAL**
[54] **CADRE AJUSTABLE AVEC JOINT DE BARRIERE THERMIQUE**
[72] GLOVER, DANIEL BRIAN, US
[72] MIDDLETON, PATRICK, US
[72] SCHEVE, MICHAEL, US
[72] FORD, WALTER, US
[71] AADG, INC., US
[22] 2022-06-07
[41] 2022-12-07
[30] US (63/276,230) 2021-11-05
[30] US (63/278,513) 2021-11-12
[30] US (17/831,659) 2022-06-03
[30] US (63/197,770) 2021-06-07
[30] US (63/276,227) 2021-11-05
[30] US (63/278,515) 2021-11-12

[21] **3,161,747**
[13] A1

[51] **Int.Cl. B65D 1/02 (2006.01) B29C 49/42 (2006.01) B65D 1/10 (2006.01) B65D 1/42 (2006.01) B65D 1/44 (2006.01)**
[25] EN
[54] **CONTAINER WITH REINFORCED NECK**
[54] **CONTENANT A COL RENFORCE**
[72] PALMER, JOEY A., US
[72] SPAGNOLI, ROBERT A., US
[72] SMARRELLI, JOSEPH A., JR., US
[71] ALTIUM PACKAGING LP, US
[22] 2022-06-07
[41] 2022-12-07
[30] US (17/833,237) 2022-06-06
[30] US (63/197,940) 2021-06-07

[21] **3,161,750**
[13] A1

[51] **Int.Cl. E06B 3/263 (2006.01) E06B 7/16 (2006.01)**
[25] EN
[54] **ADJUSTABLE FRAME WITH A THERMAL BREAK**
[54] **CADRE AJUSTABLE AVEC BARRIERE THERMIQUE**
[72] GLOVER, DANIEL BRIAN, US
[72] MIDDLETON, PATRICK, US
[71] AADG, INC., US
[22] 2022-06-07
[41] 2022-12-07
[30] US (17/831,653) 2022-06-03
[30] US (63/197,770) 2021-06-07
[30] US (63/276,227) 2021-11-05
[30] US (63/276,230) 2021-11-05
[30] US (63/278,513) 2021-11-12
[30] US (63/278,515) 2021-11-12

[21] **3,161,780**
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H01M 50/269 (2021.01) H01M 10/44 (2006.01) H03K 17/687 (2006.01)**
[25] EN
[54] **CIRCUIT HAVING BALANCED CHARGING AND CELL CONNECTION CONVERSION FUNCTIONS**
[54] **CIRCUIT COMPRENANT DES FONCTIONS EQUILIBREES DE RECHARGE ET DE CONVERSION DE CONNEXION DE CELLULE**
[72] YAN, RENQIANG, CN
[71] TECHTRONIC CORDLESS GP, US
[22] 2022-06-07
[41] 2022-12-07
[30] CN (202110629852.7) 2021-06-07

Canadian Applications Open to Public Inspection
December 4, 2022 to December 10, 2022

[21] **3,161,782**
 [13] A1

[51] **Int.Cl. A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 4/00 (2006.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**

[25] EN
 [54] **BEAN VARIETY SVGG1312**
 [54] **VARIETE DE HARICOT SVGG1312**
 [72] OPPELAAR, ARIE, US
 [71] SEMINIS VEGETABLE SEEDS, INC., US
 [22] 2022-06-07
 [41] 2022-12-08
 [30] US (17/342332) 2021-06-08

[21] **3,161,799**
 [13] A1

[51] **Int.Cl. A01D 34/73 (2006.01) A01D 34/835 (2006.01)**

[25] EN
 [54] **QUICK RELEASE BLADE ASSEMBLIES AND METHODS FOR A POWER TOOL**
 [54] **ASSEMBLAGES DE LAMES A DETACHEMENT RAPIDE ET METHODES POUR UN OUTIL ELECTRIQUE**
 [72] HOFFMAN, RONALD J., US
 [72] ECKARD, LANCE, US
 [71] TECHTRONIC CORDLESS GP, US
 [22] 2022-06-07
 [41] 2022-12-09
 [30] US (63/208,808) 2021-06-09

[21] **3,161,828**
 [13] A1

[51] **Int.Cl. E06B 3/42 (2006.01) E05D 13/00 (2006.01) E06B 1/52 (2006.01) E06B 7/16 (2006.01)**

[25] EN
 [54] **SECURITY FEATURES FOR A SLIDING DOOR SYSTEM**
 [54] **CARACTERISTIQUES DE SECURITE POUR UN SYSTEME DE PORTE COULISSANTE**
 [72] GLOVER, DANIEL BRIAN, US
 [72] MANNING, JENNIFER, US
 [71] AADG, INC., US
 [22] 2022-06-07
 [41] 2022-12-07
 [30] US (63/197,770) 2021-06-07
 [30] US (17/831,666) 2022-06-03
 [30] US (63/276,227) 2021-11-05
 [30] US (63/276,230) 2021-11-05
 [30] US (63/278,513) 2021-11-12
 [30] US (63/278,515) 2021-11-12

[21] **3,161,837**
 [13] A1

[51] **Int.Cl. H01M 8/2485 (2016.01) H01M 8/0662 (2016.01) H01M 8/2475 (2016.01)**

[25] EN
 [54] **VENTING OF SEALED FUEL CELL ENCLOSURE**
 [54] **VENTILATION D'UNE ENCEINTE SCHELLEE A PILES A COMBUSTIBLE**
 [72] EPP, BRYN, CA
 [72] HILL, ANDREW, CA
 [72] ZAAG, NADER, CA
 [72] PUBRAT, DAVID, CA
 [72] SORBERA, SONIA, CA
 [72] KRISHNATHAS, MYEN, CA
 [72] BENCAK, ROBERT, CA
 [71] HYDROGENICS CORPORATION, CA
 [22] 2022-06-07
 [41] 2022-12-08
 [30] US (63/208,334) 2021-06-08

[21] **3,161,879**
 [13] A1

[51] **Int.Cl. E21B 33/129 (2006.01) E21B 23/06 (2006.01)**

[25] EN
 [54] **STORM PACKER ANCHOR AND SETTING TOOL**
 [54] **ANCORAGE DE PACKER DE TEMPETE ET OUTIL DE POSE**
 [72] ARABIE, BLAKE, US
 [72] TAYLOR, ROBERT, US
 [72] VERRET, SCOTTY, US
 [71] FRANK'S INTERNATIONAL, LLC, US
 [22] 2022-06-08
 [41] 2022-12-10
 [30] US (17/344,190) 2021-06-10

[21] **3,161,902**
 [13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/12 (2006.01)**

[25] EN
 [54] **METHODS AND SYSTEMS FOR PRECISION DOSING OF FLUID SYSTEMS**
 [54] **METHODES ET SYSTEMES DE DOSAGE PRECIS POUR DES CIRCUITS DE FLUIDE**
 [72] HANEY, VIRGIL, US
 [72] MONTES, CHRISTIAN, US
 [71] DETECHTION USA INC., US
 [22] 2022-06-08
 [41] 2022-12-10
 [30] US (63/209,262) 2021-06-10

[21] **3,161,909**
 [13] A1

[51] **Int.Cl. F25B 41/00 (2021.01) F24F 1/0003 (2019.01) F25B 5/02 (2006.01) F25B 29/00 (2006.01)**

[25] EN
 [54] **COUNTER-CURRENT FLOW IN BOTH AC AND HP MODES FOR PART LOAD OPTIMIZATION**
 [54] **FLUX DE CONTRECOURANT DANS LES MODES CLIMATISEUR ET HORSEPOWER POUR L'OPTIMISATION DE CHARGE PARTIELLE**
 [72] JOVET, BASTIEN, FR
 [72] CHAPUIS, ERIC, FR
 [71] LGL FRANCE S.A.S., FR
 [22] 2022-06-08
 [41] 2022-12-09
 [30] US (17/342,657) 2021-06-09

[21] **3,161,910**
 [13] A1

[51] **Int.Cl. B65G 67/24 (2006.01) B65G 65/42 (2006.01)**

[25] EN
 [54] **DISPOSITIF DE DECHARGEMENT D'UN VEHICULE TRANSPORTANT UN MATERIAU EN VRAC, ENSEMBLE ET PROCEDE ASSOCIES**
 [54] **UNLOADING DEVICE FOR VEHICLE CARRYING BULK MATERIAL: ASSOCIATED ASSEMBLY AND METHOD**
 [72] BRUNONE, RENE, FR
 [71] BRUNONE, RENE, FR
 [22] 2022-06-08
 [41] 2022-12-09
 [30] FR (21 06077) 2021-06-09

**Demandes canadiennes mises à la disponibilité du public
4 décembre 2022 au 10 décembre 2022**

[21] **3,161,915**
[13] A1

[51] **Int.Cl. B60D 1/62 (2006.01) B60D 1/36 (2006.01) B60R 11/04 (2006.01)**

[25] EN

[54] **METHOD FOR MOVING A VEHICLE TO A COMPONENT OF AN OBJECT AT A DISTANCE THEREFROM (PRE-POSITIONING POINT)**

[54] **METHODE POUR DEPLACER UN VEHICULE VERS UN COMPOSANT D'UN OBJET A UNE DISTANCE DE CELUI-CI (POINT DE POSITIONNEMENT PREALABLE)**

[72] MULLER, MARK, DE

[71] JOST-WERKE DEUTSCHLAND GMBH, DE

[22] 2022-06-08

[41] 2022-12-10

[30] DE (10 2021 002 955.0) 2021-06-10

[21] **3,161,920**
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) B60W 60/00 (2020.01) B60D 1/36 (2006.01) B60R 11/04 (2006.01)**

[25] EN

[54] **METHOD FOR MOVING A VEHICLE TO A COMPONENT OF AN OBJECT AT A DISTANCE THEREFROM (COORDINATE TRANSFORMATION)**

[54] **METHODE POUR DEPLACER UN VEHICULE VERS UN COMPOSANT D'UN OBJET A UNE DISTANCE DE CELUI-CI (TRANSFORMATION DE COORDONNEE)**

[72] MULLER, MARK, DE

[71] JOST-WERKE DEUTSCHLAND GMBH, DE

[22] 2022-06-08

[41] 2022-12-10

[30] DE (10 2021 002 956.9) 2021-06-10

[21] **3,161,926**
[13] A1

[51] **Int.Cl. H02B 1/03 (2006.01) G01R 35/04 (2006.01)**

[25] EN

[54] **MULTIPLE WATTHOUR METER ASSEMBLY**

[54] **ASSEMBLAGE A WATTHEUREMETRES MULTIPLES**

[72] OLSON, JUSTIN A., US

[72] WANG, DONGHUI DONNA, US

[72] KIESSLING, ROBERT F., US

[71] E.J. BROOKS COMPANY D.B.A. BROOKS UTILITY PRODUCTS GROUP, US

[22] 2022-06-08

[41] 2022-12-09

[30] US (17/342913) 2021-06-09

[21] **3,161,929**
[13] A1

[51] **Int.Cl. H04N 21/238 (2011.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR DETERMINING BITRATE SWITCH POINTS**

[54] **METHODE ET APPAREIL POUR DETERMINER LES POINTS DE COMMUTATION DE DEBIT BINAIRE**

[72] BURKE, MICHAEL, US

[72] SMITH, CALEB, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2022-06-08

[41] 2022-12-08

[30] US (17/341,698) 2021-06-08

[21] **3,161,985**
[13] A1

[25] EN

[54] **MARKETING-USER ACQUIRING METHOD AND SYSTEM THEREOF**

[54] **METHODE D'ACQUISITION DE DONNEES MARKETING UTILISATEUR ET SYSTEME CONNEXE**

[72] CAO, WENBIN, CN

[71] 10353744 CANADA LTD., CA

[22] 2022-06-08

[41] 2022-12-09

[30] CN (202110641191.X) 2021-06-09

[21] **3,161,996**
[13] A1

[51] **Int.Cl. H04W 92/08 (2009.01) H04W 8/18 (2009.01) H04W 72/02 (2009.01) H04L 65/1066 (2022.01)**

[25] EN

[54] **MODIFYING USER INTERFACES BASED ON COMMUNICATION PARAMETERS**

[54] **MODIFICATION D'INTERFACES UTILISATEUR EN FONCTION DE PARAMETRES DE COMMUNICATION**

[72] SMITH-ROSE, ASHER, US

[72] MAIMAN, TYLER, US

[72] CHENG, LIN NI LISA, US

[72] SHAH, SALIK, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2022-06-07

[41] 2022-12-07

[30] US (17/340,266) 2021-06-07

[30] US (17/340,291) 2021-06-07

[30] US (17/340,320) 2021-06-07

[21] **3,162,056**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G01N 37/00 (2006.01)**

[25] EN

[54] **OBJECT AUTHENTICATION USING DIGITAL BLUEPRINTS AND PHYSICAL FINGERPRINTS**

[54] **AUTHENTICIFICATION D'OBJET AU MOYEN DE BLEUS NUMERIQUES ET D'EMPREINTES PHYSIQUES**

[72] VOLOSHYNOVSKIY, SVYATOSLAV, CH

[72] TARAN, OLGA, CH

[72] TUTT, JOAKIM, CH

[72] HOLOTYAK, TARAS, CH

[71] UNIVERSITY DE GENEVE, CH

[22] 2022-06-08

[41] 2022-12-08

[30] CH (00676/21) 2021-06-08

[30] EP (21182951.0) 2021-06-30

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[21] **3,162,059**
[13] A1

[51] **Int.Cl. G10L 15/20 (2006.01) G06F 16/60 (2019.01) H04R 1/00 (2006.01)**
[25] EN
[54] **PROCESSING VOICE COMMANDS**
[54] **TRAITEMENT DE COMMANDES VOCALES**
[72] SAADATPANAH, PARSA, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2022-06-08
[41] 2022-12-08
[30] US (17/341,927) 2021-06-08

[21] **3,162,110**
[13] A1

[51] **Int.Cl. G06Q 20/22 (2012.01) G06Q 20/32 (2012.01)**
[25] EN
[54] **PROVIDING A CUSTOMER WITH A NUMBER OF PAYMENT SCENARIOS**
[54] **FOURNITURE A UN CLIENT D'UN NOMBRE DE SCENARIOS DE PAIEMENT**
[72] ANDERSON, CHRIS, US
[71] COMENITY LLC, US
[22] 2022-06-08
[41] 2022-12-10
[30] US (63/209347) 2021-06-10
[30] US (17/804,087) 2022-05-25

[21] **3,162,137**
[13] A1

[51] **Int.Cl. H04L 12/18 (2006.01) H04N 7/15 (2006.01)**
[25] EN
[54] **ELECTRONIC COMMUNICATION SYSTEM AND METHOD USING BIOMETRIC EVENT INFORMATION**
[54] **SYSTEME DE COMMUNICATION ELECTRONIQUE ET METHODE UTILISANT DES RENSEIGNEMENTS D-EVENEMENT BIOMETRIQUE**
[72] TANISHA, TANTRI, IN
[72] NAIDOO, LOGENDRA, CA
[72] SUSMITHA, HANUMANTHU, IN
[71] MITEL NETWORKS CORPORATION, CA
[22] 2022-06-09
[41] 2022-12-10
[30] US (17/344671) 2021-06-10

[21] **3,162,146**
[13] A1

[51] **Int.Cl. G06F 16/174 (2019.01) G06F 16/16 (2019.01)**
[25] EN
[54] **DUPLICATE FILE MANAGEMENT FOR CONTENT MANAGEMENT SYSTEMS AND FOR MIGRATION TO SUCH SYSTEMS**
[54] **GESTION DES DOUBLES DE FICHIERS POUR LES SYSTEMES DE GESTION DE CONTENU ET LE TRANSFERT A CES SYSTEMES**
[72] KRAATZ, MARK, CA
[72] VANLEEUEWEN, PETER, CA
[72] MERHI, KHALID, CA
[72] BAILEY, DUAN, CA
[72] GRADY, TRACY, CA
[72] LURZ, MELANIE, CA
[72] LANDRY, CHRIS, CA
[72] TREULIEB, CRAIG, CA
[72] SLANEY, TYLER, CA
[71] SHINYDOCS CORPORATION, CA
[22] 2022-06-08
[41] 2022-12-08
[30] US (63/208,257) 2021-06-08

[21] **3,162,198**
[13] A1

[51] **Int.Cl. B62K 21/10 (2006.01)**
[25] EN
[54] **APPARATUS FOR PROVIDING A RESTORING MOMENT FOR A TWO-WHEELER STEERING MECHANISM**
[54] **APPAREIL POUR FOURNIR UN MOMENT REDRESSEUR POUR UN MECANISME DE GOUVERNE A DEUX ROUES**
[72] KLIEBER, JOCHEN, DE
[71] KLIEBER, JOCHEN, DE
[22] 2022-06-09
[41] 2022-12-10
[30] DE (10 2021 115 055.8) 2021-06-10
[30] DE (10 2021 005 463.6) 2021-06-10
[30] DE (10 2021 119 189.0) 2021-07-23

[21] **3,162,292**
[13] A1

[51] **Int.Cl. F28F 27/00 (2006.01) F28C 1/14 (2006.01) F28F 25/00 (2006.01) F28G 7/00 (2006.01)**
[25] EN
[54] **AUTOMATIC CLEANING OF ADIABATIC CONDENSER COOLING PADS**
[54] **NETTOYAGE AUTOMATIQUE DE TAMPONS DE REFROIDISSEMENT DE CONDENSATEUR ADIABATIQUE**
[72] KUPPUSAMY, KARTHICK, US
[71] HEATCRAFT REFRIGERATION PRODUCTS LLC, US
[22] 2022-06-09
[41] 2022-12-10
[30] US (17/344,335) 2021-06-10

[21] **3,162,381**
[13] A1

[51] **Int.Cl. G01M 3/28 (2006.01) B64D 37/30 (2006.01) B64D 37/32 (2006.01)**
[25] EN
[54] **LEAK DETECTION FOR PRESSURIZED FLUID SYSTEMS**
[54] **DETECTION DE FUITES POUR DES SYSTEMES DE FLUIDES SOUS PRESSION**
[72] SHENOUDA, ANTWAN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-06-09
[41] 2022-12-09
[30] US (17/343,698) 2021-06-09

[21] **3,162,443**
[13] A1

[51] **Int.Cl. G01M 3/26 (2006.01) F02C 9/28 (2006.01)**
[25] EN
[54] **LEAK DETECTION FOR PRESSURIZED FLUID SYSTEMS FIELD**
[54] **DETECTION DE FUITES POUR LE DOMAINE DES SYSTEMES DE FLUIDES SOUS PRESSION**
[72] SHENOUDA, ANTWAN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-06-09
[41] 2022-12-09
[30] US (17/343,705) 2021-06-09

Demandes canadiennes mises à la disponibilité du public
4 décembre 2022 au 10 décembre 2022

[21] **3,162,483**
[13] A1

[51] **Int.Cl. B32B 29/08 (2006.01) B32B 7/14 (2006.01) B32B 33/00 (2006.01)**

[25] EN

[54] **WAX ALTERNATIVE WATER AND MOISTURE RESISTANT CORRUGATED BOARD**

[54] **CARTON ONDULE COMPRENANT UN MATERIAU EN REMPLACEMENT DE LA CIRE RESISTANT A L~EAU ET A L'HUMIDITE**

[72] WIEMANN, DAVID J., US
[72] HASCHKE, PAUL C., US
[72] BENSON, JOHN D., US
[72] MCDONNELL, WILLIAM T., US
[71] WESTROCK SHARED SERVICES, LLC, US

[22] 2022-06-10
[41] 2022-12-10
[30] US (63/209,213) 2021-06-10

[21] **3,162,506**
[13] A1

[51] **Int.Cl. F03G 7/00 (2006.01) F17D 1/02 (2006.01) H02K 7/18 (2006.01) G06Q 20/06 (2012.01)**

[25] EN

[54] **OFF-GRID POWER GENERATION AND CONVERSION METHODS AND RELATED SYSTEMS**

[54] **METHODES DE GENERATION ET DE CONVERSION D~ENERGIE HORS RESEAU ET SYSTEMES CONNEXES**

[72] BATTERSHELL, JOHN ROBERT, US
[72] JOHNSON, TYE ARON, US
[72] MOODY, JUSTIN KLAY, US
[71] EVOLVE GAS AND POWER LLC, US

[22] 2022-06-10
[41] 2022-12-10
[30] US (63/209,166) 2021-06-10

[21] **3,172,127**
[13] A1

[51] **Int.Cl. F01D 25/20 (2006.01) F02C 7/06 (2006.01) F02C 7/32 (2006.01)**

[25] EN

[54] **LUBRICANT PUMP SYSTEM AND METHOD FOR AIRCRAFT ENGINE**

[54] **SYSTEME DE POMPE A LUBRIFIANT ET METHODE POUR UN MOTEUR D'AERONEF**

[72] TURCOTTE, HERVE, CA
[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2022-06-06
[41] 2022-12-10
[30] US (17/343,838) 2021-06-10

[21] **3,173,872**
[13] A1

[51] **Int.Cl. B64C 13/16 (2006.01) B64C 19/00 (2006.01) B64C 27/00 (2006.01)**

[25] EN

[54] **A PASSENGER DISCOMFORT-AWARE FLIGHT CONTROL SYSTEM**

[54] **SYSTEME DE COMMANDE DE VOL SENSIBLE A L~INCONFORT DES PASSAGERS**

[72] DIETERICH, OLIVER, DE
[72] FISCHER, CHRISTIAN, DE
[72] LANTZSCH, ROBIN, DE
[72] OZKURT, SULEYMAN, DE
[72] FICHTER, WALTER, DE
[72] RATH, TOBIAS, DE
[71] AIRBUS HELICOPTERS DEUTSCHLAND GMBH, DE

[22] 2022-09-14
[41] 2022-12-06
[30] EP (21400022.6) 2021-10-21

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,091,457**
[13] A1

[51] **Int.Cl. C12M 1/12 (2006.01) C08L 33/20 (2006.01) C12N 5/00 (2006.01) D01D 5/00 (2006.01)**

[25] FR

[54] **BIOCOMPATIBLE THREE-DIMENSIONAL NETWORK AND USE THEREOF AS CELL SUPPORT**

[54] **RESEAU TRIDIMENSIONNEL BIOCOMPATIBLE ET SON UTILISATION EN TANT QUE SUPPORT DE CELLULES**

[72] CORNU, DAVID, FR

[72] BAKALARA, NORBERT, FR

[72] MARHUENDA, EMILIE, FR

[72] SALEH, ALI, FR

[71] UNIVERSITE DE MONTPELLIER, FR

[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] ECOLE NATIONALE SUPERIEURE DE CHIMIE DE MONTPELLIER, FR

[85] 2020-08-13

[86] 2019-02-15 (PCT/EP2019/053883)

[87] (WO2019/158724)

[30] FR (1851324) 2018-02-16

[21] **3,165,187**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 33/243 (2019.01) A61K 31/136 (2006.01) A61K 31/337 (2006.01) A61K 31/473 (2006.01) A61K 31/519 (2006.01) A61K 31/555 (2006.01) A61K 31/704 (2006.01) A61K 31/7068 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS FOR TREATMENT OF CANCER WITH AN ANTI-TIGIT ANTAGONIST ANTIBODY**

[54] **METHODES DE TRAITEMENT DU CANCER AU MOYEN D'UN ANTICORPS ANTAGONISTE ANTI-TIGIT**

[72] LAI, CATHERINE, US

[72] LAU, JANET, US

[72] LEE, ANTHONY JONGHA, US

[72] LI, SHI, US

[72] LIN-LIU, YVONNE GAIL, US

[72] MATHENY, CHRISTINA JEANNE, US

[72] MENDUS, DIANA, US

[72] MENG, RAYMOND D., US

[72] NGUYEN DUC, ANH, CH

[72] PATEL, JILPA BHUPENDRA, US

[72] PHAM, THINH QUANG, US

[72] ROONEY, ISABELLE ANNE, US

[72] STEVENS, HEATHER BLYTHE, US

[72] TROUTMAN, SARAH MARIE, US

[72] WANG, LIJIA, US

[72] WANG, YULEI, US

[72] WILLIAMS, PATRICK GEORGES ROBERT, US

[72] WU, BENJAMIN, US

[72] YAN, YIBING, US

[72] ZHANG, AIJING, US

[72] ZHANG, XIAOSONG, US

[72] BALLINGER, MARCUS DALE, US

[72] BARAK, HILA, US

[72] BENNETT, ELIZABETH ALEXANDRA, US

[72] CASTRO, MARCELA LUCIA, US

[72] CHA, EDWARD NAMSERK, US

[72] CHAN, HUI MIN PHYLLIS, US

[72] CHUI, STEPHEN, US

[72] COTTER, CHRISTOPHER ROLAND, US

[72] DEGAONKAR, VIRAJ VINAY, US

[72] GITLITZ, BARBARA JENNIFER, US

[72] HOANG, TIEN, US

[72] KOMATSUBARA, KIMBERLY MAYUMI, US

[71] GENENTECH, INC., US

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

[85] 2022-07-18

[86] 2021-01-26 (PCT/US2021/015143)

[87] (WO2021/154761)

[30] US (62/966,448) 2020-01-27

[30] US (63/127,109) 2020-12-17

[30] US (62/994,272) 2020-03-24

[30] US (PCT/US2020/049415) 2020-09-04

[30] US (63/074,807) 2020-09-04

[30] US (62/985,822) 2020-03-05

[30] US (PCT/US2020/024526) 2020-03-24

[30] US (63/085,890) 2020-09-30

[30] US (63/074,827) 2020-09-04

[30] US (63/059,054) 2020-07-30

[30] US (63/105,198) 2020-10-23

[30] US (63/114,517) 2020-11-16

[30] US (63/059,960) 2020-07-31

[30] US (63/124,693) 2020-12-11

[21] **3,165,309**
[13] A1

[51] **Int.Cl. A61K 31/45 (2006.01) C07D 401/04 (2006.01)**

[25] EN

[54] **COMPOUNDS FOR TARGETED DEGRADATION OF BRD9**

[54] **COMPOSES POUR LA DEGRADATION CIBLEE DE LA BRD9**

[72] NASVESCHUK, CHRISTOPHER G., US

[72] ZEID, RHAMY, US

[72] YIN, NING, US

[72] JACKSON, KATRINA L., US

[72] VEITS, GESINE KERSTIN, US

[72] MOUSTAKIM, MOSES, US

[72] YAP, JEREMY L., US

[71] C4 THERAPEUTICS, INC., US

[85] 2022-07-19

[86] 2021-03-05 (PCT/US2021/021240)

[87] (WO2021/178920)

[30] US (62/985,774) 2020-03-05

[30] US (63/061,659) 2020-08-05

Demandes PCT entrant en phase nationale

[21] **3,167,753**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) C07D 403/14 (2006.01) C07D 407/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01)**

[25] EN
[54] **HETEROCYCLIC PAD4 INHIBITORS**

[54] **INHIBITEURS DE PAD4 HETEROCYCLIQUES**

[72] SELVAKUMAR, KUMARAVEL, IN
[72] PAIDI, VENKATRAM REDDY, IN
[72] THANGATHIRUPATHY, SRINIVASAN, IN
[72] KUMAR CM, VIJAYA, IN
[72] ALAJANGI, TIRUPATHI RAO, IN
[72] SURA, MALLIKARJUN REDDY, IN
[72] MAHADEVU, KRISHNA, IN
[72] SISTLA, RAMESH KUMAR, IN
[72] AGARWAL, PIYUSH, IN
[72] SUBBIAH KARUPPIAH, ARUL MOZHI, IN
[72] NAIR, JALATHI S., IN
[72] MORAMPUDI, OOHA, IN
[72] PANDA, MANORANJAN, IN
[72] TINO, JOSEPH A., US
[72] CHERNEY, ROBERT J., US
[72] DUNCIA, JOHN V., US
[72] GARDNER, DANIEL S., US
[72] DHAR, T. G. MURALI, US
[72] ROSS, AUDREY GRAHAM, US
[72] GORMISKY, PAUL E., US
[72] ZHU, XIAO, US
[72] SELETSKY, BORIS M., US
[72] ANTROPOW, ALYSSA H., US
[72] NIU, DEQIANG, US
[72] ZHU, ZHENG DONG, US
[72] MIAO, GUOBIN, US
[72] CUERVO, JULIO HERNAN, US
[71] BRISTOL-MYERS SQUIBB COMPANY, US
[85] 2022-08-11
[86] 2021-02-11 (PCT/US2021/017554)
[87] (WO2021/163254)
[30] IN (202041006146) 2020-02-12

[21] **3,171,363**
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) A61K 47/68 (2017.01) A61P 31/04 (2006.01) A61P 37/02 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**

[25] EN
[54] **POLYPEPTIDES, PROTEIN COMPLEXES AND METHOD FOR MAKING SAME**

[54] **POLYPEPTIDES, COMPLEXES PROTEIQUES ET PROCEDE DE PRODUCTION ASSOCIES**

[72] WARGACHUCK, RICHARD, CA
[72] GUPTA, ASHWANI, CA
[72] DA CRUZ, LUIS, CA
[72] YOUNG, DAVID S., CA
[72] MORIN, NICOLAS, CA
[72] YAO, SHUGANG, CA
[71] KISOJI BIOTECHNOLOGY INC., CA
[85] 2022-09-12
[86] 2020-12-18 (PCT/CA2020/051753)
[87] (3171363)
[30] US (62/951,701) 2019-12-20

[21] **3,172,560**
[13] A1

[51] **Int.Cl. B65D 90/12 (2006.01) F16G 11/12 (2006.01) F16M 13/02 (2006.01)**

[25] EN
[54] **AN ANCHORING ASSEMBLY INCLUDING A TIGHTENING MECHANISM FOR HOLDING AN UNDERGROUND STORAGE TANK**

[54] **ASSEMBLAGE D'ANCRAGE COMPRENANT UN MECANISME DE TENSIONNEMENT POUR RETENIR UN RESERVOIR DE STOCKAGE SOUTERRAIN**

[72] DUFRESNE, ROBERT, CA
[72] BALIT-ACHIM, SIMON, CA
[72] ARABZADEH, HAMID, CA
[72] DUFRESNE, XAVIER, CA
[71] PULTRUSION TECHNIQUE INC., CA
[85] 2022-09-21
[86] 2022-06-03 (PCT/CA2022/050895)
[87] (3172560)
[30] US (63/196,899) 2021-06-04

[21] **3,172,873**
[13] A1

[51] **Int.Cl. A22C 25/08 (2006.01) A22C 25/00 (2006.01) A22C 25/02 (2006.01) A22C 29/00 (2006.01) B65G 53/48 (2006.01) F04B 19/12 (2006.01) F25D 25/00 (2006.01) A23L 5/00 (2016.01)**

[25] EN
[54] **MULTI-PIPING SPIRAL-PUMP FOR TREATING FOOD ITEMS**

[54] **POMPE SPIRALEE A TUYAUX MULTIPLES POUR LE TRAITEMENT DE PRODUITS ALIMENTAIRES**

[72] ARNASON, INGOLFUR, IS
[71] LAMBHUSASUND EHF., IS
[85] 2022-09-22
[86] 2022-06-08 (PCT/IS2022/050002)
[87] (3172873)
[30] IS (IS 9148) 2021-06-08

[21] **3,173,017**
[13] A1

[51] **Int.Cl. C04B 2/10 (2006.01) B01D 45/00 (2006.01) B01D 46/00 (2022.01) B01J 8/24 (2006.01) C01F 5/02 (2006.01) C01F 5/06 (2006.01) C04B 2/12 (2006.01)**

[25] EN
[54] **PRODUCTION OF CALCINED MATERIAL WITH SEPARATE CALCINATION OF EXHAUST DUST**

[54]

[72] BOHNET, HARRY, CA
[72] BONESKY, NEIL, CA
[72] JAFARI, MARYAM, CA
[72] SHI, GANG, CA
[72] SPACHTHOLZ, FRANZ XAVER, CA
[71] REFRATECHNIK HOLDING GMBH, DE
[85] 2022-09-22
[86] 2022-06-08 (PCT/CA2022/050913)
[87] (3173017)
[30] DE (10 2021 205 828.0) 2021-06-09

PCT Applications Entering the National Phase

[21] **3,173,061**
[13] A1

[51] **Int.Cl. H04B 5/00 (2006.01) H04R 1/00 (2006.01) H04W 88/06 (2009.01) H04W 4/80 (2018.01)**

[25] EN
[54] **VOICE INTERACTIVE SYSTEM**
[54] **SYSTEME INTERACTIF VOCAL**

[72] BARRETT, DAVID M., US
[72] CHEN, ROBERT, US
[71] EXPENSIFY, INC., US
[85] 2022-09-23
[86] 2021-03-24 (PCT/US2021/023837)
[87] (WO2021/195181)
[30] US (63/000,372) 2020-03-26
[30] US (17/208,154) 2021-03-22

[21] **3,173,071**
[13] A1

[51] **Int.Cl. G01S 13/88 (2006.01) G01S 13/89 (2006.01)**

[25] FR
[54] **SECURITY BODY SCANNER EMPLOYING RADIANT ENERGY AND ASSOCIATED DETECTING METHOD**

[54] **SCANNER CORPOREL DE SECURITE A ENERGIE RAYONNANTE ET PROCEDE DE DETECTION ASSOCIE**

[72] MANNESCHI, ALESSANDRO, IT
[71] MANNESCHI, ALESSANDRO, IT
[85] 2022-09-23
[86] 2021-04-14 (PCT/EP2021/059675)
[87] (WO2021/209505)
[30] FR (FR2003724) 2020-04-14

[21] **3,173,073**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 31/404 (2006.01) A61K 31/4439 (2006.01) A61K 36/00 (2006.01) A61P 25/28 (2006.01) C07C 39/215 (2006.01) C07D 311/28 (2006.01) C07D 401/06 (2006.01) C07D 403/06 (2006.01) C07K 16/22 (2006.01) C07K 16/28 (2006.01) G01N 33/48 (2006.01)**

[25] EN
[54] **METHODS FOR TREATING ALZHEIMER'S DISEASE**

[54] **METHODES DE TRAITEMENT DE LA MALADIE D'ALZHEIMER**

[72] JEFFERIES, WILFRED, CA
[72] SINGH, CHAAHAT, CA
[71] JEFFERIES, WILFRED, CA
[71] SINGH, CHAAHAT, CA
[85] 2022-09-23
[86] 2021-03-29 (PCT/CA2021/050405)
[87] (WO2021/195750)
[30] US (63/002,449) 2020-03-31

[21] **3,173,074**
[13] A1

[51] **Int.Cl. C11D 1/12 (2006.01) C11D 1/65 (2006.01) C11D 1/655 (2006.01) C11D 1/831 (2006.01)**

[25] EN
[54] **LAUNDRY DETERGENT COMPOSITION**

[54] **COMPOSITION DETERGENTE POUR LESSIVE**

[72] PECHERA, LEILANI, US
[72] ADAMY, STEVEN, US
[72] GUPTA, ARCHANA, US
[71] CHURCH & DWIGHT CO., INC., US
[85] 2022-09-23
[86] 2021-04-06 (PCT/US2021/025862)
[87] (WO2021/207117)
[30] US (63/006,438) 2020-04-07

[21] **3,173,075**
[13] A1

[51] **Int.Cl. C11D 1/12 (2006.01) C11D 1/65 (2006.01) C11D 1/831 (2006.01)**

[25] EN
[54] **LAUNDRY DETERGENT COMPOSITION**

[54] **COMPOSITION DETERGENTE POUR LESSIVE**

[72] PECHERA, LEILANI, US
[72] ADAMY, STEVEN, US
[72] GUPTA, ARCHANA, US
[71] CHURCH & DWIGHT CO., INC., US
[85] 2022-09-23
[86] 2021-04-06 (PCT/US2021/025864)
[87] (WO2021/207119)
[30] US (63/006,441) 2020-04-07

[21] **3,173,077**
[13] A1

[51] **Int.Cl. B26D 1/29 (2006.01) A23N 12/02 (2006.01) B26D 7/02 (2006.01)**

[25] EN
[54] **APPARATUS AND METHOD FOR CUTTING PRODUCTS OF GENERALLY ELONGATED SHAPE**

[54] **APPAREIL ET PROCEDE POUR COUPER DES PRODUITS DE FORME GENERALEMENT ALLONGEE**

[72] CARIDIS, ANDREW ANTHONY, US
[72] RAMIREZ RESENDIZ, DAVID, MX
[72] GONZALEZ GRANADOS, SERGIO, MX
[71] HEAT AND CONTROL, INC., US
[85] 2022-09-23
[86] 2022-03-05 (PCT/IB2022/051959)
[87] (WO2022/185285)
[30] MX (MX/A/2021/002651) 2021-03-05

Demandes PCT entrant en phase nationale

[21] **3,173,078**
[13] A1

[51] **Int.Cl. G06F 11/30 (2006.01) G06F 9/44 (2018.01) G06F 11/36 (2006.01)**

[25] EN

[54] **GENERATION OF MICROSERVICES FROM A MONOLITHIC APPLICATION BASED ON RUNTIME TRACES**

[54] **GENERATION DE MICROSERVICES A PARTIR D'UNE APPLICATION MONOLITHIQUE SUR LA BASE DE TRACES D'EXECUTION**

[72] XIAO, JIN, US

[72] KALIA, ANUP, US

[72] LIN, CHIN, US

[72] BATTA, RAGHAV, US

[72] SINHA, SAURABH, US

[72] ROFRANO, JOHN, US

[72] VUKOVIC, MAJA, US

[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

[85] 2022-09-23

[86] 2021-03-24 (PCT/IB2021/052424)

[87] (WO2021/214569)

[30] US (16/855,565) 2020-04-22

[21] **3,173,081**
[13] A1

[51] **Int.Cl. G06N 3/10 (2006.01) G06F 8/41 (2018.01) G06N 10/00 (2022.01) G06F 9/44 (2018.01)**

[25] EN

[54] **EFFICIENT QUANTUM ADAPTIVE EXECUTION METHOD FOR QUANTUM CIRCUITS**

[54] **PROCEDE EFFICACE D'EXECUTION QUANTIQUE ADAPTATIVE POUR CIRCUITS QUANTIQUES**

[72] GAMBETTA, JAY, US

[72] FARO SERTAGE, ISMAEL, US

[72] MARTIN FERNANDEZ, FRANCISCO, US

[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

[85] 2022-09-23

[86] 2021-04-19 (PCT/EP2021/060018)

[87] (WO2021/219408)

[30] US (16/860,644) 2020-04-28

[21] **3,173,082**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24B 15/42 (2006.01) A61K 31/465 (2006.01)**

[25] EN

[54] **SOLID ORAL NICOTINE FORMULATION**

[54] **FORMULATION DE NICOTINE ORALE SOLIDE**

[72] NIELSEN, KENT ALBIN, DK

[72] POULSEN, JESSIE, DK

[71] FERTIN PHARMA A/S, DK

[85] 2022-09-23

[86] 2021-11-16 (PCT/DK2021/050335)

[87] (WO2022/100806)

[30] US (17/098,550) 2020-11-16

[21] **3,173,084**
[13] A1

[51] **Int.Cl. G06Q 20/36 (2012.01) G06Q 20/38 (2012.01) G06Q 20/40 (2012.01) H04L 9/00 (2022.01)**

[25] EN

[54] **METHOD, APPARATUS, AND COMPUTER-READABLE MEDIUM FOR SECURED MULTI-LATERAL DATA EXCHANGE OVER A COMPUTER NETWORK**

[54] **PROCEDE, APPAREIL ET SUPPORT LISIBLE PAR ORDINATEUR POUR UN ECHANGE DE DONNEES MULTILATERAL SECURISE SUR UN RESEAU INFORMATIQUE**

[72] DONEY, GEORGE, US

[72] YERMAKOV, IHOR, AE

[72] RENSINK, MANUEL, AE

[71] SECURENCY, INC., US

[85] 2022-09-23

[86] 2021-03-24 (PCT/US2021/023937)

[87] (WO2021/195249)

[30] US (62/993,882) 2020-03-24

[21] **3,173,087**
[13] A1

[51] **Int.Cl. H01M 8/0247 (2016.01) H01M 8/0297 (2016.01) H01M 8/2404 (2016.01)**

[25] EN

[54] **MANUFACTURING ARRANGEMENT AND METHOD FOR A FUEL CELL STACK**

[54] **AGENCEMENT ET PROCEDE DE FABRICATION POUR UN EMPILEMENT DE PILES A COMBUSTIBLE**

[72] ARELL, LARS GUSTAF, SE

[72] FLINK, JOHAN, SE

[72] LYDHIG, THOMAS, SE

[71] POWERCELL SWEDEN AB, SE

[85] 2022-09-23

[86] 2021-04-06 (PCT/SE2021/050307)

[87] (WO2021/206615)

[30] SE (2050394-2) 2020-04-07

[21] **3,173,088**
[13] A1

[51] **Int.Cl. G06F 3/06 (2006.01) G06F 13/20 (2006.01)**

[25] EN

[54] **UTILIZING COHERENTLY ATTACHED INTERFACES IN A NETWORK STACK FRAMEWORK**

[54] **UTILISATION D'INTERFACES RELIEES DE MANIERE COHERENTE DANS UNE STRUCTURE DE PILE DE RESEAUX**

[72] SYRIVELIS, DIMITRIOS, GB

[72] REALE, ANDREA, GB

[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

[85] 2022-09-23

[86] 2021-04-30 (PCT/IB2021/053622)

[87] (WO2021/224739)

[30] US (15/929,518) 2020-05-06

PCT Applications Entering the National Phase

[21] **3,173,089**
[13] A1

[51] **Int.Cl. G06Q 20/02 (2012.01) G06Q 20/14 (2012.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CUSTOMER IDENTITY PROTECTION FROM SERVICE OR PRODUCT PROVIDERS**
[54] **SYSTEMES ET PROCEDES DE PROTECTION D'IDENTITE DE CLIENT CONTRE DES FOURNISSEURS DE SERVICES OU DE PRODUITS**
[72] DAO, TUAN, US
[71] JPMORGAN CHASE BANK, N.A., US
[85] 2022-09-23
[86] 2021-03-22 (PCT/US2021/023408)
[87] (WO2021/194928)
[30] US (62/994,189) 2020-03-24
[30] US (17/197,823) 2021-03-10

[21] **3,173,092**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] HUGHES, STEVE, GB
[72] STANIFORTH, MARTYN, GB
[72] NELSON, DAVID ALAN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-07-09 (PCT/GB2021/051772)
[87] (WO2022/018403)
[30] GB (2011514.3) 2020-07-24

[21] **3,173,093**
[13] A1

[51] **Int.Cl. G06F 16/27 (2019.01)**
[25] EN
[54] **SECURE DATA REPLICATION IN DISTRIBUTED DATA STORAGE ENVIRONMENTS**
[54] **REPLICATION DE DONNEES SECURISEE DANS DES ENVIRONNEMENTS DE STOCKAGE DE DONNEES DISTRIBUES**
[72] SOFIA, ANTHONY THOMAS, US
[72] KATONICA, JASON G., US
[72] BALTA, TRENT MATTHEW, US
[72] COHOON, MICHAEL TERRENCE, US
[72] REILLY, TORIN, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-09-23
[86] 2021-04-27 (PCT/CN2021/090245)
[87] (WO2021/223628)
[30] US (16/868,902) 2020-05-07

[21] **3,173,095**
[13] A1

[51] **Int.Cl. C07D 417/14 (2006.01) A61K 51/04 (2006.01) C07C 233/07 (2006.01) C07C 233/11 (2006.01) C07C 233/26 (2006.01) C07C 235/64 (2006.01) C07C 237/08 (2006.01) C07D 207/16 (2006.01) C07D 209/26 (2006.01) C07D 209/28 (2006.01) C07D 213/56 (2006.01) C07D 239/42 (2006.01) C07D 241/20 (2006.01) C07D 401/06 (2006.01) C07H 19/052 (2006.01) C07K 5/10 (2006.01)**
[25] EN
[54] **STABLE HEAVY ISOTOPES IN AMIDE FUNCTIONAL GROUPS AND USES THEREOF**
[54] **ISOTOPES LOURDS STABLES DANS DES GROUPES FONCTIONNELS AMIDE ET UTILISATIONS CORRESPONDANTES**
[72] LU, JIASHENG, CN
[72] GU, JIAMIN, CN
[72] JI, XIANG, CN
[72] ZHU, DONGQING, CN
[72] HE, XIAOLIN, CN
[72] KONG, XIANQI, CA
[71] RISEN (SUZHOU) PHARMA TECH CO., LTD., CN
[71] SHANGHAI JUNSHI BIOSCIENCES CO., LTD., CN
[71] LU, JIASHENG, CN
[71] GU, JIAMIN, CN
[71] JI, XIANG, CN
[71] ZHU, DONGQING, CN
[71] HE, XIAOLIN, CN
[71] KONG, XIANQI, CA
[85] 2022-09-23
[86] 2021-03-25 (PCT/CA2021/050387)
[87] (3173095)
[30] US (62/994,378) 2020-03-25

Demandes PCT entrant en phase nationale

[21] **3,173,096**
[13] A1

[51] **Int.Cl. A61K 35/30 (2015.01) A61P 25/02 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **HYPOIMMUNOGENIC NEURAL CELLS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS AND CONDITIONS**

[54] **CELLULES NEURALES HYPOIMMUNOGENES POUR LE TRAITEMENT DE TROUBLES ET D'ETATS NEUROLOGIQUES**

[72] SCHREPFER, SONJA, US

[72] RAMOS-ZAYAS, REBECA, US

[71] SANA BIOTECHNOLOGY, INC., US

[85] 2022-09-23

[86] 2021-03-25 (PCT/US2021/024228)

[87] (WO2021/195426)

[30] US (62/994,750) 2020-03-25

[21] **3,173,099**
[13] A1

[51] **Int.Cl. C09D 11/17 (2014.01) C09B 67/08 (2006.01) C09B 67/46 (2006.01)**

[25] EN

[54] **AQUEOUS INK COMPOSITION FOR WRITING UTENSILS**

[54] **COMPOSITION D'ENCRE AQUEUSE POUR OUTIL D'ECRITURE**

[72] HAGA, HISATO, JP

[72] INOUE, KENSUKE, JP

[71] MITSUBISHI PENCIL COMPANY, LIMITED, JP

[85] 2022-09-23

[86] 2021-04-26 (PCT/JP2021/016658)

[87] (WO2021/225086)

[30] JP (2020-081880) 2020-05-07

[21] **3,173,100**
[13] A1

[51] **Int.Cl. A61K 38/12 (2006.01) A61K 31/382 (2006.01) A61K 31/4425 (2006.01) A61K 31/473 (2006.01) A61K 31/538 (2006.01) A61K 31/5415 (2006.01) A61K 31/675 (2006.01) A61K 38/06 (2006.01) A61K 38/07 (2006.01) A61K 38/10 (2006.01) A61K 38/16 (2006.01) A61P 27/02 (2006.01) A61P 27/06 (2006.01)**

[25] EN

[54] **PROCESSES AND AGENTS FOR GLAUCOMA**

[54] **PROCEDES ET AGENTS CONTRE LE GLAUCOME**

[72] PENA, JOHN T. G., US

[72] MITCHELL, JAMES MURRAY, US

[72] REMMEL, HARMON LAWRENCE, US

[72] MORGAN, MELISSA A., US

[71] AUFBAU MEDICAL INNOVATIONS LIMITED, IE

[85] 2022-09-23

[86] 2021-03-24 (PCT/US2021/023825)

[87] (WO2021/195176)

[30] US (62/994,469) 2020-03-25

[21] **3,173,101**
[13] A1

[51] **Int.Cl. H01F 1/24 (2006.01)**

[25] EN

[54] **IRON-BASED SOFT MAGNETIC POWDER FOR DUST CORES, DUST CORE AND METHODS OF PRODUCING SAME**

[54] **POUDRE MAGNETIQUE DOUCE A BASE DE FER POUR NOYAUX DE POUSSIERE, NOYAU DE POUSSIERE ET SON PROCEDE DE PRODUCTION**

[72] TAKASHITA, TAKUYA, JP

[72] NAKAMURA, TAKECHIKA, JP

[71] JFE STEEL CORPORATION, JP

[85] 2022-09-23

[86] 2020-12-18 (PCT/JP2020/047540)

[87] (WO2021/199525)

[30] JP (2020-066992) 2020-04-02

[21] **3,173,102**
[13] A1

[51] **Int.Cl. H04W 12/00 (2021.01) H04W 12/06 (2021.01) H04W 12/08 (2021.01)**

[25] EN

[54] **SYSTEM ARCHITECTURE FOR ACCESSING SECURE DATA FROM A MOBILE DEVICE IN COMMUNICATION WITH A REMOTE SERVER**

[54] **ARCHITECTURE DE SYSTEME POUR ACCEDER A DES DONNEES SECURISEES A PARTIR D'UN DISPOSITIF MOBILE EN COMMUNICATION AVEC UN SERVEUR DISTANT**

[72] SMITH, CHARLES ERIC, US

[72] AYESTARAN, SERGIO GUSTAVO, AR

[71] APPBRILLIANCE, INC., US

[85] 2022-09-23

[86] 2021-03-19 (PCT/US2021/023124)

[87] (WO2021/194870)

[30] US (16/828,449) 2020-03-24

[21] **3,173,104**
[13] A1

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

[25] EN

[54] **AEROSOL PROVISION SYSTEM**

[54] **SYSTEME DE FOURNITURE D'AEROSOL**

[72] POYNTON, SIMON, GB

[71] NICOLENTURES TRADING LIMITED, GB

[85] 2022-09-23

[86] 2021-09-10 (PCT/GB2021/052358)

[87] (WO2022/064174)

[30] GB (2014915.9) 2020-09-22

[21] **3,173,105**
[13] A1

[51] **Int.Cl. E21C 27/22 (2006.01) E21C 29/22 (2006.01) E21C 31/04 (2006.01) E21C 41/00 (2006.01)**

[25] EN

[54] **GRAVEL EXCAVATION SYSTEM**

[54] **SYSTEME D'EXCAVATION DE GRAVIER**

[72] ZADEL, CHRISTOPHER J., US

[71] NORTHERN COLORADO CONSTRUCTORS, INC., US

[85] 2022-09-23

[86] 2021-04-09 (PCT/US2021/026662)

[87] (WO2021/207658)

[30] US (63/007,688) 2020-04-09

[30] US (17/226,782) 2021-04-09

PCT Applications Entering the National Phase

[21] **3,173,106**
[13] A1

[51] **Int.Cl. A23L 29/30 (2016.01) A23J 3/16 (2006.01)**

[25] EN

[54] **TEST MEAL, TEST MEAL PACKAGING, METHOD AND USES THEREOF**

[54] **REPAS D'EPREUVE, EMBALLAGE DE REPAS D'EPREUVE, PROCEDE ET UTILISATIONS ASSOCIES**

[72] LAUTT, WILFRED WAYNE, CA

[71] SCIMAR LTD., CA

[85] 2022-09-23

[86] 2021-07-23 (PCT/CA2021/051030)

[87] (3173106)

[30] US (63/055,717) 2020-07-23

[21] **3,173,107**
[13] A1

[51] **Int.Cl. A61K 9/107 (2006.01) A61K 9/48 (2006.01) A61K 9/50 (2006.01) A61P 31/04 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING ANTIMICROBIAL AGENT AND ITS USES**

[54] **COMPOSITION COMPRENANT UN AGENT ANTIMICROBIEN ET SES UTILISATIONS**

[72] TIGHE, MARTIN, IE

[72] COULTER, IVAN, IE

[71] CIPO, CA

[71] SHARED VISION TECHNOLOGY LTD., IE

[85] 2022-09-23

[86] 2021-03-27 (PCT/EP2021/058056)

[87] (WO2021/191462)

[30] GB (2004536.5) 2020-03-27

[21] **3,173,108**
[13] A1

[51] **Int.Cl. E04F 15/02 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **TILE PANEL, SURFACE COVERING OF A MULTITUDE OF SUCH TILE PANELS FOR A FLOOR, CEILING OR WALL SURFACE**

[54] **PANNEAU DE TUILES, REVETEMENT DE SURFACE D'UNE MULTITUDE DE TELS PANNEAUX DE TUILES POUR UNE SURFACE DE SOL, DE PLAFOND OU DE MUR**

[72] BOUCKE, EDDY ALBERIC, BE

[71] I4F LICENSING NV, BE

[85] 2022-09-23

[86] 2021-04-06 (PCT/EP2021/058956)

[87] (WO2021/204810)

[30] NL (2025283) 2020-04-06

[21] **3,173,109**
[13] A1

[51] **Int.Cl. G06Q 50/12 (2012.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DIGITAL RECORD VERIFICATION**

[54] **PROCEDE ET SYSTEME DE VERIFICATION D'ENREGISTREMENT NUMERIQUE**

[72] FOWLER, CAMERON, US

[72] SULLIVAN, MATTHEW, US

[71] DIGITAL SEAT MEDIA, INC., US

[85] 2022-09-23

[86] 2021-04-27 (PCT/US2021/070471)

[87] (WO2021/222934)

[30] US (63/015,688) 2020-04-27

[21] **3,173,111**
[13] A1

[51] **Int.Cl. A61L 27/36 (2006.01) B01D 59/20 (2006.01) G01N 30/26 (2006.01)**

[25] EN

[54] **DEVICE AND METHODS FOR ISOLATING EXTRACELLULAR MATRIX BODIES**

[54] **DISPOSITIF ET PROCEDES POUR ISOLER DES CORPS DE MATRICE EXTRACELLULAIRE**

[72] PENA, JOHN T. G., US

[72] MITCHELL, JAMES MURRAY, US

[72] REMMEL, HARMON LAWRENCE, US

[72] D'AGOSTINO, LUCA, US

[72] PALANIVELU, SANGEETHA TANDALAM, US

[72] URYU, KUNIHIRO, US

[71] AUFBAU MEDICAL INNOVATIONS LIMITED, IE

[85] 2022-09-23

[86] 2021-03-24 (PCT/US2021/023827)

[87] (WO2021/195178)

[30] US (62/994,469) 2020-03-25

[21] **3,173,112**
[13] A1

[51] **Int.Cl. A61K 31/575 (2006.01) A61K 36/28 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**

[25] FR

[54] **PHYTOECDYSONES AND DERIVATIVES THEREOF FOR USE IN TREATING DISORDERED RESPIRATORY FUNCTION ON VIRAL INFECTION**

[54] **PHYTOECDYSONES ET LEURS DERIVES POUR LEUR UTILISATION DANS LE TRAITEMENT D'ALTERATIONS DE LA FONCTION RESPIRATOIRE LORS D'UNE INFECTION VIRALE**

[72] DILDA, PIERRE, FR

[72] LAFONT, RENE, FR

[72] VEILLET, STANISLAS, FR

[72] AGUS, SAMUEL, US

[72] DIOH, WALY, FR

[72] CAMELO, SERGE, FR

[72] LATIL, MATHILDE, FR

[72] CHABANE DE SAINT AUBIN, MOUNIA, FR

[72] TOURETTE, CENDRINE, FR

[71] BIOPHYTIS, FR

[71] SARBONNE UNIVERSITE, FR

[85] 2022-09-23

[86] 2021-03-24 (PCT/FR2021/050503)

[87] (WO2021/198588)

[30] FR (FR2003131) 2020-03-30

Demandes PCT entrant en phase nationale

[21] **3,173,113**
[13] A1

[51] **Int.Cl. G16H 40/20 (2018.01) G16H 40/67 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COMMUNICATING HEALTH-RELATED MESSAGES REGARDING VENTILATED PATIENTS**
[54] **SYSTEME ET PROCEDE DE COMMUNICATION DE MESSAGES LIES A LA SANTE CONCERNANT DES PATIENTS VENTILES**
[72] VARGA, CHRISTOPHER M., US
[72] HASNAIN, SOMJI, US
[71] VYAIR MEDICAL, INC., US
[85] 2022-09-23
[86] 2021-03-22 (PCT/US2021/023522)
[87] (WO2021/194989)
[30] US (16/828,906) 2020-03-24

[21] **3,173,114**
[13] A1

[51] **Int.Cl. B21J 9/12 (2006.01) B21J 7/04 (2006.01) B21J 7/28 (2006.01) B21J 13/03 (2006.01)**
[25] EN
[54] **AN APPARATUS AND A METHOD FOR MATERIAL FORMING BY IMPACT**
[54] **APPAREIL ET PROCEDE DE FORMAGE DE MATERIAU PAR FRAPPE**
[72] HENRIKSSON, ERIKA, SE
[71] CELL IMPACT AB, SE
[85] 2022-09-23
[86] 2021-03-17 (PCT/EP2021/056826)
[87] (WO2021/197853)
[30] SE (2050376-9) 2020-04-02

[21] **3,173,116**
[13] A1

[51] **Int.Cl. B25J 9/00 (2006.01) B25J 5/00 (2006.01) B25J 9/18 (2006.01) B25J 19/02 (2006.01) B25J 19/04 (2006.01) B60K 1/02 (2006.01)**
[25] EN
[54] **FLEXIBLE INSPECTION ROBOT**
[54] **FLEXIBLE INSPECTION ROBOT**
[72] BRYNER, EDWARD A., US
[72] JOURDE, DILLON R., US
[72] CHO, EDWIN H., US
[72] CHO, MARK, US
[72] BINGER, MICHAEL A., US
[72] DENNER, KATHERINE VIRGINIA, US
[72] AUDA, MICHAEL STEPHEN, US
[72] LOW, KEVIN Y., US
[72] WESTENBERG, SAMUEL THEODORE, US
[72] CUTI, ALEXANDER R., US
[72] CORDOVA, IGNACIO J., CL
[72] TROGU, FRANCESCO H., US
[71] GECKO ROBOTICS, INC., US
[85] 2022-09-23
[86] 2022-04-08 (PCT/US2022/023993)
[87] (3173116)
[30] US (63/177,141) 2021-04-20
[30] US (63/255,880) 2021-10-14

[21] **3,173,117**
[13] A1

[51] **Int.Cl. D04C 3/42 (2006.01)**
[25] EN
[54] **ROTATIONAL BRAIDING MACHINE**
[54] **MACHINE A TRESSER ROTATIVE**
[72] FRAHMANN, ARNO, DE
[72] TURAN, HUSEYIN, DE
[72] STRATMANN, MAIK, DE
[71] BIZLINK INDUSTRY GERMANY GMBH, DE
[85] 2022-09-23
[86] 2021-03-19 (PCT/EP2021/057056)
[87] (WO2021/191066)
[30] DE (10 2020 108 046.8) 2020-03-24

[21] **3,173,118**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **NEODEGRADER CONJUGATES**
[54] **CONJUGUES DE TYPE NEODEGRADER**
[72] FISHKIN, NATHAN, US
[72] PARK, PETER U., US
[71] ORUM THERAPEUTICS, INC., KR
[85] 2022-09-23
[86] 2021-03-31 (PCT/IB2021/052713)
[87] (WO2021/198965)
[30] US (63/003,179) 2020-03-31
[30] US (63/067,967) 2020-08-20

[21] **3,173,121**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 47/22 (2006.01) A61K 47/28 (2006.01) A61P 31/12 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING INFECTIONS**
[54] **PROCEDES ET COMPOSITIONS POUR TRAITER DES INFECTIONS**
[72] HIBNER, BARBARA L., US
[71] DECOY THERAPEUTICS, INC., US
[85] 2022-09-23
[86] 2022-01-18 (PCT/US2022/012736)
[87] (WO2022/159372)
[30] US (63/140,387) 2021-01-22

PCT Applications Entering the National Phase

[21] **3,173,124**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/0735 (2010.01) C12N 5/077 (2010.01) C12N 5/0775 (2010.01)**

[25] EN

[54] **GENERATING POPULATIONS OF HUMAN BLOOD AND BLOOD VESSEL PROGENITORS FROM PLURIPOTENT STEM CELLS**

[54] **GENERATION DE POPULATIONS DE SANG HUMAIN ET DE PROGENITEURS DE VAISSEAUX SANGUINS A PARTIR DE CELLULES SOUCHES PLURIPOTENTES**

[72] LOH, KYLE M., US

[72] ANG, LAY TENG, SG

[72] NGUYEN, ALANA T., US

[72] FOWLER, JONAS, US

[72] WEISSMAN, IRVING L., US

[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[85] 2022-09-23

[86] 2021-04-06 (PCT/US2021/026024)

[87] (WO2021/207251)

[30] US (63/005,896) 2020-04-06

[21] **3,173,125**
[13] A1

[51] **Int.Cl. G01N 27/414 (2006.01)**

[25] EN

[54] **SINGLE-USE DISPOSABLE REFERENCE SENSOR**

[54] **CAPTEUR DE REFERENCE JETABLE A USAGE UNIQUE**

[72] OH, BONG, US

[71] NOVA BIOMEDICAL CORPORATION, US

[85] 2022-09-23

[86] 2021-02-25 (PCT/US2021/019524)

[87] (WO2021/236189)

[30] US (16/879,877) 2020-05-21

[21] **3,173,126**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 9/51 (2006.01) C07C 323/25 (2006.01) C07D 401/12 (2006.01) C12N 15/88 (2006.01)**

[25] EN

[54] **NOVEL LIPIDS AND NANOPARTICLE COMPOSITIONS THEREOF**

[54] **NOUVEAUX LIPIDES ET COMPOSITIONS DE NANOPARTICULES ASSOCIEES**

[72] STANTON, MATTHEW G., US

[72] NOLTING, BIRTE, US

[71] GENERATION BIO CO., US

[85] 2022-09-23

[86] 2021-03-26 (PCT/US2021/024413)

[87] (WO2021/195529)

[30] US (63/000,990) 2020-03-27

[21] **3,173,128**
[13] A1

[51] **Int.Cl. A24F 40/44 (2020.01) A24F 40/50 (2020.01) A24F 40/53 (2020.01) A24F 40/57 (2020.01)**

[25] EN

[54] **AEROSOL PROVISION SYSTEM**

[54] **SYSTEME DE FOURNITURE D'AEROSOL**

[72] LEADLEY, DAVID, GB

[72] XIAO, MIKE, GB

[72] NELSON, DAVID ALAN, GB

[72] MULLIN, MARTIN CONRAD, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-23

[86] 2021-09-10 (PCT/GB2021/052354)

[87] (WO2022/064171)

[30] GB (2014916.7) 2020-09-22

[30] GB (2014905.0) 2020-09-22

[30] GB (2014924.1) 2020-09-22

[21] **3,173,129**
[13] A1

[51] **Int.Cl. C07K 14/605 (2006.01) A61P 1/08 (2006.01)**

[25] EN

[54] **QD DOSING OF GIP RECEPTOR AGONIST PEPTIDE COMPOUNDS AND USES THEREOF**

[54] **DOSAGE D'UNE FOIS PAR JOUR DE COMPOSES PEPTIDIQUES DE L'AGONISTE DU RECEPTEUR DU GIP ET LEURS UTILISATIONS**

[72] HENNINOT, ANTOINE CHARLES OLIVIER, US

[72] COLE, DEREK CECIL, US

[72] SCORAH, NICHOLAS, US

[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP

[85] 2022-09-23

[86] 2021-03-25 (PCT/JP2021/014423)

[87] (WO2021/193984)

[30] US (62/994,716) 2020-03-25

[21] **3,173,130**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/66 (2017.01) A61K 38/17 (2006.01) A61K 49/00 (2006.01) A61K 51/08 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) C07K 14/16 (2006.01) C07K 14/47 (2006.01) C12N 9/00 (2006.01) C12N 15/09 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **MOLECULES FOR ORGANELLE-SPECIFIC PROTEIN DELIVERY**

[54] **MOLECULES POUR L'ADMINISTRATION DE PROTEINES SPECIFIQUES A DES ORGANITES**

[72] BETTOUN, JOAN DAVID, US

[72] WISSNER, REBECCA, US

[71] LARIMAR THERAPEUTICS, INC., US

[85] 2022-09-23

[86] 2021-03-26 (PCT/US2021/024534)

[87] (WO2021/195597)

[30] US (63/000,138) 2020-03-26

Demandes PCT entrant en phase nationale

[21] **3,173,131**
[13] A1

[51] **Int.Cl. C12P 19/34 (2006.01) C12Q 1/6844 (2018.01)**

[25] EN

[54] **IN VITRO MANUFACTURING AND PURIFICATION OF THERAPEUTIC MRNA**

[54] **FABRICATION ET PURIFICATION IN VITRO D'ARNM THERAPEUTIQUE**

[72] HUMBERT, MICHAEL, US

[72] KOGLIN, ALEXANDER, US

[72] VILLANUEVA, CHARLIE, US

[72] STRIEKER, MATTHIAS, US

[71] NATURE'S TOOLBOX, INC., US

[85] 2022-09-23

[86] 2021-04-16 (PCT/US2021/027774)

[87] (WO2021/212034)

[30] US (63/011,133) 2020-04-16

[21] **3,173,132**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01)**

[25] EN

[54] **CATHETER AND PERFORATION SYSTEM INCLUDING CATHETER**

[54] **CATHETER ET SYSTEME DE PERFORATION COMPRENANT UN CATHETER**

[72] LUK, MARIA, CA

[72] DAVIES, GARETH, CA

[72] URBANSKI, JOHN PAUL, CA

[71] BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED, IE

[85] 2022-09-23

[86] 2021-04-06 (PCT/IB2021/052851)

[87] (WO2021/205342)

[30] US (63/007,662) 2020-04-09

[21] **3,173,133**
[13] A1

[51] **Int.Cl. C12N 15/77 (2006.01) C07K 14/34 (2006.01) C12P 13/06 (2006.01)**

[25] EN

[54] **MICROORGANISMS HAVING ENCHANCED L-BRANCHED-CHAIN AMINO ACID PRODUCTIVITY, AND METHOD FOR PRODUCING L-BRANCHED-CHAIN AMINO ACID BY USING SAME**

[54] **MICRO-ORGANISMES A PRODUCTIVITE AMELIOREE D'ACIDES AMINES A CHAINE RAMIFIEE EN L AMELIOREE, ET PROCEDE DE PRODUCTION D'ACIDES AMINES A CHAINE RAMIFIEE EN L A L'AIDE DE CELUI-CI**

[72] YOON, BYOUNG HOON, KR

[72] KIM, HYO JIN, KR

[72] KIM, SEON HYE, KR

[72] KIM, HYUNG JOON, KR

[72] CHOI, SUN HYOUNG, KR

[72] LEE, JI HYE, KR

[71] CJ CHEILJEDANG CORPORATION, KR

[85] 2022-09-23

[86] 2021-05-06 (PCT/KR2021/005641)

[87] (WO2021/235742)

[30] KR (10-2020-0061174) 2020-05-21

[21] **3,173,134**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR VACCINATION AND THE TREATMENT OF INFECTIOUS DISEASES**

[54] **COMPOSITIONS ET METHODES POUR LA VACCINATION ET LE TRAITEMENT DE MALADIES INFECTIEUSES**

[72] HARVEY, CHRISTOPHER, US

[72] MURRAY, RICHARD, US

[72] HUEBNER, ROBERT, US

[71] JOUNCE THERAPEUTICS, INC., US

[85] 2022-09-23

[86] 2021-04-19 (PCT/US2021/027908)

[87] (WO2021/216417)

[30] US (63/012,574) 2020-04-20

[30] US (63/084,821) 2020-09-29

[30] US (63/136,279) 2021-01-12

[21] **3,173,136**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 31/14 (2006.01) C07K 14/47 (2006.01)**

[25] EN

[54] **EZRIN PEPTIDE 1 FOR USE IN A METHOD OF TREATING COVID-19**

[54] **PEPTIDE EZRINE 1 DESTINE A ETRE UTILISE DANS UN PROCEDE DE TRAITEMENT DE LA COVID-19**

[72] NESSELHUT, THOMAS, DE

[72] NESSELHUT, JAN, DE

[72] OSMERS, RUDIGER, DE

[71] PANTAPHARM AG, DE

[85] 2022-09-23

[86] 2021-03-31 (PCT/EP2021/058459)

[87] (WO2021/198346)

[30] EP (20167623.6) 2020-04-01

[30] EP (20172561.1) 2020-04-30

[30] EP (20173939.8) 2020-05-11

[21] **3,173,137**
[13] A1

[51] **Int.Cl. A61K 9/51 (2006.01) A61P 35/00 (2006.01) C07K 14/32 (2006.01) C07K 14/435 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **DESIGNED ANTIBODY-BOUND NANOPARTICLES**

[54] **NANOPARTICLES CONCUES, LIEES A UN ANTICORPS**

[72] DIVINE, ROBERT, US

[72] VULOVIC, IVAN, US

[72] BAKER, DAVID, US

[72] SHEFFLER, WILLIAM H., US

[72] SEEGER, FRANZISKA, US

[71] UNIVERSITY OF WASHINGTON, US

[85] 2022-09-23

[86] 2021-06-07 (PCT/US2021/036109)

[87] (WO2021/252323)

[30] US (63/036,062) 2020-06-08

[30] US (63/085,351) 2020-09-30

PCT Applications Entering the National Phase

[21] **3,173,138**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/42 (2020.01) A24F 40/44 (2020.01) A24F 40/485 (2020.01) A24F 40/50 (2020.01) A24F 40/57 (2020.01)**

[25] EN

[54] **AEROSOL PROVISION SYSTEM**
SYSTEME DE FOURNITURE
D'AEROSOL

[72] LEADLEY, DAVID, GB
[72] MOLONEY, PATRICK, GB
[72] MULLIN, MARTIN CONRAD, GB
[72] XIAO, MIKE, GB
[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-23
[86] 2021-09-10 (PCT/GB2021/052356)
[87] (WO2022/064172)
[30] GB (2014912.6) 2020-09-22
[30] GB (2014907.6) 2020-09-22
[30] GB (2014908.4) 2020-09-22
[30] GB (2014913.4) 2020-09-22

[21] **3,173,139**
[13] A1

[51] **Int.Cl. B29C 64/393 (2017.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR 3D PRINTING**
SYSTEMES ET PROCEDES
D'IMPRESSION 3D

[72] HAMBLETON, DANIEL, CA
[72] RESLINSKI, TOMASZ T., CA
[72] ROSS, ELISSA, CA
[71] METAFOLD INC., CA
[85] 2022-09-23
[86] 2021-02-17 (PCT/CA2021/050171)
[87] (WO2022/174322)

[21] **3,173,140**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 1/137 (2006.01)**

[25] EN

[54] **TEMPORARY STORAGE SHELF BOARD, GOODS SHELF, CONTROL METHOD AND DEVICE, APPARATUS AND SYSTEM**

[54] **TABLETTE DE STOCKAGE TEMPORAIRE, ETAGERE DE MARCHANDISES, PROCEDE ET DISPOSITIF DE COMMANDE, APPAREIL ET SYSTEME**

[72] WANG, XINHAO, CN
[72] TANG, DAN, CN
[72] ZOU, YANGWEI, CN
[72] HE, YUNDI, CN
[72] YANG, WEI, CN
[71] SHANGHAI QUICKTRON INTELLIGENT TECHNOLOGY CO., LTD, CN

[85] 2022-09-23
[86] 2021-01-08 (PCT/CN2021/070889)
[87] (WO2021/190085)
[30] CN (202010231552.9) 2020-03-27
[30] CN (202021892576.0) 2020-09-02
[30] CN (202010231545.9) 2020-03-27
[30] CN (202010232310.1) 2020-03-27
[30] CN (202022292766.5) 2020-10-15

[21] **3,173,141**
[13] A1

[51] **Int.Cl. B23K 11/11 (2006.01) B23K 11/18 (2006.01) B23K 11/20 (2006.01) H05B 3/03 (2006.01)**

[25] EN

[54] **BALANCED WELDING OF DISSIMILAR MATERIALS**
SOUDEGE EQUILIBRE DE MATERIAUX DISSEMBLABLES

[72] CLOETER, NATHAN, US
[71] KTH PARTS INDUSTRIES, INC., US
[85] 2022-09-23
[86] 2021-08-18 (PCT/US2021/046474)
[87] (WO2022/055676)
[30] US (17/015,449) 2020-09-09
[30] US (17/401,973) 2021-08-13

[21] **3,173,143**
[13] A1

[51] **Int.Cl. A61K 31/34 (2006.01) A61P 9/00 (2006.01) A61P 9/10 (2006.01) A61P 31/00 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **NOVEL METHODS OF USING NITRIC OXIDE DONOR COMPOUNDS FOR TREATMENT OF COVID-19 AND OTHER INFECTIOUS DISEASES**
NOUVEAUX PROCEDES D'UTILISATION DE COMPOSES DONNEURS D'OXYDE NITRIQUE POUR LE TRAITEMENT DE LA COVID-19 ET D'AUTRES MALADIES INFECTIEUSES

[72] SCHMEDTJE, JOHN, US
[71] COEURATIVE, INC., US
[71] SCHMEDTJE, JOHN, US
[85] 2022-09-23
[86] 2021-03-27 (PCT/US2021/024540)
[87] (WO2021/202317)
[30] US (63/001,289) 2020-03-28
[30] US (63/033,194) 2020-06-01
[30] US (63/111,019) 2020-11-07
[30] US (63/119,539) 2020-11-30
[30] US (63/134,579) 2021-01-06

[21] **3,173,144**
[13] A1

[51] **Int.Cl. A01N 31/06 (2006.01) A01N 43/08 (2006.01) A01N 43/16 (2006.01) A01N 43/80 (2006.01)**

[25] EN

[54] **CONTROLLING THE GROWTH OF VEGETATION**
CONTROLE DE LA CROISSANCE DE VEGETATION

[72] MCCARTHY, DENNIS, GB
[72] CLEARWATER, JOHN, GB
[71] BIONOME TECHNOLOGY LIMITED, GB
[85] 2022-09-23
[86] 2021-03-25 (PCT/GB2021/050727)
[87] (WO2021/191614)
[30] GB (2004292.5) 2020-03-25

Demandes PCT entrant en phase nationale

[21] **3,173,145**
[13] A1

[51] **Int.Cl. A61K 38/47 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C12N 9/24 (2006.01)**

[25] EN

[54] **RECOMBINANT SIALIDASES WITH REDUCED PROTEASE SENSITIVITY, SIALIDASE FUSION PROTEINS, AND METHODS OF USING THE SAME**

[54] **SIALIDASES RECOMBINANTES A SENSIBILITE A LA PROTEASE REDUITE, PROTEINES DE FUSION DE SIALIDASE ET LEURS METHODES D'UTILISATION**

[72] PENG, LI, US
[72] SHELKE, SANDIP A., US
[72] CAO, LIZHI, US
[71] PALLEON PHARMACEUTICALS INC., US

[85] 2022-09-23
[86] 2021-07-02 (PCT/US2021/040240)
[87] (WO2022/006492)
[30] US (63/047,989) 2020-07-03
[30] US (63/134,411) 2021-01-06

[21] **3,173,147**
[13] A1

[51] **Int.Cl. C11D 1/37 (2006.01) C11D 1/14 (2006.01)**

[25] EN

[54] **DETERGENT COMPOSITIONS CONTAINING A BRANCHED SURFACTANT**

[54] **COMPOSITIONS DETERGENTES CONTENANT UN TENSIOACTIF RAMIFIE**

[72] VINSON, PHILLIP KYLE, US
[72] BECKS, VINCENT JOHN, US
[72] LANGEVIN, REBECCA ANN, US
[72] WANG, MU, US
[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2022-09-23
[86] 2021-06-03 (PCT/US2021/035604)
[87] (WO2021/247801)
[30] US (63/035,124) 2020-06-05

[21] **3,173,148**
[13] A1

[51] **Int.Cl. A61K 31/4965 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **THERAPEUTIC AGENT FOR CORONAVIRUS INFECTION**

[54]

[72] SAKURAI, TSUTOMU, JP
[71] FUJIFILM TOYAMA CHEMICAL CO., LTD., JP

[85] 2022-09-23
[86] 2021-03-26 (PCT/JP2021/012858)
[87] (WO2021/200651)
[30] JP (2020-061411) 2020-03-30
[30] JP (2020-156253) 2020-09-17

[21] **3,173,150**
[13] A1

[51] **Int.Cl. A23C 9/13 (2006.01) A23L 29/00 (2016.01)**

[25] EN

[54] **FERMENTED MILK COMPOSITIONS FOR USE IN METHODS OF NUTRITIONAL SUPPLEMENTATION**

[54] **COMPOSITIONS DE LAIT FERMENTE DESTINEES A ETRE UTILISEES DANS DES PROCEDES DE SUPPLEMENTATION NUTRITIONNELLE**

[72] KOUTNIKOVA, HANA, FR
[71] COMPAGNIE GERVAIS DANONE, FR

[85] 2022-09-23
[86] 2021-03-29 (PCT/IB2021/000226)
[87] (WO2021/198788)
[30] US (63/001,835) 2020-03-30

[21] **3,173,151**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**

[25] EN

[54] **TARGET-CELL RESTRICTED, COSTIMULATORY, BISPECIFIC AND BIVALENT ANTI-CD28 ANTIBODIES**

[54] **ANTICORPS ANTI-CD28 BISPECIFIQUES ET BIVALENTS, CO-STIMULANTS, RESTREINTS A UNE CELLULE CIBLE**

[72] SALIH, HELMUT, DE
[72] JUNG, GUNDRAM, DE
[72] PFLUGLER, MARTIN, DE
[72] ZEKRI, LATIFA, DE
[72] MANZ, TIMO, DE
[71] DEUTSCHES KREBSFORSCHUNGSZENTRUM STIFTUNG DES OFFENTLICHEN RECHTS, DE

[71] EBERHARD KARLS UNIVERSITAT TUBINGEN, DE

[85] 2022-09-23
[86] 2021-11-03 (PCT/EP2021/080564)
[87] (WO2022/096536)
[30] EP (20205442.5) 2020-11-03

[21] **3,173,152**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**

[25] EN

[54] **METHODS AND KITS FOR DETERMINING THE RISK OF BREAST CANCER RECURRENCE**

[54] **PROCEDES ET KITS POUR DETERMINER LE RISQUE DE RECIDIVE DU CANCER DU SEIN**

[72] DI FIORE, PIER PAOLO, IT
[72] PECE, SALVATORE, IT
[71] ISTITUTO EUROPEO DI ONCOLOGIA S.R.L., IT
[71] UNIVERSITA DEGLI STUDI DI MILANO, IT

[85] 2022-09-23
[86] 2021-05-07 (PCT/EP2021/062176)
[87] (WO2021/224466)
[30] EP (20173612.1) 2020-05-08

PCT Applications Entering the National Phase

[21] **3,173,153**
[13] A1

[51] **Int.Cl. B61B 13/08 (2006.01)**
[25] EN
[54] **EXTENSION LOGIC FOR HYPERLOOP/MAGLEV VEHICLE**
[54] **LOGIQUE D'EXTENSION POUR VEHICULE HYPERLOOP/MAGLEV**
[72] ELLIS, ANDREW MICHAEL, CA
[72] KLIM, GRAEME PETER ARTHUR, FR
[72] MAZOUÉ, THIBAUD, FR
[71] SAFRAN LANDING SYSTEMS, FR
[71] SAFRAN LANDING SYSTEMS CANADA INC., CA
[85] 2022-09-23
[86] 2021-03-19 (PCT/EP2021/057155)
[87] (WO2021/191090)
[30] US (16/828,230) 2020-03-24

[21] **3,173,155**
[13] A1

[51] **Int.Cl. F16L 37/23 (2006.01)**
[25] EN
[54] **QUICK LOCK RELEASE COUPLING**
[54]
[72] TREMBLAY, SEBASTIEN, CA
[72] TAILLON, MICHEL, CA
[71] TAIMI R&D INC., CA
[85] 2022-09-23
[86] 2022-05-03 (PCT/CA2022/050686)
[87] (3173155)
[30] US (63/201,573) 2021-05-05
[30] US (63/201,574) 2021-05-05

[21] **3,173,156**
[13] A1

[51] **Int.Cl. A61C 8/00 (2006.01) A61C 13/265 (2006.01) A61C 13/275 (2006.01)**
[25] EN
[54] **BAR, ASSEMBLY OF AN OVERDENTURE AND A BAR, OVERDENTURE**
[54] **BARRE, ENSEMBLE D'UNE PROTHESE HYBRIDE ET D'UNE BARRE, ET PROTHESE HYBRIDE**
[72] VAN DOORNE, LUC, BE
[71] BVBA DR. VAN DOORNE LUC, BE
[85] 2022-09-23
[86] 2021-05-03 (PCT/IB2021/053671)
[87] (WO2021/224753)
[30] BE (BE2020/5294) 2020-05-05

[21] **3,173,157**
[13] A1

[51] **Int.Cl. G06F 3/0354 (2013.01)**
[25] EN
[54] **WRITING INSTRUMENT, SYSTEM AND METHOD FOR TRANSPARENT MONITORING AND ANALYSIS OF WRITING**
[54] **INSTRUMENT D'ECRITURE, SYSTEME ET PROCEDE DE SURVEILLANCE ET D'ANALYSE TRANSPARENTES D'ECRITURE**
[72] FERRANTE, SIMONA, IT
[72] PEDROCCHI, ALESSANDRA LAURA GIULIA, IT
[72] LUNARDINI, FRANCESCA, IT
[72] DI FEBBO, DAVIDE, IT
[72] MALAVOLTI, MILAD, IT
[72] BORGHESE, NUNZIO ALBERTO, IT
[71] POLITECNICO DI MILANO, IT
[71] UNIVERSITA' DEGLI STUDI MILANO, IT
[85] 2022-09-23
[86] 2021-03-30 (PCT/IB2021/052648)
[87] (WO2021/198920)
[30] IT (10202000006793) 2020-03-31

[21] **3,173,158**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **DEFECTIVE INTERFERING VIRAL GENOMES**
[54] **GENOMES VIRAUX INTERFERENTS DEFECTUEUX**
[72] VIGNUZZI, MARCO, FR
[72] MEYER, BJORN, FR
[72] REZELJ, VERONICA, FR
[72] LEVI, LAURA, FR
[72] BERNHAUEROVA, VERONIKA, FR
[72] VALLET, THOMAS, FR
[72] PIEPLU, TANGUY, FR
[72] SHENGJULER, DJOSHKUN, FR
[72] BEAUCOURT, STEPHANIE, FR
[72] BLANC, HERVE, FR
[72] PARDIGON, NATHALIE, FR
[72] BARBA-SPAETH, GIOVANNA, FR
[72] SALEH, MARIA-CARLA, FR
[71] INSTITUT PASTEUR, FR
[85] 2022-09-23
[86] 2021-03-26 (PCT/IB2021/000231)
[87] (WO2021/191688)
[30] US (63/000,998) 2020-03-27

[21] **3,173,159**
[13] A1

[51] **Int.Cl. G06F 21/00 (2013.01) G06F 21/60 (2013.01) G06F 21/62 (2013.01)**
[25] EN
[54] **INTEGRATION OF A BLOCK CHAIN, MANAGING GROUP AUTHORITY AND ACCESS IN AN ENTERPRISE ENVIRONMENT**
[54] **INTEGRATION D'UNE CHAINE DE BLOCS, GESTION D'AUTORITE DE GROUPE ET ACCES DANS UN ENVIRONNEMENT D'ENTREPRISE**
[72] MOORE, JONATHAN ANDREW CROCKETT, US
[71] SPIDEROAK, INC., US
[85] 2022-09-23
[86] 2021-03-23 (PCT/US2021/023633)
[87] (WO2021/195052)
[30] US (16/828,003) 2020-03-24

[21] **3,173,160**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING OCULAR DISEASE BY CONTACT LENS MEDIATED DRUG DELIVERY**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT D'UNE MALADIE OCULAIRE PAR ADMINISTRATION DE MEDICAMENT PAR L'INTERMEDIAIRE D'UNE LENTILLE DE CONTACT**
[72] MANN, BRENDA K., US
[72] STIRLAND, DARREN, US
[72] MANZO, MICHAEL, US
[72] SHEARDOWN, HEATHER, US
[72] RAMBARRAN, TALENA, US
[72] LIU, LINA, US
[71] KIORA PHARMACEUTICALS, INC., US
[85] 2022-09-23
[86] 2021-03-23 (PCT/US2021/023572)
[87] (WO2021/195016)
[30] US (62/994,456) 2020-03-25

Demandes PCT entrant en phase nationale

[21] **3,173,161**
[13] A1

[51] **Int.Cl. H01S 5/026 (2006.01) H01S 5/22 (2006.01)**
[25] EN
[54] **WIDELY TUNABLE, SINGLE MODE EMISSION SEMICONDUCTOR LASER**
[54] **LASER A SEMI-CONDUCTEURS A EMISSION MONOMODE LARGEMENT ACCORDABLE**
[72] KOSLOWSKI, TIM, DE
[72] KOETH, JOHANNES, DE
[72] KOSLOWSKI, NICOLAS, DE
[71] AUTOMOTIVE COALITION FOR TRAFFIC SAFETY, INC., US
[85] 2022-09-23
[86] 2021-04-05 (PCT/US2021/025771)
[87] (WO2021/203095)
[30] US (63/004,816) 2020-04-03

[21] **3,173,162**
[13] A1

[51] **Int.Cl. C07K 16/06 (2006.01)**
[25] EN
[54] **MULTISPECIFIC BINDING PROTEINS AND METHODS OF DEVELOPING THE SAME**
[54] **PROTEINES DE LIAISON MULTISPECIFIQUES ET LEURS PROCEDES DE DEVELOPPEMENT**
[72] CHAI, QING, US
[72] WU, XIUFENG, US
[71] ELI LILLY AND COMPANY, US
[85] 2022-09-23
[86] 2021-03-18 (PCT/US2021/022935)
[87] (WO2021/194839)
[30] US (62/994,509) 2020-03-25

[21] **3,173,163**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/609 (2006.01) A61K 45/06 (2006.01) A61K 47/34 (2017.01) A61P 11/00 (2006.01) A61P 31/04 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **TREATMENT**
[54] **TRAITEMENT**
[72] SOMMER, MORTEN, DK
[72] TOFT-KEHLER, RASMUS, DK
[72] TOFT-KEHLER, ANNE KATRINE, DK
[72] JELLINGSOE, MADS, DK
[72] ANDRES, PHILIPPE, DK
[71] UNION THERAPEUTICS A/S, DK
[85] 2022-09-23
[86] 2021-03-26 (PCT/EP2021/058046)
[87] (WO2021/198115)
[30] GB (2004844.3) 2020-04-01
[30] GB (2005340.1) 2020-04-09
[30] GB (2010575.5) 2020-07-09
[30] GB (2010573.0) 2020-07-09
[30] GB (2016274.9) 2020-10-14
[30] GB (2016289.7) 2020-10-14
[30] GB (2103957.3) 2021-03-22

[21] **3,173,164**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/55 (2006.01) A61K 31/56 (2006.01) A61K 31/573 (2006.01) A61K 38/13 (2006.01) A61K 47/02 (2006.01) A61K 47/36 (2006.01) A61P 27/04 (2006.01) A61P 27/06 (2006.01) A61P 27/08 (2006.01) A61P 27/10 (2006.01) A61P 27/12 (2006.01) A61P 27/14 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF OCULAR CONDITIONS**
[54] **COMPOSITIONS ET PROCEDES POUR LE TRAITEMENT D'ETATS OCULAIRES**
[72] MANN, BRENDA K., US
[72] LEE, HEE-KYOUNG, US
[71] KIORA PHARMACEUTICALS, INC., US
[85] 2022-09-23
[86] 2021-03-22 (PCT/US2021/023438)
[87] (WO2021/194948)
[30] US (62/993,384) 2020-03-23
[30] US (63/048,936) 2020-07-07

[21] **3,173,165**
[13] A1

[51] **Int.Cl. A47B 46/00 (2006.01) A47B 61/02 (2006.01)**
[25] EN
[54] **WARDROBE LIFT**
[54] **ELEVATEUR DE PENDERIE**
[72] TELTHORSTER, DIRK, DE
[72] REDIKOP, ANDREAS, DE
[72] BUSCHERMOHLE, HERMANN, DE
[71] KESSEBOHMER HOLDING KG, DE
[85] 2022-09-23
[86] 2021-02-25 (PCT/EP2021/054631)
[87] (WO2021/190850)
[30] DE (20 2020 101 657.1) 2020-03-27

[21] **3,173,166**
[13] A1

[51] **Int.Cl. B32B 7/12 (2006.01) B29C 48/16 (2019.01) B29C 48/32 (2019.01) B29C 49/08 (2006.01) B29C 55/12 (2006.01) B32B 7/06 (2019.01) B32B 27/08 (2006.01) B32B 27/36 (2006.01) B32B 27/40 (2006.01) B32B 37/12 (2006.01) B65D 65/40 (2006.01)**
[25] EN
[54] **MULTI-LAYER RESEALABLE TAMPER-EVIDENT FILM FOR PACKAGING**
[54] **FILM INVIOLENT LIBERABLE MULTICOUCHE POUR EMBALLAGE**
[72] SMITH, ELLEN S., US
[72] MIRMESDAGH, KASRA, US
[71] TERPHANE LLC, US
[71] BOSTIK, INC., US
[85] 2022-09-23
[86] 2021-04-14 (PCT/US2021/027172)
[87] (WO2021/211644)
[30] US (63/010,418) 2020-04-15

PCT Applications Entering the National Phase

[21] **3,173,167**
[13] A1

[51] **Int.Cl. C07G 1/00 (2011.01) C08H 7/00 (2011.01) C08L 97/00 (2006.01) C09D 197/00 (2006.01) C09J 197/00 (2006.01)**

[25] EN

[54] **LIGNIN CROSSLINKED WITH A POLYUNSATURATED COMPOUND**

[54] **LIGNINE RETICULEE AVEC UN COMPOSE POLYINSATURE**

[72] PIERROU, CLARA, SE

[72] OREBOM, ALEXANDER, SE

[72] OST, AMALIA, SE

[72] SAMEC, JOSEPH, SE

[71] REN FUEL K2B AB, SE

[85] 2022-09-23

[86] 2021-06-30 (PCT/EP2021/068103)

[87] (WO2022/003074)

[30] EP (20183390.2) 2020-07-01

[21] **3,173,168**
[13] A1

[51] **Int.Cl. H01M 4/04 (2006.01) H01M 4/134 (2010.01) H01M 4/1395 (2010.01) H01M 4/02 (2006.01) H01M 4/64 (2006.01) H01M 4/66 (2006.01)**

[25] FR

[54] **CURRENT COLLECTOR FOR SILICON ANODE**

[54] **COLLECTEUR DE COURANT POUR ANODE AU SILICIUM**

[72] BERTHOME, SIMON, FR

[72] GUICHARD, PIERRE, FR

[71] ARMOR, FR

[85] 2022-09-23

[86] 2021-03-31 (PCT/EP2021/058509)

[87] (WO2021/198373)

[30] FR (FR20 03233) 2020-04-01

[21] **3,173,169**
[13] A1

[51] **Int.Cl. G01J 5/80 (2022.01) G06V 10/25 (2022.01) G06V 40/10 (2022.01) G06V 40/16 (2022.01) G01J 5/70 (2022.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR THERMAL SCREENING**

[54] **SYSTEME ET PROCEDE DE DEPISTAGE THERMIQUE**

[72] BADALONE, RICCARDO, CA

[72] HAJI ABOLHASSANI, AMIR ABBAS, CA

[72] VARGAS MORENO, ALDO ENRIQUE, CA

[72] DUGUAY, FELIX-OLIVIER, CA

[72] FAROKHI, SOODEH, CA

[72] MAGNAN, FRANCOIS, CA

[72] ERFANI, MOSTAFA, CA

[71] C2RO CLOUD ROBOTICS INC., CA

[85] 2022-09-23

[86] 2022-03-09 (PCT/CA2022/050339)

[87] (WO2022/187952)

[30] US (63/158,585) 2021-03-09

[21] **3,173,171**
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G16B 30/10 (2019.01) G01N 33/569 (2006.01) G01N 33/574 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **BIOINFORMATICS**

[54] **BIOINFORMATIQUE**

[72] CERULLO, VINCENZO, FI

[72] CAPASSO, CRISTIAN, FI

[72] SIKANEN, TIINA, FI

[72] FEOLA, SARA, FI

[72] TAHKA, SARI, FI

[72] CHIARO, JACOPO, FI

[71] UNIVERSITY OF HELSINKI, FI

[85] 2022-09-23

[86] 2021-05-06 (PCT/EP2021/061981)

[87] (WO2021/224383)

[30] GB (2006760.9) 2020-05-07

[21] **3,173,172**
[13] A1

[51] **Int.Cl. A61K 31/55 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **CATHEPSIN INHIBITORS FOR PREVENTING OR TREATING VIRAL INFECTIONS**

[54] **INHIBITEURS DE CATHEPSINE POUR LA PREVENTION OU LE TRAITEMENT D'INFECTIONS VIRALES**

[72] KANE, CHRISTOPHER D., US

[72] SOLOVEVA, VERONICA, US

[72] BAVARI, SINA, US

[72] PEAT, ANDREW JAMES, US

[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB

[71] THE GOVERNMENT OF THE UNITED STATES, AS REPRESENTED BY THE SECRETARY OF THE ARMY, US

[71] THE HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE, INC., US

[85] 2022-09-23

[86] 2021-03-26 (PCT/IB2021/052548)

[87] (WO2021/191875)

[30] US (63/000,487) 2020-03-26

[21] **3,173,173**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING ATOPIC DERMATITIS BY ADMINISTERING AN IL-4R ANTAGONIST**

[54] **METHODES DE TRAITEMENT DE LA DERMATITE ATOPIQUE PAR ADMINISTRATION D'UN ANTAGONISTE DE L'IL-4R**

[72] BANSAL, ASHISH, US

[72] DAVIS, JOHN, US

[72] ECKERT, LAURENT, FR

[72] KAMAL, MOHAMED, US

[71] REGENERON PHARMACEUTICALS, INC., US

[71] SANOFI BIOTECHNOLOGY, FR

[85] 2022-09-23

[86] 2021-03-26 (PCT/US2021/024419)

[87] (WO2021/195530)

[30] US (63/001,224) 2020-03-27

[30] EP (21315010.5) 2021-01-28

Demandes PCT entrant en phase nationale

[21] **3,173,174**
[13] A1

[51] **Int.Cl. E01D 19/02 (2006.01) E01D 21/00 (2006.01)**
[25] EN
[54] **BRIDGE SUPPORT SYSTEM**
[54] **SYSTEME DE SUPPORT DE PONT**
[72] MILLER, BLAINE, US
[72] GOVONI, STEVEN C., US
[71] MILLER, BLAINE, US
[71] GOVONI, STEVEN C., US
[85] 2022-09-23
[86] 2021-05-21 (PCT/US2021/033675)
[87] (WO2021/237102)
[30] US (63/028,200) 2020-05-21

[21] **3,173,177**
[13] A1

[51] **Int.Cl. C12G 3/04 (2019.01) C12H 1/07 (2006.01)**
[25] EN
[54] **A PROCESS FOR THE PRODUCTION OF VODKA**
[54] **PROCESSUS DE PRODUCTION DE VODKA**
[72] SCHEFLER, YURI, CH
[71] ZHS IP EUROPE SARL, CH
[85] 2022-09-23
[86] 2021-03-22 (PCT/EP2021/057216)
[87] (WO2021/191127)
[30] EP (20165669.1) 2020-03-25

[21] **3,173,179**
[13] A1

[51] **Int.Cl. H04N 19/70 (2014.01) H04N 19/30 (2014.01)**
[25] EN
[54] **AN ENCODER, A DECODER AND CORRESPONDING METHODS**
[54] **CODEUR, DECODEUR ET PROCEDES CORRESPONDANTS**
[72] WANG, BIAO, DE
[72] ESENLIK, SEMIH, DE
[72] ALSHINA, ELENA
ALEXANDROVNA, DE
[72] KOTRA, ANAND MEHER, DE
[72] GAO, HAN, DE
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-09-23
[86] 2021-03-24 (PCT/CN2021/082540)
[87] (WO2021/190525)
[30] EP (PCT/EP2020/058208) 2020-03-24

[21] **3,173,175**
[13] A1

[51] **Int.Cl. C12N 9/00 (2006.01) C12Q 1/6855 (2018.01) C12N 15/52 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **ATP-DEPENDENT DNA LIGASE**
[54] **LIGASE D'ADN DEPENDANT DE L'ATP**
[72] KETELSEN STRIBERNY, BERND, NO
[72] SOLSTAD, TERESE, NO
[72] LANES, OLAV, NO
[71] ARCTICZYMES AS, NO
[85] 2022-09-23
[86] 2021-03-31 (PCT/EP2021/058452)
[87] (WO2021/198341)
[30] EP (20167251.6) 2020-03-31

[21] **3,173,178**
[13] A1

[51] **Int.Cl. C12N 7/02 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **STABLE CELL LINES FOR INDUCIBLE PRODUCTION OF RAAV VIRIONS**
[54] **LIGNEES CELLULAIRES STABLES POUR LA PRODUCTION INDUCTIBLE DE VIRIONS RAAV**
[72] PRENTICE, KENNETH, US
[72] PANDE, SANDHYA, US
[71] SHAPE THERAPEUTICS INC., US
[85] 2022-09-23
[86] 2021-07-30 (PCT/US2021/044071)
[87] (WO2022/026927)
[30] US (63/058,894) 2020-07-30
[30] US (63/216,615) 2021-06-30
[30] US (63/156,239) 2021-03-03
[30] US (63/156,230) 2021-03-03
[30] US (63/058,900) 2020-07-30
[30] US (63/058,887) 2020-07-30
[30] US (63/156,207) 2021-03-03

[21] **3,173,180**
[13] A1

[51] **Int.Cl. A24F 40/44 (2020.01) A24F 40/51 (2020.01) A24F 40/57 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] XIAO, MIKE, GB
[72] LEADLEY, DAVID, GB
[72] MOLONEY, PATRICK, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-09-10 (PCT/GB2021/052357)
[87] (WO2022/064173)
[30] GB (2014909.2) 2020-09-22
[30] GB (2014911.8) 2020-09-22
[30] GB (2014903.5) 2020-09-22
[30] GB (2014910.0) 2020-09-22

[21] **3,173,176**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTI-TUMOR ASSOCIATED ANTIGEN ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-TUMEUR ASSOCIES A L'ANTIGENE ET LEURS UTILISATIONS**
[72] WU, HUIWEN, US
[72] JIA, HAIQUN, US
[72] ZOU, HUI, US
[72] WANG, MINGHAN, US
[71] PHANES THERAPEUTICS, INC., US
[85] 2022-09-23
[86] 2021-05-06 (PCT/US2021/031055)
[87] (WO2021/226321)
[30] US (63/021,215) 2020-05-07
[30] US (63/198,420) 2020-10-16
[30] US (62/706,131) 2020-08-03
[30] US (63/131,394) 2020-12-29

PCT Applications Entering the National Phase

[21] **3,173,181**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 48/00 (2006.01) A61P 25/08 (2006.01) C07K 14/47 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **ACTIVITY-DEPENDENT GENE THERAPY FOR NEUROLOGICAL DISORDERS**

[54] **THERAPIE GENIQUE DEPENDANTE DE L'ACTIVITE POUR TROUBLES NEUROLOGIQUES**

[72] LIGNANI, GABRIELE, GB

[72] KULLMANN, DIMITRI MICHAEL, GB

[72] SCHORGE, STEPHANIE, GB

[72] QIU, YICHEN, GB

[72] WALKER, MATTHEW CHARLES, GB

[71] UCL BUSINESS LTD., GB

[85] 2022-09-23

[86] 2021-03-29 (PCT/EP2021/058210)

[87] (WO2021/191474)

[30] GB (2004498.8) 2020-03-27

[21] **3,173,182**
[13] A1

[51] **Int.Cl. A61M 1/06 (2006.01)**

[25] EN

[54] **WEARABLE BREAST PUMP SYSTEM**

[54] **SYSTEME DE TIRE-LAIT A PORTER SUR SOI**

[72] DE BECDELIEVRE, THIBAUT, GB

[72] BLANCHARD, OLIVER, GB

[72] THOMAS, GEORGIA, GB

[72] THOMPSON, DANIEL JOHN, GB

[72] ROLLO, ADAM, GB

[72] REID, PAUL, GB

[72] O'TOOLE, JONATHAN, GB

[72] BILTCLIFFE, JACK, GB

[72] ROSS, CLARE, GB

[72] BRUEN, CLAUDIA, GB

[71] CHIARO TECHNOLOGY LIMITED, GB

[85] 2022-09-23

[86] 2021-03-26 (PCT/GB2021/050764)

[87] (WO2021/191637)

[30] GB (2004395.6) 2020-03-26

[21] **3,173,183**
[13] A1

[51] **Int.Cl. G21G 1/02 (2006.01)**

[25] EN

[54] **INSTALLATION AND METHOD FOR PRODUCING ACTIVATED IRRADIATION TARGETS IN AN INSTRUMENTATION TUBE SYSTEM OF A NUCLEAR REACTOR**

[54] **INSTALLATION ET PROCEDE DE FABRICATION DE CIBLES D'IRRADIATION ACTIVEES DANS UN SYSTEME DE TUBE D'INSTRUMENTATION D'UN REACTEUR NUCLEAIRE**

[72] RICHTER, THOMAS FABIAN, DE

[72] SYKORA, ALEXANDER, DE

[72] ZEHNDER, JULIA, DE

[72] ROSENBERGER, CHANTAL, DE

[72] KANWISCHER, WILFRIED, DE

[71] FRAMATOME GMBH, DE

[85] 2022-09-23

[86] 2020-05-20 (PCT/EP2020/064186)

[87] (WO2021/233545)

[21] **3,173,184**
[13] A1

[51] **Int.Cl. C07K 14/405 (2006.01) C12N 1/20 (2006.01) C12N 9/02 (2006.01) C12N 15/52 (2006.01) C12N 15/70 (2006.01) C12P 1/00 (2006.01) C12P 1/04 (2006.01) C12P 3/00 (2006.01) H01M 8/16 (2006.01)**

[25] EN

[54] **RECOMBINANT MICROORGANISMS AND PROCESS**

[54] **MICRO-ORGANISMES RECOMBINES ET PROCEDE**

[72] WILLOWS, ROBERT, AU

[72] BROWN, LOUISE, AU

[72] CURACH, NATALIE, AU

[72] JERKOVIC, ANTE, AU

[72] PETROLL, KERSTIN, AU

[72] JOHNS, JOCELYN, AU

[72] KING, SAMUEL, AU

[72] EDMONDS, ARI, AU

[71] MACQUARIE UNIVERSITY, AU

[85] 2022-09-23

[86] 2021-03-31 (PCT/AU2021/050290)

[87] (WO2021/195705)

[30] AU (2020900990) 2020-03-31

[21] **3,173,185**
[13] A1

[51] **Int.Cl. G08B 21/04 (2006.01)**

[25] EN

[54] **MOBILE BASE, SYSTEM AND METHOD FOR SUPERVISION OF A MOBILE OBJECT**

[54] **BASE MOBILE, SYSTEME ET PROCEDE DE SUPERVISION D'UN OBJET MOBILE**

[72] BAKKE, RONNY, NO

[71] DIMEQ AS, NO

[85] 2022-09-23

[86] 2021-03-23 (PCT/NO2021/050073)

[87] (WO2021/194347)

[30] NO (20200350) 2020-03-24

[21] **3,173,186**
[13] A1

[51] **Int.Cl. C08G 73/02 (2006.01) D21H 17/55 (2006.01) D21H 21/20 (2006.01)**

[25] EN

[54] **PROCESS FOR MANUFACTURING WET STRENGTH RESINS**

[54] **PROCEDE DE FABRICATION DE RESINES RESISTANTES A L'ETAT HUMIDE**

[72] DE SEQUERA, XAVIER, ES

[72] HESAMPOUR, MEHRDAD, FI

[72] TARAZONA, JUDITH, ES

[71] KEMIRA OYJ, FI

[85] 2022-09-23

[86] 2021-04-29 (PCT/FI2021/050319)

[87] (WO2021/219941)

[30] FI (20205441) 2020-04-30

Demandes PCT entrant en phase nationale

[21] **3,173,187**
[13] A1

[51] **Int.Cl. A61K 31/195 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **METHODS FOR TREATMENT OF CORONAVIRUS INFECTIONS**
[54] **METHODE DE TRAITEMENT D'UNE INFECTION A CORONAVIRUS**
[72] TRIPP, RALPH A., US
[72] MURRAY, JACKELYN, US
[72] HOGAN, ROBERT JEFF, US
[71] UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., US
[85] 2022-09-23
[86] 2021-04-09 (PCT/US2021/026588)
[87] (WO2021/207606)
[30] US (63/008,624) 2020-04-10
[30] US (63/023,021) 2020-05-11
[30] US (16/875,487) 2020-05-15
[30] EP (20202059.0) 2020-10-15
[30] US (63/151,551) 2021-02-19

[21] **3,173,188**
[13] A1

[51] **Int.Cl. B65D 1/00 (2006.01) B65D 65/34 (2006.01) B65D 81/24 (2006.01) B65D 85/52 (2006.01)**
[25] EN
[54] **PACKAGING AND METHOD FOR PLANT MATTER**
[54] **EMBALLAGE ET PROCEDE POUR MATIERE VEGETALE**
[72] QUINTERO, WILSON, US
[71] VIRGIN FRUIT, INC., US
[85] 2022-09-23
[86] 2021-03-22 (PCT/US2021/023519)
[87] (WO2021/194988)
[30] US (62/993,574) 2020-03-23

[21] **3,173,189**
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01)**
[25] EN
[54] **INTERNAL STANDARD FOR CRISPR GUIDE RNA**
[54] **NORME INTERNE POUR ARN GUIDE DE CRISPR**
[72] ELLING, ULRICH, AT
[72] SELL, ANNIKA, DK
[72] UIJTTEWAAL, ESTHER C.H., AT
[71] IMBA - INSTITUT FUER MOLEKULARE BIOTECHNOLOGIE GMBH, AT
[85] 2022-09-23
[86] 2021-03-30 (PCT/EP2021/058255)
[87] (WO2021/198233)
[30] EP (20166567.6) 2020-03-30

[21] **3,173,190**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) G16H 50/30 (2018.01) G16B 30/00 (2019.01)**
[25] EN
[54] **ASSAYS FOR DETECTING PATHOGENS**
[54] **DOSAGES POUR LA DETECTION D'AGENTS PATHOGENES**
[72] SANTOS, CARLOS F., US
[72] STATES, DAVID J., US
[72] FELDMANN, JONATHAN P., US
[72] MORAN, JOSUE D., US
[71] ANGSTROM BIO, INC., US
[85] 2022-09-23
[86] 2021-03-24 (PCT/IB2021/052463)
[87] (WO2021/191829)
[30] US (62/994,173) 2020-03-24

[21] **3,173,192**
[13] A1

[51] **Int.Cl. A61B 5/145 (2006.01) G10L 25/48 (2013.01) G16H 50/20 (2018.01) G16H 50/50 (2018.01) A61B 5/00 (2006.01) H04M 3/56 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES AND METHODS FOR BLOOD GLUCOSE MONITORING USING VOICE**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE SURVEILLANCE DE LA GLYCEMIE A L'AIDE DE LA VOIX**
[72] FOSSAT, YAN, CA
[72] JEON, JOUHYUN, CA
[71] KLINK INC., CA
[85] 2022-09-23
[86] 2021-09-27 (PCT/CA2021/051340)
[87] (WO2022/109713)
[30] US (63/119,103) 2020-11-30

[21] **3,173,193**
[13] A1

[51] **Int.Cl. H02J 3/14 (2006.01)**
[25] EN
[54] **LOAD RE-BALANCING ON A MULTI-PHASE POWER SYSTEM**
[54] **REEQUILIBRAGE DE CHARGE SUR UN SYSTEME ELECTRIQUE POLYPHASE**
[72] FLANNERY, PATRICK S., US
[72] MCFETRIDGE, ROBERT, US
[71] AMERICAN SUPERCONDUCTOR CORPORATION, US
[85] 2022-09-23
[86] 2021-04-23 (PCT/US2021/028789)
[87] (WO2021/225799)
[30] US (16/865,961) 2020-05-04

[21] **3,173,194**
[13] A1

[51] **Int.Cl. A01N 25/34 (2006.01) A01N 37/46 (2006.01) A01P 1/00 (2006.01) C07K 7/06 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL PEPTIDES**
[54] **PEPTIDES ANTIMICROBIENS**
[72] PALMIERI, GIANNA, IT
[72] BALESTRIERI, MARCO, IT
[72] NICOLAIS, LUIGI, IT
[71] MATERIAS S.R.L., IT
[85] 2022-09-23
[86] 2021-03-26 (PCT/IB2021/052519)
[87] (WO2021/191851)
[30] IT (102020000006511) 2020-03-27

[21] **3,173,195**
[13] A1

[51] **Int.Cl. A61B 17/02 (2006.01) A61B 18/00 (2006.01) A61B 18/14 (2006.01) A61N 5/06 (2006.01) A61N 5/067 (2006.01)**
[25] EN
[54] **THERAPEUTIC LIGHTING DEVICES AND METHODS**
[54] **DISPOSITIFS ET PROCEDES D'ECLAIRAGE THERAPEUTIQUE**
[72] SILVER, MIKIYA, US
[72] KLEYMAN, GENNADY, US
[72] PATHY, VINOD V., US
[71] PATHY MEDICAL, LLC, US
[85] 2022-09-23
[86] 2021-04-13 (PCT/US2021/027002)
[87] (WO2021/211526)
[30] US (63/010,950) 2020-04-16
[30] US (17/228,292) 2021-04-12

PCT Applications Entering the National Phase

[21] **3,173,196**
[13] A1

[51] **Int.Cl. C04B 28/00 (2006.01) C04B 40/06 (2006.01)**
[25] EN
[54] **MULTI-COMPONENT INORGANIC CAPSULE ANCHORING SYSTEM BASED ON GROUND-GRANULATED BLAST-FURNACE SLAG**
[54] **SYSTEME D'ANCRAGE A CAPSULE INORGANIQUE A CONSTITUANTS MULTIPLES A BASE DE LAITIER DE HAUT FOURNEAU GRANULE ET BROYE**
[72] WHITTAKER, MARK, DE
[72] SCHONLEIN, MARKUS, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2022-09-23
[86] 2021-05-06 (PCT/EP2021/062013)
[87] (WO2021/228684)
[30] EP (20174879.5) 2020-05-15
[30] EP (20174882.9) 2020-05-15
[30] EP (20174887.8) 2020-05-15

[21] **3,173,197**
[13] A1

[51] **Int.Cl. B63B 27/30 (2006.01) B67D 9/02 (2010.01) B63B 21/16 (2006.01) B63B 27/25 (2006.01)**
[25] EN
[54] **MULTIDIRECTIONAL TURRET LOADING SYSTEM FOR LOADING/UNLOADING OF FLUID BETWEEN AN OFFSHORE INSTALLATION AND A VESSEL**
[54] **SYSTEME DE CHARGEMENT DE TOURELLE MULTIDIRECTIONNEL POUR CHARGER/DECHARGER UN FLUIDE ENTRE UNE INSTALLATION EN MER ET UN NAVIRE**
[72] DUNSETH, ERIK, NO
[71] APL NORWAY AS, NO
[85] 2022-09-23
[86] 2021-03-26 (PCT/NO2021/050084)
[87] (WO2021/201688)
[30] NO (20200402) 2020-04-02

[21] **3,173,198**
[13] A1

[51] **Int.Cl. E04B 1/38 (2006.01)**
[25] EN
[54] **TWO-PART CLAMPING BUILDING SUPPORT HANGER**
[54] **DISPOSITIF DE SUSPENSION D'UN SUPPORT DE CONSTRUCTION A SERRAGE EN DEUX PARTIES**
[72] CARLSON, LOGAN, US
[72] DEZIELLE, JONATHAN W., US
[72] KRAUCUNAS, MITCHELL T., US
[72] DISANTO, ANTHONY, US
[72] GILLIS, TIMOTHY F., US
[71] OMG, INC., US
[85] 2022-09-23
[86] 2021-04-14 (PCT/US2021/027251)
[87] (WO2021/211693)
[30] US (63/009,494) 2020-04-14

[21] **3,173,199**
[13] A1

[51] **Int.Cl. A01N 25/34 (2006.01) A01N 37/46 (2006.01) A47G 19/22 (2006.01) C07K 7/06 (2006.01) C09D 5/14 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL TUBULAR CONDUITS**
[54] **CONDUITS TUBULAIRES ANTIMICROBIENS**
[72] CAMMARANO, ANIELLO, IT
[72] NICOLAIS, LUIGI, IT
[71] SANIDRINK S.R.L., IT
[85] 2022-09-23
[86] 2021-03-26 (PCT/IB2021/052520)
[87] (WO2021/191852)
[30] IT (102020000006481) 2020-03-27

[21] **3,173,200**
[13] A1

[51] **Int.Cl. C04B 28/08 (2006.01)**
[25] EN
[54] **METHOD FOR THE CONTROL OF VOLUME EXPANSION OF HYDRAULICALLY SETTING COMPOSITIONS COMPRISING STEEL MAKING SLAG**
[54] **PROCEDE DE REGULATION DE L'EXPANSION VOLUMIQUE DE COMPOSITIONS A PRISE HYDRAULIQUE COMPRENANT DU LAITIER DE FABRICATION D'ACIER**
[72] SOUDIER, JEROME, FR
[72] BEN HARRATH, ALEXANDRE, FR
[71] SIKA TECHNOLOGY AG, CH
[85] 2022-09-23
[86] 2021-03-18 (PCT/EP2021/056978)
[87] (WO2021/197866)
[30] EP (20315101.4) 2020-04-02

[21] **3,173,201**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 19/00 (2006.01) A61P 19/08 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **ANTIBODIES BINDING SIGLEC15 AND USES THEREOF**
[54] **ANTICORPS SE LIANT A SIGLEC15 ET LEURS UTILISATIONS**
[72] CHEN, MINGJIU, CN
[72] XIA, SHUKAI, CN
[71] BIOSION INC., CN
[85] 2022-09-23
[86] 2021-03-26 (PCT/CN2021/083194)
[87] (WO2021/190622)
[30] US (63/000,566) 2020-03-27

Demandes PCT entrant en phase nationale

[21] **3,173,202**
[13] A1
[51] **Int.Cl. A63H 3/06 (2006.01) A63H 3/50 (2006.01) A63H 27/10 (2006.01)**
[25] EN
[54] **A REUSABLE, ANCHORABLE ORNAMENTAL BALLOON STRUCTURE**
[54] **STRUCTURE DE BALLON DECORATIVE, ANCRABLE ET REUTILISABLE**
[72] SIFFERLIN, MARK S., US
[72] SABLE, PAUL J., US
[71] ANAGRAM INTERNATIONAL, INC., US
[85] 2022-09-23
[86] 2021-02-24 (PCT/US2021/019365)
[87] (WO2021/194678)
[30] US (16/828,151) 2020-03-24

[21] **3,173,203**
[13] A1
[51] **Int.Cl. B01J 8/04 (2006.01) B01J 19/24 (2006.01) C10G 35/04 (2006.01) C10G 35/24 (2006.01)**
[25] EN
[54] **PROCESSES FOR CHANGING CATALYTIC ACTIVITY IN A RADIAL FLOW REFORMING REACTOR**
[54] **PROCEDES POUR CHANGER L'ACTIVITE CATALYTIQUE DANS UN REACTEUR DE REFORMAGE A ECOULEMENT RADIAL**
[72] AVAIS, FARIHA, US
[72] WOODLE, GUY B., US
[71] UOP LLC, US
[85] 2022-09-23
[86] 2021-03-25 (PCT/US2021/024036)
[87] (WO2021/206916)
[30] US (63/006,374) 2020-04-07

[21] **3,173,204**
[13] A1
[51] **Int.Cl. G06Q 20/34 (2012.01) G06Q 20/32 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **TECHNIQUES TO STORE AND PROCESS DATA FOR TRANSACTION ATTEMPTS BY TRANSACTION CARDS**
[54] **TECHNIQUES POUR STOCKER ET TRAITER DES DONNEES POUR DES TENTATIVES DE TRANSACTION PAR DES CARTES DE TRANSACTION**
[72] RULE, JEFFREY, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-09-23
[86] 2021-04-29 (PCT/US2021/029881)
[87] (WO2021/222555)
[30] US (16/863,437) 2020-04-30

[21] **3,173,205**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/02 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **HUMAN ANTI-CD33 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-CD33 HUMAINS ET LEURS UTILISATIONS**
[72] WALTER, ROLAND B., US
[72] LASZLO, GEORGE S., US
[71] FRED HUTCHINSON CANCER CENTER, US
[85] 2022-09-23
[86] 2021-03-31 (PCT/US2021/025220)
[87] (WO2021/202770)
[30] US (63/003,203) 2020-03-31

[21] **3,173,206**
[13] A1
[51] **Int.Cl. G06F 21/50 (2013.01) G06F 21/55 (2013.01) G06F 21/60 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUTOMATED SENSITIVE INFORMATION DISCOVERY, MONITORING AND REMEDIATION**
[54] **SYSTEME ET PROCEDE DE DECOUVERTE DE SURVEILLANCE ET DE REPARATION D'INFORMATIONS SENSIBLES AUTOMATISEES**
[72] CROTEAU, DAVID, CA
[72] BERTHIAUME, NICOLAS, CA
[72] BOURGAULT, JORDAN, CA
[72] FORTIN, MICHAEL, CA
[71] GROUPE ELUCIDIA INC., CA
[85] 2022-09-23
[86] 2021-03-26 (PCT/CA2021/050400)
[87] (WO2021/189152)
[30] US (63/000,238) 2020-03-26

[21] **3,173,207**
[13] A1
[51] **Int.Cl. A61K 38/46 (2006.01)**
[25] EN
[54] **ADENO-ASSOCIATED VIRUS COMPOSITIONS FOR IDS GENE TRANSFER AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS DE VIRUS ADENO-ASSOCIES POUR LE TRANSFERT DE GENES IDS ET LEURS PROCEDES D'UTILISATION**
[72] GINGRAS, JACINTHE, US
[72] PATEL, KRUTI, US
[72] SMITH, LAURA JANE, US
[72] WHITE, YVONNE, US
[72] DOLLIVE, SERENA NICOLE, US
[72] VAN LIESHOUT, LAURA, US
[72] BURNHAM, BRENDA, US
[71] HOMOLOGY MEDICINES, INC., US
[85] 2022-09-23
[86] 2021-04-05 (PCT/US2021/025785)
[87] (WO2021/207077)
[30] US (63/005,833) 2020-04-06
[30] US (63/094,800) 2020-10-21
[30] US (63/145,258) 2021-02-03

PCT Applications Entering the National Phase

[21] **3,173,208**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **ENGINEERED ANTIBODIES THAT BIND LAGS**

[54] **ANTICORPS MODIFIES QUI SE LIENT AUX LAGS**

[72] BRESSON, DAMIEN, US

[72] KIM, MIN SOO, US

[72] ZHOU, HEYUE, US

[72] GRAY, JOHN DIXON, US

[72] SWANSON, BARBARA A., US

[72] SINGH, ALOK, US

[72] KERWIN, LISA DIANE, US

[71] SORRENTO THERAPEUTICS, INC., US

[85] 2022-09-23

[86] 2021-04-01 (PCT/US2021/025423)

[87] (WO2021/202904)

[30] US (63/004,798) 2020-04-03

[21] **3,173,210**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **CHIMERIC ANTIGEN RECEPTORS TARGETING CD33**

[54] **RECEPTEURS ANTIGENIQUES CHIMERIQUES CIBLANT CD33**

[72] TURTLE, CAMERON J., US

[72] WALTER, ROLAND B., US

[72] LASZLO, GEORGE S., US

[72] FIORENZA, SALVATORE, US

[71] FRED HUTCHINSON CANCER CENTER, US

[85] 2022-09-23

[86] 2021-03-31 (PCT/US2021/025248)

[87] (WO2021/202793)

[30] US (63/003,213) 2020-03-31

[21] **3,173,211**
[13] A1

[51] **Int.Cl. B63H 9/04 (2020.01) B63H 9/061 (2020.01)**

[25] EN

[54] **DEVICE AS PRECEDING PROPULSION UNIT FOR A WATERCRAFT**

[54] **DISPOSITIF EN TANT QU'UNITE DE PROPULSION PRECEDENTE POUR UNE EMBARCATION**

[72] KREFT, GUNTER, DE

[71] KREFT, GUNTER, DE

[85] 2022-09-23

[86] 2021-03-23 (PCT/DE2021/000055)

[87] (WO2021/197527)

[30] DE (10 2020 002 026.7) 2020-03-28

[21] **3,173,212**
[13] A1

[51] **Int.Cl. A61M 16/16 (2006.01)**

[25] EN

[54] **RESPIRATORY OR SURGICAL HUMIDIFIER AND METHOD OF USE**

[54] **HUMIDIFICATEUR RESPIRATOIRE OU CHIRURGICAL ET PROCEDE D'UTILISATION**

[72] LIANG, WENJIE ROBIN, NZ

[72] YU, YINTAO, NZ

[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ

[85] 2022-09-23

[86] 2021-04-28 (PCT/NZ2021/050073)

[87] (WO2021/221517)

[30] US (63/017,455) 2020-04-29

[21] **3,173,213**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ANTI-CD33 ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS ANTI-CD33 ET LEURS UTILISATIONS**

[72] WALTER, ROLAND B., US

[72] LASZLO, GEORGE S., US

[71] FRED HUTCHINSON CANCER CENTER, US

[85] 2022-09-23

[86] 2021-03-31 (PCT/US2021/025166)

[87] (WO2021/202726)

[30] US (63/003,219) 2020-03-31

[21] **3,173,214**
[13] A1

[51] **Int.Cl. F04B 49/02 (2006.01)**

[25] EN

[54] **PUMPING SYSTEM HAVING REMOTE VALVE BLOCKS**

[54] **SYSTEME DE POMPAGE AYANT DES BLOCS VANNES DISTANTS**

[72] KUMAR, CHANDU, US

[72] MCCRADY, JOHN, US

[72] SUTTON, JOE ALLEN, US

[72] CLARK, WESLEY P., US

[72] PEER, RICHARD, US

[71] SPM OIL & GAS INC., US

[85] 2022-09-23

[86] 2021-04-12 (PCT/US2021/026898)

[87] (WO2021/211463)

[30] US (63/009,348) 2020-04-13

[21] **3,173,215**
[13] A1

[51] **Int.Cl. A61B 90/40 (2016.01)**

[25] EN

[54] **NEGATIVE PRESSURE AEROSOLIZATION MITIGATION DEVICES AND METHODS**

[54] **DISPOSITIFS ET METHODES D'ATTENUATION D'AEROSOLISATION A PRESSION NEGATIVE**

[72] STAAB, JARED, US

[72] BARTA, BRENT, US

[72] FLYNN, BRIGID, US

[72] KRAUSE, TIM, US

[72] NACHTIGAL, JAY, US

[71] THE UNIVERSITY OF KANSAS, US

[85] 2022-09-23

[86] 2021-03-31 (PCT/US2021/025160)

[87] (WO2021/202721)

[30] US (63/004,944) 2020-04-03

Demandes PCT entrant en phase nationale

[21] **3,173,216**
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) A61P 31/12 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING HYPERINFLAMMATION USING MESENCHYMAL LINEAGE PRECURSOR OR STEM CELLS**
[54] **PROCEDE DE TRAITEMENT D'UNE HYPERINFLAMMATION A L'AIDE D'UN PRECURSEUR DE LIGNEE MESENCHYMATEUSE OU DE CELLULES SOUCHES**
[72] ITESCU, SILVIU, AU
[71] MESOBLAST INTERNATIONAL SARL, CH
[85] 2022-09-23
[86] 2021-04-01 (PCT/EP2021/058683)
[87] (WO2021/198454)
[30] AU (2020901052) 2020-04-03
[30] AU (2020901124) 2020-04-08
[30] AU (2020902312) 2020-07-06
[30] AU (2020902425) 2020-07-14
[30] AU (2020903041) 2020-08-25
[30] AU (2020903694) 2020-10-12
[30] AU (2020904312) 2020-11-23

[21] **3,173,217**
[13] A1

[51] **Int.Cl. D21C 11/12 (2006.01)**
[25] EN
[54] **RECOVERY BOILER STARTUP BURNER ASSEMBLY**
[54] **ENSEMBLE BRULEUR DE DEMARRAGE DE CHAUDIERE DE RECUPERATION**
[72] IMIG, GREGORY ALAN, US
[71] ANDRITZ INC., US
[85] 2022-09-23
[86] 2021-04-14 (PCT/US2021/027186)
[87] (WO2021/211654)
[30] US (63/009,689) 2020-04-14

[21] **3,173,218**
[13] A1

[51] **Int.Cl. A24F 40/48 (2020.01)**
[25] EN
[54] **DEVICE WITH DRIVE ASSEMBLY FOR AN AEROSOL PROVISION SYSTEM**
[54] **DISPOSITIF DOTE D'UN ENSEMBLE D'ENTRAINEMENT POUR SYSTEME DE DISTRIBUTION D'AEROSOL**
[72] CHAN, JUSTIN HAN YANG, GB
[72] MOLONEY, PATRICK, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-08-31 (PCT/GB2021/052251)
[87] (WO2022/053780)
[30] GB (2014416.8) 2020-09-14

[21] **3,173,219**
[13] A1

[51] **Int.Cl. A61K 9/107 (2006.01) A61K 31/728 (2006.01) A61K 36/47 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61K 47/44 (2017.01) A61P 27/04 (2006.01)**
[25] EN
[54] **OPHTHALMIC FORMULATION AND ITS USE**
[54] **FORMULATION OPHTHALMIQUE ET SON UTILISATION**
[72] LAIHIA, JARMO, FI
[71] OY FINNSUSP AB, FI
[85] 2022-09-23
[86] 2021-03-30 (PCT/EP2021/058220)
[87] (WO2021/198212)
[30] EP (20167272.2) 2020-03-31

[21] **3,173,220**
[13] A1

[51] **Int.Cl. A61M 16/16 (2006.01)**
[25] EN
[54] **OVER-ENTHALPY PROTECTION IN HUMIDIFIER SYSTEMS**
[54] **PROTECTION CONTRE LA SURENTHALPIE DANS DES SYSTEMES D'HUMIDIFICATEUR**
[72] YU, YINTAO, NZ
[72] LIANG, WENJIE ROBIN, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[85] 2022-09-23
[86] 2021-08-13 (PCT/IB2021/057457)
[87] (WO2022/043814)
[30] US (63/069,483) 2020-08-24

[21] **3,173,221**
[13] A1

[51] **Int.Cl. A61L 2/00 (2006.01) A61M 16/00 (2006.01) A61M 16/04 (2006.01) A61M 16/06 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR APPLYING THERAPEUTIC LIGHT TO REDUCE HAZARD TO HEALTH CARE PROVIDERS OF CONTRACTING INFECTIOUS DISEASE**
[54] **DISPOSITIFS ET PROCEDES D'APPLICATION D'UNE LUMIERE THERAPEUTIQUE POUR REDUIRE LE RISQUE DE CONTRACTER UNE MALADIE INFECTIEUSE POUR DU PERSONNEL SOIGNANT**
[72] SILVER, MIKIYA, US
[72] KLEYMAN, GENNADY, US
[72] PATHY, VINOD V., US
[71] PATHY MEDICAL, INC., US
[85] 2022-09-23
[86] 2021-05-18 (PCT/US2021/032955)
[87] (WO2021/236635)
[30] US (63/026,319) 2020-05-18
[30] US (17/323,155) 2021-05-18

[21] **3,173,222**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/42 (2020.01) A61M 11/04 (2006.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'AEROSOL**
[72] NELSON, DAVID ALAN, GB
[72] HUGHES, STEVE, GB
[72] STANIFORTH, MARTYN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-07-09 (PCT/GB2021/051770)
[87] (WO2022/018402)
[30] GB (2011519.2) 2020-07-24

PCT Applications Entering the National Phase

[21] **3,173,223**
[13] A1

[51] **Int.Cl. E21B 23/04 (2006.01)**
[25] EN
[54] **HYRAULICALLY LOCKED TOOL**
[54] **OUTIL A VERROUILLAGE**
HYDRAULIQUE
[72] SOLEM, JONAS, DK
[71] ODFJELL PARTNERS INVEST LTD,
NO
[85] 2022-09-23
[86] 2020-04-03 (PCT/EP2020/059639)
[87] (WO2021/197625)

[21] **3,173,225**
[13] A1

[51] **Int.Cl. A24F 40/46 (2020.01) A24F**
40/51 (2020.01) A24F 40/57 (2020.01)
A61M 11/04 (2006.01)
[25] EN
[54] **AEROSOL GENERATOR FOR AN**
ELECTRONIC AEROSOL
PROVISION SYSTEM
[54] **GENERATEUR D'AEROSOL POUR**
UN SYSTEME ELECTRONIQUE
DE FOURNITURE D'AEROSOL
[72] LEADLEY, DAVID, GB
[71] NICOVENTURES TRADING
LIMITED, GB
[85] 2022-09-23
[86] 2021-09-01 (PCT/GB2021/052257)
[87] (WO2022/053782)
[30] GB (2014422.6) 2020-09-14

[21] **3,173,227**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) A24F**
40/60 (2020.01) A24F 40/65 (2020.01)
[25] EN
[54] **USER FEEDBACK SYSTEM AND**
METHOD
[54] **SYSTEME ET PROCEDE DE**
RETROACTION D'UTILISATEUR
[72] MOLONEY, PATRICK, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ,
GB
[72] CHAN, JUSTIN HAN YANG, GB
[72] BALAN, CATALIN MIHAI, GB
[72] HODGSON, MATTHEW, GB
[72] ROUGHLEY, HOWARD, GB
[72] NANDRA, CHARANJIT, GB
[72] KARLIDAG, GULBEN, GB
[72] MACCI, FLAVIO, GB
[71] NICOVENTURES TRADING
LIMITED, GB
[85] 2022-09-23
[86] 2021-06-10 (PCT/GB2021/051443)
[87] (WO2021/260342)
[30] GB (2009478.5) 2020-06-22

[21] **3,173,229**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) A24F**
40/60 (2020.01) A24F 40/65 (2020.01)
[25] EN
[54] **USER FEEDBACK SYSTEM AND**
METHOD
[54] **SYSTEME ET PROCEDE DE**
RETROACTION D'UTILISATEUR
[72] MOLONEY, PATRICK, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ,
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[72] CHAN, JUSTIN HAN YANG, GB
[72] BALAN, CATALIN MIHAI, GB
[72] KARLIDAG, GULBEN, GB
[72] NANDRA, CHARANJIT, GB
[72] HODGSON, MATTHEW, GB
[72] MACCI, FLAVIO, GB
[71] NICOVENTURES TRADING
LIMITED, GB
[85] 2022-09-23
[86] 2021-06-09 (PCT/GB2021/051429)
[87] (WO2021/260341)
[30] GB (2009480.1) 2020-06-22

[21] **3,173,230**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) A24F**
40/60 (2020.01) A24F 40/65 (2020.01)
[25] EN
[54] **USER FEEDBACK SYSTEM AND**
METHOD
[54] **SYSTEME ET PROCEDE DE**
RETOUR D'UTILISATEUR
[72] MOLONEY, PATRICK, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ,
GB
[72] CHAN, JUSTIN HAN YANG, GB
[72] BALAN, CATALIN MIHAI, GB
[72] KUENZEL, JOHANNA, GB
[72] MACCI, FLAVIO, GB
[71] NICOVENTURES TRADING
LIMITED, GB
[85] 2022-09-23
[86] 2021-06-10 (PCT/GB2021/051444)
[87] (WO2021/260343)
[30] GB (2009481.9) 2020-06-22

[21] **3,173,231**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) A24F**
40/60 (2020.01) A24F 40/65 (2020.01)
[25] EN
[54] **USER FEEDBACK SYSTEM AND**
METHOD
[54] **SYSTEME ET PROCEDE DE**
RETROACTION D'UTILISATEUR
[72] MOLONEY, PATRICK, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ,
GB
[72] CHAN, JUSTIN HAN YANG, GB
[72] BALAN, CATALIN MIHAI, GB
[72] KUENZEL, JOHANNA, GB
[72] TURAKULOV, LAZIZ, GB
[72] KARLIDAG, GULBEN, GB
[72] MACCI, FLAVIO, GB
[71] NICOVENTURES TRADING
LIMITED, GB
[85] 2022-09-23
[86] 2021-06-14 (PCT/GB2021/051471)
[87] (WO2021/260344)
[30] GB (2009482.7) 2020-06-22

[21] **3,173,232**
[13] A1

[51] **Int.Cl. G08G 1/16 (2006.01)**
[25] EN
[54] **OBJECT PROXIMITY**
DETECTION AND FEEDBACK
SYSTEM FOR A MINING
MACHINE
[54] **SYSTEME DE DETECTION ET DE**
RETROACTION DE PROXIMITE
D'OBJET POUR UNE MACHINE
D'EXPLOITATION MINIERE
[72] TAYLOR, WESLEY P., US
[72] REILAND, MATTHEW, US
[72] MALEGAM, KESHAD D., US
[71] JOY GLOBAL SURFACE MINING
INC, US
[85] 2022-09-23
[86] 2021-10-13 (PCT/US2021/054830)
[87] (WO2022/081744)
[30] US (63/090,899) 2020-10-13

Demandes PCT entrant en phase nationale

[21] **3,173,233**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) A24F 40/60 (2020.01) A24F 40/65 (2020.01)**
[25] EN
[54] **USER FEEDBACK SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE RETROACTION D'UTILISATEUR**
[72] MOLONEY, PATRICK, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ, GB
[72] CHAN, JUSTIN HAN YANG, GB
[72] BALAN, CATALIN MIHAI, GB
[72] KUENZEL, JOHANNA, GB
[72] TURAKULOV, LAZIZ, GB
[72] HODGSON, MATTHEW, GB
[72] ROUGHLEY, HOWARD, GB
[72] NANDRA, CHARANJIT, GB
[72] KARLIDAG, GULBEN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-06-14 (PCT/GB2021/051472)
[87] (WO2021/260345)
[30] GB (2009484.3) 2020-06-22

[21] **3,173,235**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) A24F 40/60 (2020.01) A24F 40/65 (2020.01)**
[25] EN
[54] **USER FEEDBACK SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE RETOUR D'INFORMATIONS D'UTILISATEUR**
[72] MOLONEY, PATRICK, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ, GB
[72] CHAN, JUSTIN HAN YANG, GB
[72] BALAN, CATALIN MIHAI, GB
[72] KUENZEL, JOHANNA, GB
[72] TURAKULOV, LAZIZ, GB
[72] HODGSON, MATTHEW, GB
[72] NANDRA, CHARANJIT, GB
[72] ROUGHLEY, HOWARD, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-06-15 (PCT/GB2021/051499)
[87] (WO2021/260347)
[30] GB (2009487.6) 2020-06-22

[21] **3,173,238**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) G16H 20/13 (2018.01) G16H 40/63 (2018.01) A24F 40/00 (2020.01)**
[25] EN
[54] **USER FEEDBACK SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE RETROACTION D'UTILISATEUR**
[72] MOLONEY, PATRICK, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ, GB
[72] CHAN, JUSTIN HAN YANG, GB
[72] BALAN, CATALIN MIHAI, GB
[72] KUENZEL, JOHANNA, GB
[72] TURAKULOV, LAZIZ, GB
[72] HODGSON, MATTHEW, GB
[72] NANDRA, CHARANJIT, GB
[72] ROUGHLEY, HOWARD, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-06-16 (PCT/GB2021/051523)
[87] (WO2021/260349)
[30] GB (2009489.2) 2020-06-22

[21] **3,173,234**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) A24F 40/60 (2020.01) A24F 40/65 (2020.01)**
[25] EN
[54] **USER FEEDBACK SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE RETROACTION D'UTILISATEUR**
[72] MOLONEY, PATRICK, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ, GB
[72] CHAN, JUSTIN HAN YANG, GB
[72] BALAN, CATALIN MIHAI, GB
[72] KUENZEL, JOHANNA, GB
[72] HODGSON, MATTHEW, GB
[72] ROUGHLEY, HOWARD, GB
[72] TURAKULOV, LAZIZ, GB
[72] NANDRA, CHARANJIT, GB
[72] KARLIDAG, GULBEN, GB
[72] MACCI, FLAVIO, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-06-15 (PCT/GB2021/051493)
[87] (WO2021/260346)
[30] GB (2009486.8) 2020-06-22

[21] **3,173,237**
[13] A1

[51] **Int.Cl. E21B 43/34 (2006.01) B01D 21/24 (2006.01) B01D 21/26 (2006.01) G01F 15/08 (2006.01) G01F 23/00 (2022.01) G01L 13/02 (2006.01) G01L 19/00 (2006.01) G01L 23/00 (2006.01)**
[25] EN
[54] **DIFFERENTIAL PRESSURE BASED AUTOMATED SAND DETECTION AND HANDLING SYSTEM FOR OIL AND GAS WELL OPERATIONS**
[54] **SYSTEME AUTOMATISE DE DETECTION ET DE MANIPULATION DE SABLE BASE SUR UNE PRESSION DIFFERENTIELLE POUR OPERATIONS DE Puits DE PETROLE ET DE GAZ**
[72] MALONE, RYAN, US
[72] BAAREN, SANDER, US
[72] RASMUSSEN, ERIC, US
[72] MINTER, RICHARD, US
[71] FMC TECHNOLOGIES, INC., US
[85] 2022-09-23
[86] 2021-03-30 (PCT/US2021/024894)
[87] (WO2021/202534)
[30] US (16/835,537) 2020-03-31

[21] **3,173,239**
[13] A1

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/30 (2006.01)**
[25] EN
[54] **ORAL PRODUCT**
[54] **PRODUIT ORAL**
[72] STOLLE, THERESA, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-23
[86] 2021-08-27 (PCT/GB2021/052227)
[87] (WO2022/043700)
[30] GB (2013491.2) 2020-08-27

PCT Applications Entering the National Phase

[21] **3,173,240**
[13] A1

[51] **Int.Cl. G06F 9/44 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SOFTWARE DESIGN CONTROL AND QUALITY ASSURANCE**
[54] **SYSTEMES ET PROCEDES DE GESTION DE CONCEPTION ET D'ASSURANCE QUALITE DE LOGICIEL**
[72] GOTTlieb, CARL, US
[72] TREES, JASON, US
[71] AKILI INTERACTIVE LABS, INC., US
[85] 2022-09-23
[86] 2021-04-01 (PCT/US2021/025377)
[87] (WO2021/202870)
[30] US (63/003,673) 2020-04-01
[30] US (17/117,050) 2020-12-09

[21] **3,173,241**
[13] A1

[51] **Int.Cl. H01M 8/04029 (2016.01) H01M 8/0444 (2016.01) H01M 8/04791 (2016.01) H01M 8/0637 (2016.01) H01M 8/0668 (2016.01) H01M 8/04007 (2016.01)**
[25] EN
[54] **CARBON DIOXIDE PRODUCTION FROM CARBONATE FUEL CELLS**
[54] **PRODUCTION DE DIOXYDE DE CARBONE A PARTIR DE PILES A COMBUSTIBLE A CARBONATE**
[72] LEO, ANTHONY M., US
[72] JOLLY, STEPHEN, US
[72] KIM, JAMES, US
[71] FUELCELL ENERGY, INC., US
[85] 2022-09-25
[86] 2021-09-15 (PCT/US2021/050521)
[87] (WO2022/060879)
[30] US (63/079,284) 2020-09-16

[21] **3,173,242**
[13] A1

[51] **Int.Cl. H01M 8/04746 (2016.01)**
[25] EN
[54] **SYSTEM FOR REBALANCING A PRESSURE DIFFERENTIAL IN A FUEL CELL USING GAS INJECTION**
[54] **SYSTEME DE REEQUILIBRAGE D'UN DIFFERENTIEL DE PRESSION DANS UNE PILE A COMBUSTIBLE PAR INJECTION DE GAZ**
[72] FOURNIER, ROBERT S., US
[72] VOYTEK, THOMAS J., US
[72] DALY, JOSEPH M., US
[71] FUELCELL ENERGY, INC., US
[85] 2022-09-25
[86] 2021-06-21 (PCT/US2021/038197)
[87] (WO2021/262574)
[30] US (63/042,355) 2020-06-22

[21] **3,173,243**
[13] A1

[51] **Int.Cl. C25B 15/021 (2021.01) C25B 9/73 (2021.01) C25B 15/025 (2021.01)**
[25] EN
[54] **A SOLID OXIDE ELECTROLYSIS CELL SYSTEM AND A METHOD OF OPERATING A SOLID OXIDE ELECTROLYSIS CELL SYSTEM**
[54] **SYSTEME DE CELLULE D'ELECTROLYSE A OXYDE SOLIDE ET PROCEDE DE FONCTIONNEMENT D'UN SYSTEME DE CELLULE D'ELECTROLYSE A OXYDE SOLIDE**
[72] BROWN, CASY CLOUDLESS, US
[71] VERSA POWER SYSTEMS LTD, US
[85] 2022-09-26
[86] 2021-08-02 (PCT/IB2021/057062)
[87] (WO2022/029605)
[30] US (63/060,854) 2020-08-04

[21] **3,173,244**
[13] A1

[51] **Int.Cl. C12N 15/62 (2006.01) C12N 9/10 (2006.01) C12N 15/54 (2006.01) C12P 21/02 (2006.01) C12Q 1/48 (2006.01)**
[25] EN
[54] **PROTEIN CONSTRUCTS OF MOLONEY MURINE LEUKEMIA VIRUS REVERSE TRANSCRIPTASE (MMLV-RT)**
[54] **CONSTRUCTIONS PROTEIQUES DE LA TRANSCRIPTASE INVERSE DU VIRUS DE LA LEUCEMIE MURINE DE MOLONEY (MMLV-RT)**
[72] SCHMEING, THOMAS MARTIN THORNE, CA
[72] TARRY, MICHAEL JOHN, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[85] 2022-09-26
[86] 2021-07-07 (PCT/IB2021/056092)
[87] (WO2022/009116)
[30] US (63/050,198) 2020-07-10

[21] **3,173,245**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 7/01 (2006.01) C12N 15/10 (2006.01) C12N 15/55 (2006.01) C12N 15/86 (2006.01) C12N 15/864 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **ENGINEERED MEGANUCLEASES THAT TARGET HUMAN MITOCHONDRIAL GENOMES**
[54]
[72] SMITH, JAMES JEFFERSON, US
[72] TOMBERLIN, GINGER H., US
[72] MORRIS, JOHN, US
[72] SHOOP, WENDY, US
[72] MORAES, CARLOS T., US
[71] PRECISION BIOSCIENCES, INC., US
[71] UNIVERSITY OF MIAMI, US
[85] 2022-09-26
[86] 2022-04-22 (PCT/US2022/025947)
[87] (3173245)
[30] US (63/178,250) 2021-04-22
[30] US (63/178,263) 2021-04-22
[30] US (63/318,191) 2022-03-09
[30] US (63/318,192) 2022-03-09

Demandes PCT entrant en phase nationale

[21] **3,173,247**
[13] A1

[51] **Int.Cl. H01M 4/04 (2006.01) H01M 10/052 (2010.01) H01M 10/0525 (2010.01) H01M 10/056 (2010.01) H01M 10/0585 (2010.01) H01M 50/124 (2021.01) H01M 50/126 (2021.01) H01M 50/54 (2021.01) H01M 50/543 (2021.01) H01M 4/64 (2006.01) H01M 10/04 (2006.01)**

[25] FR
[54] **LITHIUM-ION BATTERY AND METHOD FOR THE MANUFACTURE THEREOF**
[54] **BATTERIE A IONS DE LITHIUM ET SON PROCEDE DE FABRICATION**
[72] GABEN, FABIEN, FR
[71] I-TEN, FR
[85] 2022-09-26
[86] 2021-03-23 (PCT/IB2021/052375)
[87] (WO2021/198843)
[30] EP (20166569.2) 2020-03-30

[21] **3,173,248**
[13] A1

[51] **Int.Cl. B01J 35/00 (2006.01) H01M 4/139 (2010.01) H01M 10/0525 (2010.01) H01M 10/0562 (2010.01) H01M 10/0585 (2010.01) B82Y 30/00 (2011.01) B82Y 40/00 (2011.01) B01J 37/02 (2006.01) C04B 35/00 (2006.01) C23C 18/12 (2006.01) C25D 13/02 (2006.01) C25D 13/22 (2006.01) C25D 15/00 (2006.01) H01M 4/04 (2006.01)**

[25] FR
[54] **METHOD FOR MANUFACTURING DENSE LAYERS THAT CAN BE USED AS ELECTRODES AND/OR ELECTROLYTES FOR LITHIUM ION BATTERIES, AND LITHIUM ION MICROBATTERIES OBTAINED IN THIS WAY**
[54] **PROCEDE DE FABRICATION DE COUCHES DENSES, UTILISABLES COMME ELECTRODES ET/OU ELECTROLYTES POUR BATTERIES A IONS DE LITHIUM, ET MICROBATTERIES A IONS DE LITHIUM AINSI OBTENUES**
[72] GABEN, FABIEN, FR
[71] I-TEN, FR
[85] 2022-09-26
[86] 2021-03-30 (PCT/IB2021/052604)
[87] (WO2021/198890)
[30] FR (2003104) 2020-03-30

[21] **3,173,256**
[13] A1

[51] **Int.Cl. A61K 31/19 (2006.01)**

[25] EN
[54] **METHODS OF ADMINISTERING GAMMA-HYDROXYBUTYRATE COMPOSITIONS WITH DIVALPROEX SODIUM**
[54] **PROCEDES D'ADMINISTRATION DE COMPOSITIONS DE GAMMA-HYDROXYBUTYRATE AVEC DU SODIUM DE DIVALPROEX**
[72] GRASSOT, JULIEN, IE
[71] FLAMEL IRELAND LIMITED, IE
[85] 2022-09-26
[86] 2021-04-15 (PCT/IB2021/053137)
[87] (WO2021/209956)
[30] US (63/010,974) 2020-04-16

[21] **3,173,261**
[13] A1

[51] **Int.Cl. A24D 1/02 (2006.01) A24D 1/20 (2020.01)**

[25] EN
[54] **NON-COMBUSTIBLE WRAPPER FOR USE IN HEAT BUT NOT BURN APPLICATIONS**
[54] **ENVELOPPE NON COMBUSTIBLE DESTINEE A ETRE UTILISEE DANS DES APPLICATIONS DE CHAUFFAGE MAIS DE NON-COMBUSTION**
[72] STEFANI, BRUNO, LU
[72] LE BEC, LANIG, LU
[71] SWM LUXEMBOURG, LU
[85] 2022-09-26
[86] 2021-04-07 (PCT/IB2021/052905)
[87] (WO2021/205368)
[30] US (63/006,576) 2020-04-07

[21] **3,173,270**
[13] A1

[51] **Int.Cl. G05B 23/02 (2006.01) G05B 13/02 (2006.01) G05B 17/02 (2006.01)**

[25] EN
[54] **METHOD AND APPARATUS FOR MONITORING MACHINE LEARNING MODELS**
[54] **PROCEDE ET APPAREILS DE SURVEILLANCE DE MODELE D'APPRENTISSAGE AUTOMATIQUE**
[72] SCHMIDT, BENEDIKT, DE
[72] AMIHAI, IDO, DE
[72] CHIOUA, MONCEF, DE
[72] KOTRIWALA, ARZAM, DE
[72] HOLLENDER, MARTIN, DE
[72] JANKA, DENNIS, DE
[72] LENDERS, FELIX, DE
[72] SCHLAKE, JAN CHRISTOPH, DE
[72] KLOEPFER, BENJAMIN, DE
[72] ABUKWAIK, HADIL, DE
[71] ABB SCHWEIZ AG, CH
[85] 2022-09-26
[86] 2021-03-11 (PCT/EP2021/056180)
[87] (WO2021/197796)
[30] EP (PCT/EP2020/059143) 2020-03-31

[21] **3,173,271**
[13] A1

[51] **Int.Cl. A47C 27/10 (2006.01) A47C 27/18 (2006.01) A61G 7/057 (2006.01)**

[25] EN
[54] **BEDS AND OTHER BODY SUPPORT DEVICES WITH INDIVIDUALLY CONTROLLABLE CELLS COMPRISING ONE OR MORE AIR BLADDERS**
[54] **LITS ET AUTRES DISPOSITIFS DE SUPPORT CORPOREL AVEC DES CELLULES POUVANT ETRE COMMANDEES INDIVIDUELLEMENT COMPRENANT UNE OU PLUSIEURS VESSIES D'AIR**
[72] BERTONI, DAVID, US
[72] CULEN, MATTHEW, US
[72] FOX, JASON, US
[72] BLECK, JAMES, US
[72] EAGAN, THOMAS, JR., US
[71] LEVISENSE MEDICAL, INC., US
[85] 2022-09-26
[86] 2021-05-11 (PCT/US2021/031753)
[87] (WO2021/231407)
[30] US (63/023,805) 2020-05-12
[30] US (63/131,619) 2020-12-29

PCT Applications Entering the National Phase

[21] **3,173,274**
[13] A1

[51] **Int.Cl. D21H 11/14 (2006.01) D21H 21/36 (2006.01) D21H 23/78 (2006.01)**
[25] EN
[54] **A METHOD OF CONTROLLING ENZYMATIC ACTIVITIES AND TOOLS RELATED THERETO**
[54] **PROCEDE DE REGULATION D'ACTIVITES ENZYMATIQUES ET OUTILS ASSOCIES**
[72] JAAKKOLA, ANU, FI
[72] EKMAN, JAAKKO, FI
[72] KOLARI, MARKO, FI
[72] KORHONEN, MARKUS, FI
[71] KEMIRA OYJ, FI
[85] 2022-09-24
[86] 2021-04-20 (PCT/FI2021/050292)
[87] (WO2021/214385)
[30] FI (20205394) 2020-04-20

[21] **3,173,275**
[13] A1

[51] **Int.Cl. C04B 28/00 (2006.01) C04B 40/06 (2006.01)**
[25] EN
[54] **MULTI-COMPONENT INORGANIC CAPSULE ANCHORING SYSTEM BASED ON GROUND-GRANULATED BLAST-FURNACE SLAG**
[54] **SYSTEME D'ANCRAGE A CAPSULE INORGANIQUE A CONSTITUANTS MULTIPLES A BASE DE LAITIER DE HAUT FOURNEAU GRANULE ET BROYE**
[72] SCHONLEIN, MARKUS, DE
[72] PFEIL, ARMIN, DE
[72] MIDDENDORF, BERNHARD, DE
[72] SCHADE, TIM, DE
[72] WETZEL, ALEXANDER, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2022-09-24
[86] 2021-05-06 (PCT/EP2021/062014)
[87] (WO2021/228685)
[30] EP (20174887.8) 2020-05-15

[21] **3,173,279**
[13] A1

[51] **Int.Cl. A61K 8/31 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS RELATING TO PIGMENTATION**
[54] **COMPOSITIONS ET PROCEDES SE RAPPORTANT A LA PIGMENTATION**
[72] WIDGEROW, ALAN DAVID, US
[72] GARRUTO, JOHN A., US
[71] ALASTIN SKINCARE, INC., US
[85] 2022-09-24
[86] 2021-03-26 (PCT/US2021/024400)
[87] (WO2021/195522)
[30] US (63/001,095) 2020-03-27

[21] **3,173,280**
[13] A1

[51] **Int.Cl. C04B 7/52 (2006.01) C04B 28/04 (2006.01) C04B 28/16 (2006.01) C04B 40/06 (2006.01)**
[25] EN
[54] **FINELY GROUND PORTLAND CEMENT CLINKER IN A CEMENTITIOUS MULTI-COMPONENT MORTAR SYSTEM FOR USE AS AN INORGANIC CHEMICAL FASTENING SYSTEM**
[54] **CLINKER DE CIMENT PORTLAND FINEMENT BROYE DANS UN SYSTEME DE MORTIER MULTICOMPOSANTS A BASE DE CIMENT, DESTINE A ETRE UTILISE COMME SYSTEME DE SCELLEMENT CHIMIQUE INORGANIQUE**
[72] SCHONLEIN, MARKUS, DE
[72] PFEIL, ARMIN, DE
[72] MIDDENDORF, BERNHARD, DE
[72] SCHADE, TIM, DE
[71] CIPO, CA
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2022-09-24
[86] 2021-05-06 (PCT/EP2021/062012)
[87] (WO2021/228683)
[30] EP (20174877.9) 2020-05-15

[21] **3,173,281**
[13] A1

[51] **Int.Cl. B32B 7/12 (2006.01) B32B 37/12 (2006.01) B32B 38/14 (2006.01) B32B 38/18 (2006.01) G09F 3/02 (2006.01)**
[25] EN
[54] **SELF-LAMINATING LABEL ASSEMBLY AND METHOD FOR USING THE SAME**
[54] **ENSEMBLE ETIQUETTES A AUTO-STRATIFICATION ET PROCEDE D'UTILISATION ASSOCIE**
[72] AMBARTSOUMIAN, GOURGEN, CA
[71] AMBARTSOUMIAN, GOURGEN, CA
[85] 2022-09-24
[86] 2021-05-12 (PCT/CA2021/050660)
[87] (WO2021/226717)
[30] US (63/025,288) 2020-05-15

[21] **3,173,282**
[13] A1

[51] **Int.Cl. B06B 1/06 (2006.01) A61N 7/00 (2006.01) G10K 15/04 (2006.01)**
[25] EN
[54] **APODIZING BACKING STRUCTURES FOR ULTRASONIC TRANSDUCERS AND RELATED METHODS**
[54] **STRUCTURES DE SUPPORT D'APODISATION POUR DES TRANSDUCTEURS A ULTRASONS ET PROCEDES ASSOCIES**
[72] CHAGGARES, NICHOLAS CHRIS, CA
[72] KARSHAFIAN, KHACHIC CHRIS, CA
[72] RIEDER, ERIC M., CA
[71] RESONANT ACOUSTICS INTERNATIONAL INC., CA
[85] 2022-09-24
[86] 2022-03-15 (PCT/CA2022/050387)
[87] (WO2022/193005)
[30] US (63/200,559) 2021-03-15

Demandes PCT entrant en phase nationale

[21] **3,173,283**
[13] A1

[51] **Int.Cl. C25C 7/06 (2006.01) C25C 3/08 (2006.01)**
[25] EN
[54] **SYSTEM AND PROCESS FOR STARTING UP AN ELECTROLYTIC CELL**
[54] **SYSTEME ET PROCEDE DE DEMARRAGE D'UNE CELLULE ELECTROLYTIQUE**
[72] BARDET, BENOIT, FR
[72] BECASSE, SEBASTIEN, FR
[72] D'ASTOLFO, LEROY, US
[72] FORS, JOHN, NO
[72] NOIZET, ALAIN, FR
[72] PETITJEAN, BRUNO, FR
[71] ELYSIS LIMITED PARTNERSHIP, CA
[85] 2022-09-26
[86] 2021-04-30 (PCT/CA2021/050609)
[87] (WO2021/232147)
[30] US (63/018,680) 2020-05-01

[21] **3,173,284**
[13] A1

[51] **Int.Cl. A24B 3/14 (2006.01) A24D 1/20 (2020.01) A24B 15/14 (2006.01) A24B 15/16 (2020.01) A24B 15/30 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET PROCEDES**
[72] ABI AOUN, WALID, GB
[72] MUA, JOHN PAUL, US
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-24
[86] 2021-09-03 (PCT/EP2021/074360)
[87] (WO2022/049242)
[30] US (63/074,088) 2020-09-03

[21] **3,173,285**
[13] A1

[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/20 (2020.01) A24B 15/16 (2020.01) A24B 15/28 (2006.01)**
[25] EN
[54] **AEROSOL GENERATION**
[54] **GENERATION D'AEROSOL**
[72] ABI AOUN, WALID, GB
[72] CROSS, JENNIFER, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-24
[86] 2021-08-24 (PCT/EP2021/073419)
[87] (WO2022/043337)
[30] GB (2013212.2) 2020-08-24

[21] **3,173,286**
[13] A1

[51] **Int.Cl. A24B 3/14 (2006.01) A24D 1/20 (2020.01) A24B 15/14 (2006.01) A24B 15/16 (2020.01) A24B 15/30 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET PROCEDES**
[72] ABI AOUN, WALID, GB
[72] MUA, JOHN PAUL, US
[72] ULRICH, JOHN, US
[72] CARAWAY, JOHN, US
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-24
[86] 2021-09-03 (PCT/EP2021/074367)
[87] (WO2022/049248)
[30] US (63/074,088) 2020-09-03
[30] US (63/224,551) 2021-07-22

[21] **3,173,288**
[13] A1

[51] **Int.Cl. E21B 33/138 (2006.01) B82Y 30/00 (2011.01) C09K 8/42 (2006.01) C09K 8/50 (2006.01) E21B 43/32 (2006.01)**
[25] EN
[54] **METHOD FOR LEVELING THE INJECTIVITY PROFILE OF AN INJECTION WELL**
[54] **PROCEDE DE NIVELLEMENT DE PROFIL DE REPRISE D'UN PUIT DE POMPAGE**
[72] SERGEEV, VITALII VYACHESLAVOVICH, RU
[71] LIMITED LIABILITY COMPANY OILMIND, RU
[85] 2022-09-26
[86] 2021-02-26 (PCT/RU2021/050050)
[87] (WO2021/194390)
[30] RU (2020112178) 2020-03-25

[21] **3,173,290**
[13] A1

[51] **Int.Cl. A24B 3/14 (2006.01) A24D 1/20 (2020.01) A24B 15/14 (2006.01) A24B 15/16 (2020.01) A24B 15/30 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET PROCEDES**
[72] ABI AOUN, WALID, GB
[72] STROPHAIR, ORIOL, GB
[72] MUA, JOHN PAUL, US
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-24
[86] 2021-09-03 (PCT/EP2021/074361)
[87] (WO2022/049243)
[30] US (63/074,088) 2020-09-03
[30] US (63/224,555) 2021-07-22

[21] **3,173,292**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24D 1/20 (2020.01) A24B 15/30 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET PROCEDES**
[72] ABI AOUN, WALID, GB
[72] TODD, RICHARD, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-24
[86] 2021-09-03 (PCT/EP2021/074390)
[87] (WO2022/049256)
[30] GB (2013858.2) 2020-09-03
[30] GB (2110572.1) 2021-07-22

[21] **3,173,293**
[13] A1

[51] **Int.Cl. F17C 5/06 (2006.01) F04B 19/24 (2006.01)**
[25] FR
[54] **SYSTEM FOR THE THERMAL COMPRESSION OF A GAS**
[54] **SYSTEME DE COMPRESSION THERMIQUE D'UN GAZ**
[72] MASTIO, SIMON, FR
[71] EIFHYTEC, FR
[85] 2022-09-26
[86] 2022-03-15 (PCT/EP2022/056640)
[87] (WO2022/194837)
[30] FR (FR2102675) 2021-03-17

PCT Applications Entering the National Phase

[21] **3,173,296**
[13] A1

[51] **Int.Cl. B01D 9/02 (2006.01) B01D 11/04 (2006.01) B09B 3/00 (2022.01) B09B 5/00 (2006.01) C22B 3/26 (2006.01) C22B 3/32 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01) C22B 23/00 (2006.01) C22B 47/00 (2006.01) H01M 10/24 (2006.01)**

[25] EN
[54] **METHOD FOR PRODUCING MIXED METAL SOLUTION AND METHOD FOR PRODUCING MIXED METAL SALT**

[54] ARAKAWA, JUNICHI, JP
[72] TAJIRI, KAZUNORI, JP
[71] JX NIPPON MINING & METALS CORPORATION, JP
[85] 2022-09-26
[86] 2021-04-22 (PCT/JP2021/016380)
[87] (WO2021/215520)
[30] JP (2020-076946) 2020-04-23

[21] **3,173,304**
[13] A1

[51] **Int.Cl. A61F 13/00 (2006.01) A61F 13/02 (2006.01) A61L 15/40 (2006.01) A61L 26/00 (2006.01)**

[25] EN
[54] **BLOOD EXTRACTION PRELEVEMENT SANGUIN**

[72] KUSHNIR, ALON, IL
[72] ILAN, OHAD, IL
[71] REDDRESS LTD., IL
[85] 2022-09-26
[86] 2021-04-07 (PCT/IL2021/050404)
[87] (WO2021/205457)
[30] IL (273876) 2020-04-07

[21] **3,173,307**
[13] A1

[51] **Int.Cl. A61K 38/09 (2006.01)**

[25] EN
[54] **VACCINES AGAINST VIRAL PATHOGENS VACCINS CONTRE DES AGENTS PATHOGENES VIRAUX**

[72] MILLER, KEITH DOUGLAS, US
[72] BOGDEN, ROBERT, US
[71] HEXAMER THERAPEUTICS, INC., US
[85] 2022-09-26
[86] 2021-05-04 (PCT/US2021/030579)
[87] (WO2021/226026)
[30] US (63/019,654) 2020-05-04

[21] **3,173,310**
[13] A1

[51] **Int.Cl. C12N 9/26 (2006.01) C12N 15/85 (2006.01)**

[25] EN
[54] **METHOD FOR PRODUCING RECOMBINANT HYALURONIDASE**

[54] **PROCEDE DE PRODUCTION D'HYALURONIDASE RECOMBINANT**

[72] PARK, SOON-JAE, KR
[72] KIM, KYUWAN, KR
[72] YUN, SANG HOON, KR
[72] CHO, JEONG SOO, KR
[72] PARK, KIBUM, KR
[72] BYUN, MINSOO, KR
[72] SONG, HYUNG NAM, KR
[72] KIM, JI-SUN, KR
[72] NAM, KI SEOK, KR
[71] ALTEOGEN, INC., KR
[85] 2022-09-26
[86] 2021-08-06 (PCT/KR2021/010368)
[87] (WO2022/031093)
[30] KR (10-2020-0099100) 2020-08-07

[21] **3,173,312**
[13] A1

[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/24 (2006.01) A61M 5/315 (2006.01)**

[25] EN
[54] **AUTO-INJECTOR DEVICE EQUIPPED WITH RECONSTITUTION FUNCTIONALITY FOR MULTIPLE CHAMBER DRUG CARTRIDGE**

[54] **DISPOSITIF D'AUTO-INJECTEUR DOTE D'UNE FONCTIONNALITE DE RECONSTITUTION POUR CARTOUCHE DE MEDICAMENT A CHAMBRES MULTIPLES**

[72] MARCOZ, ALAIN, FR
[72] HIHOUD, MAJID, FR
[72] COHAS, QUENTIN, FR
[71] BIOCROP PRODUCTION S.A, FR
[85] 2022-09-26
[86] 2020-04-01 (PCT/IB2020/000311)
[87] (WO2021/198719)

[21] **3,173,322**
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/485 (2006.01)**

[25] EN
[54] **TRANSDERMAL DELIVERY OF DEXTROMETHORPHAN ADMINISTRATION TRANSDERMIQUE DE DEXTROMETHORPHANE**

[72] BORSADIA, SURESH, US
[72] PATEL, KALPANA, US
[72] TAN, HOCK S., US
[72] RAVAL, KRUNAL, IN
[71] SHINKEI THERAPEUTICS LLC, US
[85] 2022-09-26
[86] 2021-03-29 (PCT/US2021/024572)
[87] (WO2021/202329)
[30] US (63/001,607) 2020-03-30

[21] **3,173,315**
[13] A1

[51] **Int.Cl. G05B 13/02 (2006.01) G05B 23/02 (2006.01)**

[25] EN
[54] **METHOD FOR AN INTELLIGENT ALARM MANAGEMENT IN INDUSTRIAL PROCESSES**

[54] **PROCEDE DE GESTION D'ALARME INTELLIGENTE DANS DES PROCESSUS INDUSTRIELS**

[72] CHIOUA, MONCEF, CA
[72] DIX, MARCEL, DE
[72] KLOEPPER, BENJAMIN, DE
[72] LYMPEROPOULOS, IOANNIS, CH
[72] JANKA, DENNIS, DE
[72] RODRIGUEZ, PABLO, DE
[71] ABB SCHWEIZ AG, CH
[85] 2022-09-26
[86] 2021-04-13 (PCT/EP2021/059529)
[87] (WO2021/209432)
[30] EP (PCT/EP2020/060755) 2020-04-16

[21] **3,173,321**
[13] A1

[51] **Int.Cl. A61F 2/966 (2013.01)**

[25] EN
[54] **INDWELLING DEVICE DISPOSITIF A DEMEURE**

[72] YOSHIMORI, TAKASHI, JP
[72] EMI, TOMOHIRO, JP
[72] YAMAMOTO, NAOAKI, JP
[71] SB-KAWASUMI LABORATORIES, INC., JP
[85] 2022-09-26
[86] 2021-03-26 (PCT/JP2021/013026)
[87] (WO2021/193955)
[30] JP (2020-057471) 2020-03-27

[21] **3,173,322**
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/485 (2006.01)**

[25] EN
[54] **TRANSDERMAL DELIVERY OF DEXTROMETHORPHAN ADMINISTRATION TRANSDERMIQUE DE DEXTROMETHORPHANE**

[72] BORSADIA, SURESH, US
[72] PATEL, KALPANA, US
[72] TAN, HOCK S., US
[72] RAVAL, KRUNAL, IN
[71] SHINKEI THERAPEUTICS LLC, US
[85] 2022-09-26
[86] 2021-03-29 (PCT/US2021/024572)
[87] (WO2021/202329)
[30] US (63/001,607) 2020-03-30

Demandes PCT entrant en phase nationale

[21] **3,173,323**
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01) A61B 3/10 (2006.01) A61F 9/00 (2006.01)**

[25] EN

[54] **EYELID EVERSION TOOL AND DISPOSABLE GRIPPERS FOR USE WITH AN EYELID EVERSION TOOL**

[54] **OUTIL D'EVERSION DE PAUPIERE ET DISPOSITIFS DE PREHENSION JETABLES DESTINES A ETRE UTILISES AVEC UN OUTIL D'EVERSION DE PAUPIERE**

[72] KLASSEN, HELEN MARY ANN, CA

[72] VANDERWEL, ZACHARY RALPH, CA

[71] NATUREZONE INC., CA

[85] 2022-09-26

[86] 2021-04-09 (PCT/CA2021/050473)

[87] (WO2021/212211)

[30] US (16/854,974) 2020-04-22

[21] **3,173,325**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/18 (2006.01) C07K 16/40 (2006.01)**

[25] EN

[54] **HUMANIZED ANTI-COMPLEMENT FACTOR BB ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS HUMANISES ANTI-FACTEUR BB DU COMPLEMENT ET LEURS UTILISATIONS**

[72] PARRY, GRAHAM, US

[72] MOORE, STEPHEN, US

[72] STOREK, MICHAEL, US

[72] LEKSA, NINA C., US

[71] GENZYME CORPORATION, US

[85] 2022-09-26

[86] 2021-04-19 (PCT/US2021/027981)

[87] (WO2021/216458)

[30] US (63/012,590) 2020-04-20

[21] **3,173,330**
[13] A1

[51] **Int.Cl. A61K 31/553 (2006.01) A61K 31/573 (2006.01) A61K 31/7052 (2006.01) A61K 45/06 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **ECLITASERTIB FOR USE IN TREATING CONDITIONS INVOLVING SYSTEMIC HYPERINFLAMMATORY RESPONSE**

[54] **ECLITASERTIB DESTINE A ETRE UTILISE DANS LE TRAITEMENT D'ETATS IMPLIQUANT UNE REPONSE HYPERINFLAMMATOIRE SYSTEMIQUE**

[72] SCHNYDER, SABINE, US

[72] CAMINIS, JOHN, US

[72] FLORIAN, PETER, US

[72] HARRIS, KEITH, US

[72] OFENGEIM, DIMITRY, US

[72] STAUDINGER, HERIBERT, US

[72] ZELIC, MATIJA, US

[71] GENZYME CORPORATION, US

[85] 2022-09-26

[86] 2021-04-16 (PCT/US2021/027593)

[87] (WO2021/211919)

[30] US (63/011,874) 2020-04-17

[21] **3,173,331**
[13] A1

[25] EN

[54] **APPARATUS AND METHOD TO FACILITATE IDENTIFICATION OF ITEMS**

[54] **APPAREIL ET PROCEDE POUR FACILITER L'IDENTIFICATION D'ARTICLES**

[72] HOROWITZ, JOSHUA M., US

[71] WALMART APOLLO, LLC, US

[85] 2022-09-26

[86] 2021-03-25 (PCT/US2021/024052)

[87] (WO2021/195314)

[30] US (63/000,029) 2020-03-26

[21] **3,173,332**
[13] A1

[51] **Int.Cl. B29C 64/124 (2017.01) B29C 64/264 (2017.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR LITHOGRAPHY-BASED GENERATIVE MANUFACTURING OF A THREE-DIMENSIONAL COMPONENT**

[54]

[72] GRUBER, PETER, AT

[71] UPNANO GMBH, AT

[85] 2022-09-26

[86] 2021-03-18 (PCT/IB2021/052284)

[87] (WO2021/198835)

[30] EP (20020142.4) 2020-03-31

[21] **3,173,333**
[13] A1

[51] **Int.Cl. A61K 31/554 (2006.01) A61P 31/20 (2006.01) C07D 515/20 (2006.01)**

[25] EN

[54] **NOVEL SPIROPYRROLIDINE DERIVED ANTIVIRAL AGENTS**

[54] **NOUVEAUX AGENTS ANTIVIRAUX DERIVES DE SPIROPYRROLIDINE**

[72] WANG, GUOQIANG, US

[72] SHEN, RUICHAO, US

[72] HE, YONG, US

[72] MA, JUN, US

[72] XING, XUECHAO, US

[72] CAO, HUI, US

[72] GAO, XURI, US

[72] PENG, XIAOWEN, US

[72] LONG, JIANG, US

[72] LI, WEI, US

[72] ZHANG, JIAJUN, US

[72] PANARESE, JOSEPH D., US

[72] KENTON, NATHANIEL THOMAS, US

[72] BARTLETT, SAMUEL, US

[72] OR, YAT SUN, US

[71] ENANTA PHARMACEUTICALS, INC., US

[85] 2022-09-26

[86] 2021-11-22 (PCT/US2021/060247)

[87] (WO2022/109363)

[30] US (63/117,170) 2020-11-23

[30] US (63/142,663) 2021-01-28

[30] US (17/479,244) 2021-09-20

[30] US (17/479,530) 2021-09-20

PCT Applications Entering the National Phase

[21] **3,173,335**
[13] A1

[51] **Int.Cl. C04B 28/00 (2006.01) C04B 40/06 (2006.01)**

[25] EN

[54] **FINELY GROUND GRANULATED BLAST-FURNACE SLAG IN A CEMENTITIOUS MULTI-COMPONENT MORTAR SYSTEM FOR USE AS AN INORGANIC CHEMICAL FASTENING SYSTEM**

[54] **LAITIER GRANULE DE HAUT FOURNEAU FINEMENT BROYE DANS UN SYSTEME DE MORTIER MULTICOMPOSANTS A BASE DE CIMENT, DESTINE A ETRE UTILISE COMME SYSTEME DE SCHELLEMENT CHIMIQUE INORGANIQUE**

[72] SCHONLEIN, MARKUS, DE
[72] PFEIL, ARMIN, DE
[72] MIDDENDORF, BERNHARD, DE
[72] SCHADE, TIM, DE
[72] WETZEL, ALEXANDER, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2022-09-26
[86] 2021-05-06 (PCT/EP2021/062009)
[87] (WO2021/228680)
[30] EP (20174882.9) 2020-05-15

[21] **3,173,338**
[13] A1

[51] **Int.Cl. G01N 30/86 (2006.01) G01N 30/88 (2006.01)**

[25] EN

[54] **ULTRAVIOLET MONITORING OF CHROMATOGRAPHY PERFORMANCE BY ORTHOGONAL PARTIAL LEAST SQUARES**

[54] **SURVEILLANCE PAR ULTRAVIOLETS DE PERFORMANCES DE CHROMATOGRAPHIE AU MOYEN DES MOINDRES CARRES PARTIELS ORTHOGONAUX**

[72] SHIERLY, ERIC, US
[72] BRENNAN, KEVIN, US
[72] MAO, NATHAN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-09-26
[86] 2021-04-13 (PCT/US2021/027043)
[87] (WO2021/211550)
[30] US (63/009,835) 2020-04-14

[21] **3,173,340**
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) H02M 7/48 (2007.01)**

[25] EN

[54] **APPARATUS FOR AN AEROSOL GENERATING DEVICE**

[54] **APPAREIL POUR DISPOSITIF DE GENERATION D'AEROSOL**

[72] VINTOLA, TOMI, GB
[72] ZHIYONG, ZHENG, CN
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-09-15 (PCT/GB2021/052386)
[87] (WO2022/058723)
[30] GB (2014643.7) 2020-09-17

[21] **3,173,341**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) G16H 50/50 (2018.01) G16H 50/70 (2018.01) A61B 5/398 (2021.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROCESSING RETINAL SIGNAL DATA AND IDENTIFYING CONDITIONS**

[54] **SYSTEMES ET PROCEDES POUR LE TRAITEMENT DE DONNEES DE SIGNAUX RETINIENS ET L'IDENTIFICATION D'ETATS**

[72] HARITON, CLAUDE, CA
[71] DIAMENTIS INC., CA
[85] 2022-09-26
[86] 2021-03-25 (PCT/CA2021/050390)
[87] (WO2021/189144)
[30] US (63/000,055) 2020-03-26
[30] US (63/038,257) 2020-06-12
[30] US (63/149,508) 2021-02-15

[21] **3,173,342**
[13] A1

[51] **Int.Cl. C04B 28/04 (2006.01) C04B 28/16 (2006.01) C04B 40/06 (2006.01)**

[25] EN

[54] **MULTI-COMPONENT INORGANIC CAPSULE ANCHORING SYSTEM BASED ON PORTLAND CEMENT CLINKER**

[54] **SYSTEME D'ANCRAGE A CAPSULE INORGANIQUE A CONSTITUANTS MULTIPLES A BASE DE CLINKER DE CIMENT PORTLAND**

[72] SCHONLEIN, MARKUS, DE
[72] PFEIL, ARMIN, DE
[72] MIDDENDORF, BERNHARD, DE
[72] SCHADE, TIM, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2022-09-26
[86] 2021-05-06 (PCT/EP2021/062007)
[87] (WO2021/228679)
[30] EP (20174885.2) 2020-05-15

[21] **3,173,343**
[13] A1

[51] **Int.Cl. B08B 3/12 (2006.01) F24H 1/00 (2022.01) F28G 7/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PREVENTING AND REMOVING CHEMICAL DEPOSITS IN A FLUID HEATING DEVICE**

[54] **SYSTEMES ET PROCEDES DE PREVENTION ET D'ELIMINATION DE DEPOTS CHIMIQUES DANS UN DISPOSITIF DE CHAUFFAGE DE FLUIDE**

[72] HAYDEN, CHRISTOPHER M., US
[72] MIHU, SERGIU G., US
[72] JURCZYSZAK, ERIC, US
[71] RHEEM MANUFACTURING COMPANY, US
[85] 2022-09-26
[86] 2021-04-07 (PCT/US2021/026097)
[87] (WO2021/207299)
[30] US (16/844,071) 2020-04-09

Demandes PCT entrant en phase nationale

[21] **3,173,346**
[13] A1

[51] **Int.Cl. A24B 15/167 (2020.01) A24F 40/10 (2020.01) A24B 15/30 (2006.01)**

[25] EN
[54] **CONSUMABLE**
[54] **CONSOMMABLE**
[72] STOLLE, THERESA, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-08-20 (PCT/GB2021/052167)
[87] (WO2022/043666)
[30] GB (2013489.6) 2020-08-27

[21] **3,173,349**
[13] A1

[51] **Int.Cl. A61K 8/37 (2006.01) A61K 8/26 (2006.01) A61K 8/31 (2006.01) A61K 8/33 (2006.01) A61K 8/34 (2006.01)**

[25] EN
[54] **SILICONE-FREE ANTIPERSPIRANT AND DEODORANT COMPOSITIONS**
[54] **COMPOSITIONS ANTITRANSPIRANTES ET DEODORANTES SANS SILICONE**
[72] MONPOU TRUCHET, CAROLINE, CA
[71] KDC/ONE DEVELOPMENT CORPORATION, INC., CA
[85] 2022-09-26
[86] 2021-09-28 (PCT/IB2021/058863)
[87] (WO2022/064473)
[30] US (63/084,099) 2020-09-28

[21] **3,173,351**
[13] A1

[51] **Int.Cl. C12N 9/00 (2006.01) C12N 15/10 (2006.01) G01N 33/68 (2006.01)**

[25] EN
[54] **HIGH-THROUGHPUT SCREENING METHODS TO IDENTIFY SMALL MOLECULE TARGETS**
[54] **PROCEDES DE CRIBLAGE A HAUT RENDEMENT POUR IDENTIFIER DES CIBLES DE PETITES MOLECULES**
[72] YOUNGER, DAVID, US
[72] LOPEZ, RANDOLPH, US
[72] SEN, ARPITA, US
[72] EMERSON, RYAN, US
[71] CIPO, CA
[71] A-ALPHA BIO, INC., US
[85] 2022-09-26
[86] 2021-04-13 (PCT/US2021/027111)
[87] (WO2021/231013)
[30] US (63/023,181) 2020-05-11

[21] **3,173,353**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/60 (2017.01) A61K 47/68 (2017.01) A61K 38/26 (2006.01) A61P 1/02 (2006.01) A61P 1/04 (2006.01) C07K 14/605 (2006.01)**

[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING MUCOSITIS INDUCED BY RADIOTHERAPY, CHEMOTHERAPY, OR COMBINATION THEREOF, COMPRISING GLP-2 DERIVATIVES OR LONG-ACTING CONJUGATE OF SAME**
[54] **COMPOSITION PHARMACEUTIQUE POUR LA PREVENTION OU LE TRAITEMENT DE LA MUCOSITE INDUITE PAR UNE RADIOTHERAPIE, UNE CHIMIOOTHERAPIE OU UNE COMBINAISON DE CELLES-CI, COMPRENANT DES DERIVES DE GLP-2 OU UN CONJUGUE A ACTION PROLONGEE DE CEUX-C**
[72] LEE, JIN BONG, KR
[72] CHOI, JAE HYUK, KR
[72] PARK, EUN JIN, KR
[71] HANMI PHARM. CO., LTD., KR
[85] 2022-09-26
[86] 2021-04-02 (PCT/KR2021/004162)
[87] (WO2021/201654)
[30] KR (10-2020-0040944) 2020-04-03

PCT Applications Entering the National Phase

[21] **3,173,354**
[13] A1

[51] **Int.Cl. C07D 491/048 (2006.01) A61K 31/4355 (2006.01) A61P 31/14 (2006.01) C07D 221/04 (2006.01) C07D 491/04 (2006.01)**

[25] EN
[54] **ANTIVIRAL HETEROCYCLIC COMPOUNDS**
[54] **COMPOSES HETEROCYCLIQUES ANTIVIRAUX**

[72] SZYMANIAK, ADAM, US
[72] YU, JIANMING, US
[72] MCGRATH, KEVIN, US
[72] LI, XIBEN, US
[72] MANN, TYLER J., US
[72] LEON, ROBERT, US
[72] KIM, IN JONG, US
[72] OR, YAT SUN, US
[72] NGUYEN, LONG, US
[71] ENANTA PHARMACEUTICALS, INC., US

[85] 2022-09-26
[86] 2022-02-24 (PCT/US2022/017686)
[87] (WO2022/182861)
[30] US (63/154,318) 2021-02-26
[30] US (63/168,705) 2021-03-31
[30] US (63/293,339) 2021-12-23
[30] US (63/171,895) 2021-04-07

[21] **3,173,355**
[13] A1

[51] **Int.Cl. A23J 1/12 (2006.01) A23K 10/30 (2016.01) C11B 1/02 (2006.01) C13K 1/06 (2006.01)**

[25] EN
[54] **CORN SWEET STEEPING**
[54] **TREMPAGE DE SUCRE A BASE DE MAIS**

[72] CHRISTENSEN, ROBERT I, US
[72] SHETTY, JAYARAMA K, US
[71] DANISCO US INC, US

[85] 2022-09-26
[86] 2021-03-26 (PCT/US2021/024437)
[87] (WO2021/195541)
[30] US (63/000,067) 2020-03-26

[21] **3,173,357**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**

[25] EN
[54] **SMALL MOLECULES INDUCING THE DEGRADATION OF THE CELLULAR PRION PROTEIN**
[54] **PETITES MOLECULES INDUISANT LA DEGRADATION DE LA PROTEINE PRION CELLULAIRE**

[72] BIASINI, EMILIANO, IT
[72] BARRECA, MARIA LETIZIA, IT
[72] FACCIOLI, PIETRO, IT
[72] MANCINI, INES, IT
[71] ISTITUTO NAZIONALE DI FISICA NUCLEARE, IT

[71] UNIVERSITA' DEGLI STUDI DI PERUGIA, IT
[71] UNIVERSITA DEGLI STUDI DI TRENTO, IT

[71] FONDAZIONE TELETHON, IT

[85] 2022-09-26
[86] 2021-03-29 (PCT/IB2021/052586)
[87] (WO2021/191883)
[30] IT (10202000006517) 2020-03-27

[21] **3,173,360**
[13] A1

[51] **Int.Cl. G06F 21/86 (2013.01)**

[25] EN
[54] **MOBILE SECURE NETWORK SYSTEM AND DEVICE**
[54] **SYSTEME ET DISPOSITIF DE RESEAU DE SECURITE MOBILE**

[72] TAN, ALAN, US
[71] SECUKART LLC, US

[85] 2022-09-26
[86] 2021-03-24 (PCT/US2021/023995)
[87] (WO2021/195290)
[30] US (16/833,396) 2020-03-27

[21] **3,173,361**
[13] A1

[51] **Int.Cl. H04W 4/38 (2018.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR WI-FI SENSING**
[54] **SYSTEMES ET PROCEDES DE DETECTION WI-FI**

[72] BEG, CHRIS, CA
[72] OMER, MOHAMMAD, CA
[71] COGNITIVE SYSTEMS CORP., CA

[85] 2022-09-26
[86] 2022-02-14 (PCT/IB2022/051303)
[87] (WO2022/172247)
[30] US (63/149,473) 2021-02-15

[21] **3,173,363**
[13] A1

[51] **Int.Cl. G01D 5/48 (2006.01) G01S 11/00 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR TIME STAMPING OF WI-FI SENSING DATA**
[54] **SYSTEMES ET PROCEDES D'HORODATAGE DE DONNEES DE DETECTION WI-FI**

[72] BEG, CHRIS, CA
[72] OMER, MOHAMMAD, CA
[71] COGNITIVE SYSTEMS CORP., CA

[85] 2022-09-26
[86] 2022-03-16 (PCT/IB2022/052403)
[87] (WO2022/195516)
[30] US (63/162,270) 2021-03-17

[21] **3,173,364**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/42 (2020.01)**

[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**

[72] HUGHES, STEVE, GB
[72] STANIFORTH, MARTYN, GB
[72] NELSON, DAVID ALAN, GB
[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26
[86] 2021-07-09 (PCT/GB2021/051763)
[87] (WO2022/018400)
[30] GB (2011517.6) 2020-07-24

Demandes PCT entrant en phase nationale

[21] **3,173,367**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) F01D 13/00 (2006.01) F01D 15/08 (2006.01) F01D 15/10 (2006.01) F01D 15/12 (2006.01) F01D 21/00 (2006.01)**

[25] EN

[54] **SWITCHABLE APPARATUS, WELL SITE AND CONTROL METHOD THEREOF, DEVICE, AND STORAGE MEDIUM**

[54] **DISPOSITIF POUVANT ETRE COMMUTE, EMPLACEMENT DE PUIITS, PROCEDE ET DISPOSITIF DE COMMANDE POUR L'EMPLACEMENT DE PUIITS, ET SUPPORT DE STOCKAGE**

[72] ZHANG, PENG, CN
[72] LV, LIANG, CN
[72] ZHANG, RIKUI, CN
[72] MAO, ZHUQING, CN
[72] WANG, JIANWEI, CN
[72] LAN, CHUNQIANG, CN
[72] WU, YIPENG, CN
[72] LI, XINCHENG, CN
[71] YANTAI JEREH EQUIPMENT & TECHNOLOGIES CO., LTD., CN
[85] 2022-09-26
[86] 2021-05-25 (PCT/CN2021/095646)
[87] (WO2022/147946)
[30] CN (202110030394.5) 2021-01-11
[30] CN (202110360761.8) 2021-04-02

[21] **3,173,368**
[13] A1

[51] **Int.Cl. A24B 15/167 (2020.01)**

[25] EN

[54] **CONSUMABLE**

[54] **CONSOMMABLE**

[72] MONTERRAT SANCHEZ PENA, MARIA, GB
[72] RENTON, CARLA, GB
[72] GELINAS, MARTINE, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-07-16 (PCT/GB2021/051832)
[87] (WO2022/013569)
[30] GB (2011092.0) 2020-07-17

[21] **3,173,370**
[13] A1

[51] **Int.Cl. G01S 11/02 (2010.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR TIME DOMAIN CHANNEL REPRESENTATION INFORMATION FOR WI-FI SENSING**

[54] **SYSTEMES ET PROCEDES POUR DES INFORMATIONS DE REPRESENTATION DE CANAL DANS LE DOMAINE TEMPOREL POUR LA DETECTION WI-FI**

[72] BEG, CHRIS, CA
[72] OMER, MOHAMMAD, CA
[71] COGNITIVE SYSTEMS CORP., CA
[85] 2022-09-26
[86] 2022-05-11 (PCT/IB2022/054407)
[87] (3173370)
[30] US (63/187,673) 2021-05-12
[30] US (63/216,871) 2021-06-30

[21] **3,173,372**
[13] A1

[51] **Int.Cl. A24B 15/28 (2006.01) A24F 40/20 (2020.01)**

[25] EN

[54] **AEROSOL PROVISION SYSTEM**

[54] **SYSTEME DE FOURNITURE D'AEROSOL**

[72] POYNTON, SIMON, GB
[72] TEFATSION, BINIAM, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-08-02 (PCT/GB2021/051995)
[87] (WO2022/029417)
[30] GB (2012085.3) 2020-08-04

[21] **3,173,375**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/485 (2020.01)**

[25] EN

[54] **DELIVERY SYSTEM**

[54] **SYSTEME DE DISTRIBUTION**

[72] CHEN, PING CHOU, GB
[72] WOODMAN, TOM, GB
[72] LAI, SAM, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-05-11 (PCT/GB2021/051122)
[87] (WO2021/240129)
[30] GB (2008120.4) 2020-05-29

[21] **3,173,378**
[13] A1

[51] **Int.Cl. B60P 1/42 (2006.01) B62D 63/06 (2006.01)**

[25] EN

[54] **DUAL SIDE BULK MATERIAL TENDER**

[54] **TENDER DE MATERIAU MASSIF A DEUX COTES**

[72] YOUNG, ANDREW, US
[71] HEARTLAND AGRICULTURE, LLC, US
[85] 2022-09-26
[86] 2021-02-19 (PCT/US2021/018677)
[87] (WO2022/010545)
[30] US (16/922,138) 2020-07-07

[21] **3,173,383**
[13] A1

[51] **Int.Cl. A61K 47/44 (2017.01)**

[25] EN

[54] **COMPOSITION HAVING IMPROVED VOLUNTARY ACCEPTANCE**

[54] **COMPOSITION PRESENTANT UNE ACCEPTATION VOLONTAIRE AMELIOREE**

[72] HOFMANN, STEFAN, DE
[72] KANIKANTI, VENKATA-RANGARAO, DE
[72] SCHMIDT, FRANZISKA, DE
[72] MANGOLD-GEHRING, SANDRA, DE
[72] BOGEL, ANNETTE, DE
[72] POMMER, BRIGITTE, DE
[71] BAYER ANIMAL HEALTH GMBH, DE
[85] 2022-09-26
[86] 2021-03-30 (PCT/EP2021/058295)
[87] (WO2021/198256)
[30] EP (20167444.7) 2020-03-31

PCT Applications Entering the National Phase

[21] **3,173,384**
[13] A1

[51] **Int.Cl. A24F 40/90 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE**
[54] **DISPOSITIF DE FOURNITURE D'AEROSOL**
[72] JAKOBCZYK, ADRIAN, PL
[72] MILEWSKI, LUKASZ, PL
[72] KOZLOWSKI, MARCIN, PL
[72] KOS, MARCIN, PL
[72] SZYKOWNY, ANDRZEJ, PL
[72] SZEINIG, KRZYSZTOF, PL
[72] MACIAGOWSKI, MACIEJ, PL
[72] ZIELAZEK, PAWEL, PL
[71] ESMOKING INSTITUTE SP. Z O.O., PL
[85] 2022-09-26
[86] 2021-06-09 (PCT/EP2021/065445)
[87] (WO2021/250088)
[30] PL (P.434277) 2020-06-10

[21] **3,173,386**
[13] A1

[51] **Int.Cl. A24F 40/90 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE**
[54] **DISPOSITIF DE FOURNITURE D'AEROSOL**
[72] JAKOBCZYK, ADRIAN, PL
[72] MILEWSKI, LUKASZ, PL
[72] KOZLOWSKI, MARCIN, PL
[72] KOS, MARCIN, PL
[72] SZYKOWNY, ANDRZEJ, PL
[72] SZEINIG, KRZYSZTOF, PL
[72] MACIAGOWSKI, MACIEJ, PL
[72] ZIELAZEK, PAWEL, PL
[71] ESMOKING INSTITUTE SP. Z O.O., PL
[85] 2022-09-26
[86] 2021-06-09 (PCT/EP2021/065435)
[87] (WO2021/250084)
[30] PL (P.434275) 2020-06-10

[21] **3,173,390**
[13] A1

[51] **Int.Cl. A24F 40/90 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE**
[54] **DISPOSITIF DE FOURNITURE D'AEROSOL**
[72] JAKOBCZYK, ADRIAN, PL
[72] MILEWSKI, LUKASZ, PL
[72] KOZLOWSKI, MARCIN, PL
[72] KOS, MARCIN, PL
[72] SZYKOWNY, ANDRZEJ, PL
[72] SZEINIG, KRZYSZTOF, PL
[72] MACIAGOWSKI, MACIEJ, PL
[72] ZIELAZEK, PAWEL, PL
[71] ESMOKING INSTITUTE SP. Z O.O., PL
[85] 2022-09-26
[86] 2021-06-09 (PCT/EP2021/065441)
[87] (WO2021/250086)
[30] PL (P.434276) 2020-06-10

[21] **3,173,385**
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE**
[54] **DISPOSITIF DE FOURNITURE D'AEROSOL**
[72] THOMAS, MICHAEL, GB
[72] MCGRATH, CONOR, GB
[72] WARREN, LUKE, GB
[72] BUREAU, DAVID, GB
[72] BURGESS, JONATHAN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-09-15 (PCT/EP2021/075383)
[87] (WO2022/058384)
[30] GB (2014597.5) 2020-09-16

[21] **3,173,388**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/485 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION**
[72] BOHAM, SCOTT GEORGE, GB
[72] CHEN, PING CHOU, GB
[72] WOODMAN, TOM, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-05-28 (PCT/GB2021/051316)
[87] (WO2021/240173)
[30] GB (2008125.3) 2020-05-29
[30] GB (2101231.5) 2021-01-29

[21] **3,173,391**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/12 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61K 35/17 (2015.01) A61K 35/545 (2015.01)**
[25] EN
[54] **ENHANCEMENT OF ADOPTIVE CELL TRANSFER**
[54] **AMELIORATION DU TRANSFERT CELLULAIRE ADOPTIF**
[72] SCHUELLER, ALEXANDER, US
[72] KIPRIJANOV, SERGEJ, US
[72] DUMAUTHIOZ, NINA, US
[71] CELLVIE INC., US
[85] 2022-09-26
[86] 2021-04-02 (PCT/US2021/025643)
[87] (WO2021/203046)
[30] US (63/005,167) 2020-04-03

[21] **3,173,389**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/60 (2020.01)**
[25] EN
[54] **DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION**
[72] CHEN, PING CHOU, GB
[72] WOODMAN, TOM, GB
[72] LAI, SAM, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-05-11 (PCT/GB2021/051126)
[87] (WO2021/240131)
[30] GB (2008130.3) 2020-05-29

[21] **3,173,392**
[13] A1

[51] **Int.Cl. A61L 2/20 (2006.01)**
[25] FR
[54] **METHOD FOR VIRAL DISINFECTION OF AIR AND FOMITES IN A DEFINED SPACE**
[54] **PROCEDE DE DESINFECTION VIRALE DE L'AIR ET DES FOMITES DANS UN ESPACE DEFINI**
[72] MERCIER, DOMINIQUE, FR
[71] MERCIER, DOMINIQUE, FR
[85] 2022-09-26
[86] 2021-04-06 (PCT/EP2021/058858)
[87] (WO2021/198527)
[30] FR (FR2003335) 2020-04-03

Demandes PCT entrant en phase nationale

[21] **3,173,395**
[13] A1

[51] **Int.Cl. C12N 9/02 (2006.01) C12P 17/16 (2006.01)**
[25] EN
[54] **IMPROVED POLYPEPTIDES CAPABLE OF CONVERTING SUBSTRATE 3-KETO-DEOXYNIVALENOL INTO 3-EPI-DEOXYNIVALENOL**
[54] **POLYPEPTIDES AMELIORES CAPABLES DE CONVERTIR DU 3-CETO-DESOXYNIVALENOL DE SUBSTRAT EN 3-EPI-DESOXYNIVALENOL**
[72] NEUMAYER, BERNHARD, AT
[72] STREIT, ELISABETH, AT
[72] WEBER, BARBARA, AT
[72] VOGTENTANZ, GUDRUN, AT
[71] DSM AUSTRIA GMBH, AT
[85] 2022-09-26
[86] 2021-06-08 (PCT/EP2021/065238)
[87] (WO2021/249980)
[30] EP (20178702.5) 2020-06-08

[21] **3,173,396**
[13] A1

[51] **Int.Cl. A23C 9/152 (2006.01) C12N 5/071 (2010.01) A23L 33/10 (2016.01) C07K 16/06 (2006.01) C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 1/42 (2006.01)**
[25] EN
[54] **MILK PRODUCT COMPOSITIONS**
[54] **COMPOSITIONS DE PRODUIT LAITIER**
[72] STRICKLAND, LEILA, US
[71] BIOMILQ, INC., US
[85] 2022-09-26
[86] 2021-05-26 (PCT/US2021/034267)
[87] (WO2021/242866)
[30] US (63/030,149) 2020-05-26
[30] US (63/200,480) 2021-03-09
[30] US (17/301,216) 2021-03-29

[21] **3,173,397**
[13] A1

[51] **Int.Cl. H04W 4/00 (2018.01)**
[25] EN
[54] **METHODS AND DEVICES FOR SUPPORTING REMOTE SCAN AND PRIORITY OPERATIONS**
[54] **PROCEDES ET DISPOSITIFS PERMETTANT DE PRENDRE EN CHARGE DES OPERATIONS DE BALAYAGE ET DE PRIORITE A DISTANCE**
[72] MARTINOVICH, KRIS K., US
[72] MCDONALD, DANIEL J., US
[72] VARELA, RUTH A., US
[72] MILLS, DAVID R., US
[72] ALMASI, ANDOR, US
[71] MOTOROLA SOLUTIONS, INC., US
[85] 2022-09-26
[86] 2021-04-06 (PCT/US2021/025895)
[87] (WO2021/207140)
[30] US (16/842,647) 2020-04-07

[21] **3,173,398**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 16/215 (2019.01)**
[25] EN
[54] **DATA PROCESSING FOR INDUSTRIAL MACHINE LEARNING**
[54] **TRAITEMENT DE DONNEES POUR APPRENTISSAGE MACHINE INDUSTRIEL**
[72] KLOEPPER, BENJAMIN, DE
[72] SCHMIDT, BENEDIKT, DE
[72] AMIHAI, IDO, DE
[72] CHIOUA, MONCEF, CA
[72] SCHLAKE, JAN CHRISTOPH, DE
[72] KOTRIWALA, ARZAM MUZAFFAR, DE
[72] HOLLENDER, MARTIN, DE
[72] JANKA, DENNIS, DE
[72] LENDERS, FELIX, DE
[72] ABUKWAIK, HADIL, DE
[71] ABB SCHWEIZ AG, CH
[85] 2022-09-26
[86] 2021-03-10 (PCT/EP2021/056093)
[87] (WO2021/197782)
[30] EP (PCT/EP2020/059135) 2020-03-31

[21] **3,173,399**
[13] A1

[51] **Int.Cl. A61K 47/60 (2017.01)**
[25] EN
[54] **BIFUNCTIONAL MOLECULES AND METHODS OF USING THEREOF**
[54] **MOLECULES BIFONCTIONNELLES ET LEURS METHODES D'UTILISATION**
[72] STEBBINS, NATHAN WILSON, US
[72] PORTNEY, BENJAMIN ANDREW, US
[72] VALEUR, ERIC BRUNO, US
[72] YUAN, CHIH-CHI, US
[72] GUTTMAN, MITCHELL, US
[71] FLAGSHIP PIONEERING, INC., US
[85] 2022-09-26
[86] 2021-03-24 (PCT/US2021/024008)
[87] (WO2021/195295)
[30] US (62/994,246) 2020-03-24

[21] **3,173,401**
[13] A1

[51] **Int.Cl. C22B 7/00 (2006.01) B01D 11/02 (2006.01) B01J 38/00 (2006.01) B29B 17/00 (2006.01) C08K 9/00 (2006.01) C08K 11/00 (2006.01) C22B 3/04 (2006.01)**
[25] EN
[54] **ELECTRONIC WASTE COMPOSITE ARTICLE OR MATERIAL AND PROCESS FOR MAKING SAME**
[54] **ARTICLE OU MATERIAU COMPOSITE DE DECHETS ELECTRONIQUES ET SON PROCEDE DE FABRICATION**
[72] LOGAN, AARON, CA
[72] SKINGLE, RYAN, CA
[72] DERKACZ, PATRICK R., CA
[72] SALIMI, HIWA, CA
[72] MORADI, LOGHMAN, CA
[72] MCAVOY, JESSICA MARIE, CA
[72] MOUSSA, ABIR CHAHRAZAD BORHOT, CA
[72] RAJABIAN, MAHMOUD, CA
[71] EXCIR WORKS CORP., CA
[85] 2022-09-26
[86] 2021-09-28 (PCT/CA2021/051351)
[87] (WO2022/061476)
[30] US (63/084,095) 2020-09-28

PCT Applications Entering the National Phase

[21] **3,173,403**
[13] A1

[51] **Int.Cl. F04C 18/12 (2006.01) F04C 25/02 (2006.01) F04C 29/00 (2006.01)**

[25] EN

[54] **DRY VACUUM PUMP**

[54] **POMPE A VIDE SECHE**

[72] MULLER, DIDIER, CH

[72] ILTCHEV, THEODORE, CH

[72] BACHMANN, ARTUR, DE

[71] ATELIERS BUSCH SA, CH

[85] 2022-09-26

[86] 2021-05-10 (PCT/EP2021/062383)

[87] (WO2021/228793)

[30] EP (PCT/EP2020/063009) 2020-05-11

[21] **3,173,404**
[13] A1

[51] **Int.Cl. B63B 39/02 (2006.01) B63B 39/14 (2006.01) B63B 43/08 (2006.01)**

[25] EN

[54] **WATERCRAFT WITH BATTERY BALLAST SYSTEM**

[54] **EMBARCATION EQUIPEE D'UN SYSTEME DE BALLAST DE BATTERIE**

[72] CORCORAN, JOHN F., US

[71] CORCORAN, MARY A., US

[71] CORCORAN, ELLEN T., US

[85] 2022-09-26

[86] 2021-03-24 (PCT/US2021/023877)

[87] (WO2021/202194)

[30] US (63/001,305) 2020-03-28

[21] **3,173,405**
[13] A1

[51] **Int.Cl. B65D 81/22 (2006.01)**

[25] EN

[54] **DEVICE TO RELEASE WATER AND ANTIMICROBIAL VAPOR INTO AN ENCLOSED OR PARTIALLY ENCLOSED SPACE**

[54] **DISPOSITIF DE LIBERATION D'EAU ET DE VAPEUR ANTIMICROBIENNE DANS UN ESPACE CLOS OU PARTIELLEMENT CLOS**

[72] BECKER, CHRISTIAN, US

[71] ARKEMA, INC., US

[85] 2022-09-26

[86] 2021-03-04 (PCT/US2021/020814)

[87] (WO2021/194713)

[30] US (63/000,556) 2020-03-27

[21] **3,173,406**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 48/00 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION FOR TREATING DEGENERATIVE BRAIN DISEASE, INCLUDING GLYCINE TRANSPORTER AS ACTIVE INGREDIENT**

[54] **COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT D'UNE MALADIE NEURODEGENERATIVE, CONTENANT UN TRANSPORTEUR DE GLYCINE COMME PRINCIPE ACTIF**

[72] KIM, SEONG MUK, KR

[72] PARK, SEONGJEONG, KR

[72] KIM, HYE-JU, KR

[72] KIM, YOUNGSOO, KR

[72] KIM, HYEYUN, KR

[71] AMYLOID SOLUTION INC., KR

[85] 2022-09-26

[86] 2021-03-22 (PCT/KR2021/003520)

[87] (WO2021/210798)

[30] KR (10-2020-0044988) 2020-04-14

[30] KR (10-2021-0031435) 2021-03-10

[21] **3,173,407**
[13] A1

[51] **Int.Cl. H01F 6/02 (2006.01) H01F 6/04 (2006.01)**

[25] EN

[54] **PASSIVE QUENCH PROTECTION TECHNIQUES FOR NON-INSULATED SUPERCONDUCTING MAGNETS**

[54] **TECHNIQUES DE PROTECTION CONTRE LA TREMPE PASSIVE POUR AIMANTS SUPRACONDUCTEURS NON ISOLES**

[72] LABOMBARD, BRIAN, US

[72] UPPALAPATI, KRISHNA KIRAN, US

[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[71] COMMONWEALTH FUSION SYSTEMS LLC, US

[85] 2022-09-26

[86] 2021-03-25 (PCT/US2021/024079)

[87] (WO2021/195330)

[30] US (63/000,381) 2020-03-26

[21] **3,173,408**
[13] A1

[51] **Int.Cl. A61K 9/107 (2006.01) A61K 39/39 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **SOLANESOL VACCINE ADJUVANTS AND METHODS OF PREPARING SAME**

[54] **ADJUVANTS DE VACCINS A BASE DE SOLANESOL ET LEURS PROCEDES DE PREPARATION**

[72] FOX, CHRISTOPHER BRADFORD, US

[71] ACCESS TO ADVANCED HEALTH INSTITUTE, US

[85] 2022-09-26

[86] 2021-10-16 (PCT/IB2021/059540)

[87] (WO2022/136952)

[30] US (63/130,366) 2020-12-23

[21] **3,173,409**
[13] A1

[51] **Int.Cl. G06F 9/451 (2018.01) G06F 3/048 (2013.01)**

[25] EN

[54] **ADAPTABLE GUI FOR DASHBOARD SOFTWARE**

[54] **INTERFACE UTILISATEUR GRAPHIQUE ADAPTABLE POUR LOGICIEL DE TABLEAU DE BORD**

[72] KLAHM, SEBASTIAN, DE

[71] BASF COATINGS GMBH, DE

[85] 2022-09-26

[86] 2021-05-04 (PCT/EP2021/061765)

[87] (WO2021/228632)

[30] EP (20173995.0) 2020-05-11

[21] **3,173,410**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 90/00 (2016.01) A61B 17/34 (2006.01) A61M 29/00 (2006.01)**

[25] EN

[54] **SHEATH ASSEMBLY AND/OR DILATOR ASSEMBLY**

[54] **ENSEMBLE GAINE ET/OU ENSEMBLE DILATATEUR**

[72] LEUNG, JACKIE, CA

[72] DAVIES, GARETH, CA

[71] BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED, IE

[85] 2022-09-26

[86] 2021-04-15 (PCT/IB2021/053119)

[87] (WO2021/214607)

[30] US (63/013,646) 2020-04-22

Demandes PCT entrant en phase nationale

[21] **3,173,411**
[13] A1

[51] **Int.Cl. A61K 31/30 (2006.01) A61K 8/44 (2006.01)**
[25] EN
[54] **MODULATING AN IMMUNE RESPONSE WITH CUPROUS COMPLEXES**
[54] **MODULATION D'UNE REPOSE IMMUNITAIRE AVEC DES COMPLEXES CUIVREUX**
[72] BARKER, CHARLES LOUIS ALBARTUS, US
[71] C LAB PHARMA INTERNATIONAL, S.A., VG
[85] 2022-09-26
[86] 2021-03-24 (PCT/IB2021/052459)
[87] (WO2021/191826)
[30] US (62/994,251) 2020-03-24

[21] **3,173,412**
[13] A1

[51] **Int.Cl. A61B 5/257 (2021.01)**
[25] EN
[54] **DEVICES, SYSTEMS AND METHODS FOR MONITORING PHYSIOLOGICAL CHARACTERISTICS OF A PATIENT**
[54] **DISPOSITIFS, SYSTEMES ET METHODES POUR SURVEILLER DES CARACTERISTIQUES D'UN PATIENT**
[72] CHEN, FANG, AU
[72] SRIRAM, SHARATH, AU
[72] DIMOPOULOS, BILL, AU
[71] VLEPIS SOLUTIONS PTY LTD, AU
[85] 2022-09-26
[86] 2021-03-25 (PCT/AU2021/050266)
[87] (WO2021/189108)
[30] AU (2020900903) 2020-03-25
[30] AU (2020904836) 2020-12-24

[21] **3,173,413**
[13] A1

[51] **Int.Cl. B03B 9/06 (2006.01) B02C 17/10 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SEPARATING DUST-CONTAINING MATERIAL MIXTURES FROM THE PROCESS OF RECYCLING ELECTRIC OR ELECTRONIC DEVICES**
[54] **PROCEDE ET SYSTEME POUR SEPARER DES MELANGES DE MATERIAUX CONTENANT DE LA POUSSIERE EN PROVENANCE DU PROCESSUS DE RECYCLAGE DE DISPOSITIFS ELECTRIQUES OU ELECTRONIQUES**
[72] SCHONS, MARC, DE
[72] SCHONS, GEORG, DE
[72] RESKE, HENRIK, DE
[71] SCHONS, GEORG, DE
[85] 2022-09-26
[86] 2021-03-15 (PCT/EP2021/056457)
[87] (WO2021/190964)
[30] DE (10 2020 108 204.5) 2020-03-25

[21] **3,173,414**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **PD-1 AGONIST MULTIMERIC BINDING MOLECULES**
[54] **MOLECULES DE LIAISON MULTIMERES AGONISTES DE PD-1**
[72] KEYT, BRUCE, US
[72] METZGER, TODD, US
[72] SINCLAIR, ANGUS, US
[71] IGM BIOSCIENCES, INC., US
[85] 2022-09-26
[86] 2021-04-21 (PCT/US2021/028459)
[87] (WO2021/216756)
[30] US (63/014,023) 2020-04-22
[30] US (63/050,413) 2020-07-10
[30] US (63/144,708) 2021-02-02

[21] **3,173,415**
[13] A1

[51] **Int.Cl. H04L 12/16 (2006.01) H04W 16/00 (2009.01) H04W 4/90 (2018.01) G16Y 30/00 (2020.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SIGNALING COMMUNICATION CONFIGURATION FOR IOT DEVICES USING MANUFACTURER USAGE DESCRIPTION FILES**
[54] **PROCEDE ET SYSTEME DE SIGNALISATION DE CONFIGURATION DE COMMUNICATION POUR DES DISPOSITIFS IDO AU MOYEN DE FICHIERS DE DESCRIPTION D'UTILISATION DE FABRICANT**
[72] VANDERVEEN, MICHAELA, CA
[72] BARRETT, STEPHEN JOHN, CA
[71] BLACKBERRY LIMITED, CA
[85] 2022-09-26
[86] 2021-04-23 (PCT/CA2021/050561)
[87] (WO2021/232144)
[30] US (16/880,252) 2020-05-21

[21] **3,173,416**
[13] A1

[51] **Int.Cl. A01F 15/07 (2006.01)**
[25] EN
[54] **ROUND BALER**
[54] **PRESSE A BALLEES RONDES**
[72] VAN DEN HURK, NICK FRANCISCUS JOHANNES, NL
[72] VAN DEN BOOMEN, BENNY PETRUS LAMBERTUS MARTINUS, NL
[71] KUHN GELDROPP BV, NL
[85] 2022-09-26
[86] 2021-04-26 (PCT/EP2021/060808)
[87] (WO2021/219534)
[30] GB (2006124.8) 2020-04-27

PCT Applications Entering the National Phase

[21] **3,173,417**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61P 3/10 (2006.01) C07F 5/02 (2006.01) C07K 14/62 (2006.01)**

[25] EN

[54] **CONJUGATES FOR SELECTIVE RESPONSIVENESS TO VICINAL DIOLS**

[54] **CONJUGUES POUR UNE REACTIVITE SELECTIVE A DES DIOLS VICINAUX**

[72] MAHDAVI, ALBORZ, US

[72] SPENCER, RYAN KELLY, US

[72] HALE, JACK JOSEPH, US

[72] LIANG, JINGXIN, US

[72] SHAKER, MIRNA EKRAM ANWAR, US

[72] CHEN, DIAO, US

[72] MALI, SACHITANAND, US

[71] PROTOMER TECHNOLOGIES INC., US

[85] 2022-09-26

[86] 2021-03-31 (PCT/US2021/025261)

[87] (WO2021/202802)

[30] US (63/002,662) 2020-03-31

[21] **3,173,418**
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/532 (2006.01) G01N 33/561 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **DEVICE AND METHODS FOR RAPID DETECTION OF TARGET ANALYTES IN A BIOLOGICAL SAMPLE**

[54] **DISPOSITIF ET PROCEDES DE DETECTION RAPIDE D'ANALYTES CIBLES DANS UN ECHANTILLON BIOLOGIQUE**

[72] MOHANTY, PRAVANSU S., US

[72] WANG, ZHUORAN, US

[72] DAS, SUBHENDU, US

[72] TAVERNER, YOLANDA, US

[72] REDDY, ARUN, US

[72] JOSHI, PALLAVI, US

[72] AMLE, SHRUTI, US

[72] MANTYLA, JENNY, US

[72] BRONSART, LAURA, US

[72] RETZLAFF, MARY, US

[71] UPKARA, INC., US

[85] 2022-09-26

[86] 2021-03-31 (PCT/US2021/025115)

[87] (WO2021/202685)

[30] US (63/002,873) 2020-03-31

[30] US (63/051,668) 2020-07-14

[21] **3,173,419**
[13] A1

[51] **Int.Cl. C12N 11/14 (2006.01) C12N 11/18 (2006.01)**

[25] EN

[54] **MODULAR GLYCAN PRODUCTION WITH IMMOBILIZED BIONANOCATALYSTS**

[54] **PRODUCTION MODULAIRE DE GLYCANES A L'AIDE DE BIONANOCATALYSEURS IMMOBILISES**

[72] CORGIE, STEPHANE CEDRIC, US

[72] HOEPKER, ALEXANDER CHRIS, US

[71] ZYMTRONIX CATALYTIC SYSTEMS, INC., US

[85] 2022-09-26

[86] 2021-12-01 (PCT/US2021/061493)

[87] (WO2022/119982)

[30] US (63/120,669) 2020-12-02

[21] **3,173,420**
[13] A1

[51] **Int.Cl. C04B 35/26 (2006.01)**

[25] FR

[54] **METHOD FOR PRODUCING A NICKEL ZINC COBALT SPINEL FERRITE IN CERAMIC FORM**

[54] **PROCEDE D'OBTENTION D'UN FERRITE SPINELLE DE NICKEL ZINC COBALT SOUS FORME CERAMIQUE**

[72] MATTEI, JEAN-LUC, FR

[72] SOURIOU, DAVID, FR

[71] UNIVERSITE BREST BRETAGNE OCCIDENTALE, FR

[85] 2022-09-26

[86] 2021-03-30 (PCT/EP2021/058371)

[87] (WO2021/198302)

[30] FR (FR2003212) 2020-03-31

[21] **3,173,421**
[13] A1

[51] **Int.Cl. G16B 20/00 (2019.01) G16H 50/30 (2018.01) G06N 20/00 (2019.01) G16B 40/00 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PERFORMING A GENOTYPE-BASED ANALYSIS OF AN INDIVIDUAL**

[54] **SYSTEMES ET PROCEDES POUR EFFECTUER UNE ANALYSE BASEE SUR LE GENOTYPE D'UN INDIVIDU**

[72] MOHAMMED, MANSOOR, CA

[72] SIDDIQUI, KASHIF, CA

[72] LIEPERT, DAVID, CA

[72] KHAN, KASHIF, CA

[71] THE DNA COMPANY INC., CA

[85] 2022-09-26

[86] 2021-05-03 (PCT/CA2021/050613)

[87] (WO2021/223017)

[30] US (63/021,237) 2020-05-07

[21] **3,173,423**
[13] A1

[51] **Int.Cl. C12N 5/0789 (2010.01) A61K 35/12 (2015.01) A61K 35/28 (2015.01)**

[25] EN

[54] **METHODS OF GENERATING HEMATOPOIETIC CELL PREPARATIONS**

[54] **PROCEDES DE GENERATION DE PREPARATIONS DE CELLULES HEMATOPOIETIQUES**

[72] LIAN, XIAOJUN, US

[72] RANDOLPH, LAUREN NICOLE, US

[72] JIANG, YUQIAN, US

[71] THE PENN STATE RESEARCH FOUNDATION, US

[85] 2022-09-26

[86] 2021-06-22 (PCT/US2021/038450)

[87] (WO2021/262698)

[30] US (63/042,071) 2020-06-22

[30] US (63/152,605) 2021-02-23

Demandes PCT entrant en phase nationale

[21] **3,173,424**
[13] A1

[51] **Int.Cl. G06F 8/30 (2018.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ENABLING MULTI-LEVEL REAL-TIME COLLABORATION IN GAME ENGINES SUPPORTING HETEROGENEOUS PROJECT STATES**
[54] **PROCEDE ET SYSTEME POUR PERMETTRE UNE COLLABORATION EN TEMPS REEL A PLUSIEURS NIVEAUX DANS DES MOTEURS DE JEU PRENANT EN CHARGE DES ETATS DE PROJET HETEROGENES**
[72] MCMICHAEL, JUSTIN, CA
[72] PUSHAK, ALYOSHA, CA
[72] GUO, YIPIN, CA
[72] HOVDE, GREGORY, CA
[71] KINEMATICSOUPOUR TECHNOLOGIES INC., CA
[85] 2022-09-26
[86] 2021-03-29 (PCT/CA2021/050412)
[87] (WO2021/189157)
[30] US (63/000,519) 2020-03-27

[21] **3,173,425**
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) A61K 35/12 (2015.01) A61K 35/14 (2015.01) A61K 35/50 (2015.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **MITOCHONDRIAL AUGMENTATION THERAPY**
[54] **THERAPIE D'AUGMENTATION MITOCHONDRIALE**
[72] YIVGI-OHANA, NATALIE, IL
[72] SHER, NOA, IL
[72] BLUMKIN, MORIYA, IL
[71] MINOVIA THERAPEUTICS LTD., IL
[85] 2022-09-26
[86] 2021-03-29 (PCT/IL2021/050349)
[87] (WO2021/199032)
[30] US (63/003,174) 2020-03-31
[30] US (63/118,569) 2020-11-25

[21] **3,173,426**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR TIME-VARIANT VARIABLE PREDICTION AND MANAGEMENT FOR SUPPLIER PROCUREMENT**
[54] **PROCEDES ET SYSTEMES DE PREDICTION ET DE GESTION DE VARIABLE TEMPORELLE D'APPROVISIONNEMENT DE FOURNISSEUR**
[72] STONE, SOPHIA GABRIELLE CONTRERAS, CA
[72] SCOUFARIS, JOHN SYMEON, CA
[71] INDIE TECH LIMITED, CA
[85] 2022-09-26
[86] 2022-02-03 (PCT/CA2022/050153)
[87] (WO2022/174329)
[30] US (17/177,478) 2021-02-17

[21] **3,173,428**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **TRAINING AN ARTIFICIAL INTELLIGENCE MODULE FOR INDUSTRIAL APPLICATIONS**
[54] **FORMATION D'UN MODULE D'INTELLIGENCE ARTIFICIELLE POUR APPLICATIONS INDUSTRIELLES**
[72] AMIHAI, IDO, DE
[72] KOTRIWALA, ARZAM MUZAFFAR, DE
[72] CHIOUA, MONCEF, CA
[72] LENDERS, FELIX, DE
[72] JANKA, DENNIS, DE
[72] HOLLENDER, MARTIN, DE
[72] SCHLAKE, JAN CHRISTOPH, DE
[72] ABUKWAIK, HADIL, DE
[72] KLOEPPER, BENJAMIN, DE
[71] ABB SCHWEIZ AG, CH
[85] 2022-09-26
[86] 2021-03-10 (PCT/EP2021/056099)
[87] (WO2021/197783)
[30] EP (PCT/EP2020/059136) 2020-03-31

[21] **3,173,429**
[13] A1

[51] **Int.Cl. C12N 15/50 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/165 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE PREVENTION AND/OR TREATMENT OF COVID-19**
[54] **COMPOSITIONS ET METHODES POUR PREVENIR ET/OU TRAITER LA COVID-19**
[72] MARCUSSON, ERIC G., CA
[72] ABIOYE, JUMAI ADEOLA, CA
[72] MARTIN OROZCO, NATALIA, CA
[72] ARITA, YUKO, CA
[71] PROVIDENCE THERAPEUTICS HOLDINGS INC., CA
[85] 2022-09-26
[86] 2021-10-08 (PCT/CA2021/051419)
[87] (WO2022/073131)
[30] CA (3096009) 2020-10-09
[30] CA (3107232) 2021-01-26
[30] CA (3113094) 2021-03-23
[30] CA (3116284) 2021-04-23
[30] CA (3116932) 2021-04-30
[30] CA (3118329) 2021-05-12
[30] CA (3128078) 2021-08-09
[30] CA (3128660) 2021-08-19
[30] CA (3132188) 2021-09-28

[21] **3,173,430**
[13] A1

[51] **Int.Cl. B60L 53/54 (2019.01) B60L 53/50 (2019.01) H01M 8/24 (2016.01)**
[25] EN
[54] **COMBINED HYDROGEN FUEL CELL FOR VEHICLE FUELING, ELECTRIC VEHICLE FAST CHARGING AND FUEL CELL BACK-UP POWER FORECOURT**
[54] **PILE A COMBUSTIBLE A HYDROGENE COMBINEE POUR L'ALIMENTATION EN CARBURANT DE VEHICULES, CHARGE RAPIDE DE VEHICULES ELECTRIQUES ET PARVIS DE SECOURS DE PILE A COMBUSTIBLE**
[72] VOLK, JAMES JOSEPH, US
[72] WENCK, JAMES M., US
[72] TAYLOR, FRED, US
[71] GHD, INC., US
[85] 2022-09-26
[86] 2022-01-14 (PCT/US2022/012424)
[87] (WO2022/159338)
[30] US (63/139,952) 2021-01-21
[30] US (17/574,840) 2022-01-13

PCT Applications Entering the National Phase

[21] **3,173,432**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) C07D 498/04 (2006.01) C07D 498/10 (2006.01)**

[25] EN
[54] **RIP1K INHIBITORS**
[54] **INHIBITEURS DE RIP1K**
[72] DARWISH, IHAB, US
[72] LUO, ZHUSHOU, US
[72] TAYLOR, VANESSA, US
[71] RIGEL PHARMACEUTICALS, INC., US
[85] 2022-09-26
[86] 2021-04-02 (PCT/US2021/025598)
[87] (WO2021/203011)
[30] US (63/004,404) 2020-04-02

[21] **3,173,433**
[13] A1

[51] **Int.Cl. C01F 17/36 (2020.01) H01M 10/0525 (2010.01) H01M 10/0562 (2010.01) H01M 10/0565 (2010.01) H01B 1/06 (2006.01) H01M 4/62 (2006.01)**

[25] EN
[54] **NEW LITHIUM RARE-EARTH HALIDES**
[54] **NOUVEAUX HALOGENURES DE LITHIUM DES TERRES RARES**
[72] BRAIDA, MARC-DAVID, FR
[71] SOLVAY SA, BE
[85] 2022-09-26
[86] 2021-04-12 (PCT/EP2021/059427)
[87] (WO2021/209380)
[30] EP (20169464.3) 2020-04-14
[30] EP (20169467.6) 2020-04-14

[21] **3,173,434**
[13] A1

[51] **Int.Cl. H04W 4/06 (2009.01)**

[25] EN
[54] **SESSION PROCESSING METHOD AND DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT DE SESSION, ET SUPPORT DE STOCKAGE**
[72] LIU, JIANHUA, CN
[72] YANG, HAORUI, CN
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS COPR., LTD: OPPO, CN
[85] 2022-09-26
[86] 2020-04-10 (PCT/CN2020/084121)
[87] (WO2021/203398)

[21] **3,173,436**
[13] A1

[51] **Int.Cl. A61K 36/899 (2006.01) A23L 7/20 (2016.01) A61K 31/196 (2006.01) A61P 9/02 (2006.01)**

[25] EN
[54] **A CONSUMABLE PRODUCT COMPRISING MALTED CEREALS FOR PROMOTING RECOVERY AT PHYSICAL ACTIVITY**
[54] **PRODUIT CONSOMMABLE COMPRENANT DES CEREALES MALTEES POUR FAVORISER LA RECUPERATION A L'ACTIVITE PHYSIQUE**
[72] GORANSSON, LEIF, SE
[71] LANTMANNEN FUNCTIONAL FOODS AB, SE
[85] 2022-09-26
[86] 2021-03-26 (PCT/EP2021/057975)
[87] (WO2021/191431)
[30] SE (2030098-4) 2020-03-26

[21] **3,173,437**
[13] A1

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

[25] EN
[54] **LOCK AND SWITCH CONTROLLER SYSTEM, LOCK AND SWITCH DEVICE WITH OFFLINE RESPONSIVENESS, LOCK AND SWITCH CONTROLLER SYSTEM WITH FLEXIBLE COMMANDS**
[54]
[72] KUSHNIR, MARAT, CA
[71] KUSHNIR, MARAT, CA
[85] 2022-09-26
[86] 2022-05-02 (PCT/US2022/027246)
[87] (3173437)
[30] US (17673069) 2022-02-16
[30] US (17/321,942) 2021-05-17

[21] **3,173,438**
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/558 (2006.01) G01N 33/569 (2006.01)**

[25] EN
[54] **METHOD FOR DETECTION OF CD16B**
[54] **PROCEDE DE DETECTION DE CD16B**
[72] AHMAD, SAIF, GB
[71] 52 NORTH HEALTH LTD, GB
[85] 2022-09-26
[86] 2021-04-01 (PCT/GB2021/050813)
[87] (WO2021/198693)
[30] GB (2004972.2) 2020-04-03

[21] **3,173,439**
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) A61K 47/10 (2017.01) A61L 2/20 (2006.01)**

[25] EN
[54] **APPARATUS AND METHODS FOR INACTIVATING BACTERIA ON SURFACES AND MAMMALIAN TISSUE**
[54] **APPAREIL ET PROCEDES D'INACTIVATION DE BACTERIES SUR DES SURFACES ET DES TISSUS DE MAMMIFERES**
[72] BEASLEY, DENNY D., US
[71] BEASLEY, DENNY D., US
[85] 2022-09-26
[86] 2021-04-05 (PCT/US2021/025763)
[87] (WO2021/203091)
[30] US (63/005,139) 2020-04-03

[21] **3,173,440**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 90/00 (2016.01) A61B 17/34 (2006.01) A61B 18/00 (2006.01) A61B 18/12 (2006.01) A61B 18/14 (2006.01)**

[25] EN
[54] **AN ELECTROSURGICAL DEVICE WITH AUTOMATIC SHUT-OFF**
[54] **DISPOSITIF ELECTROCHIRURGICAL A ARRET AUTOMATIQUE**
[72] DICICCO, MATTHEW, CA
[72] DAVIES, GARETH, CA
[72] URBANSKI, JOHN PAUL, CA
[72] MORIYAMA, EDUARDO, CA
[72] RYAN, PATRICK, CA
[72] MOK, DANIEL WING FAI, CA
[72] TYLER, BRANDON, CA
[71] BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED, IE
[85] 2022-09-26
[86] 2021-05-06 (PCT/IB2021/053876)
[87] (WO2021/229383)
[30] US (63/022,842) 2020-05-11

Demandes PCT entrant en phase nationale

[21] **3,173,441**
[13] A1

[51] **Int.Cl. A61K 35/60 (2006.01) A61K 36/889 (2006.01)**

[25] EN

[54] **NOVEL ANHYDROUS COMPOSITIONS COMPRISED OF MARINE OILS**

[54] **NOUVELLES COMPOSITIONS ANHYDRES CONSTITUEES D'HUILES MARINES**

[72] BETTLE, III GRISCOM, US
[72] INMAN, MICHAEL C., US
[72] KITLOWSKI, SARAH M., US
[71] OMEZA HOLDINGS, INC., US
[85] 2022-09-26
[86] 2021-04-20 (PCT/US2021/028056)
[87] (WO2021/216480)
[30] US (63/013,167) 2020-04-21

[21] **3,173,443**
[13] A1

[51] **Int.Cl. G16H 20/60 (2018.01) G16H 50/20 (2018.01) G16H 50/70 (2018.01)**

[25] EN

[54] **IMPROVED METHOD FOR DETERMINING BLOOD GLUCOSE RESPONSES**

[54] **PROCEDE AMELIORE POUR DETERMINER DES REponses A LA GLYCEMIE**

[72] TWESTEN, CHRISTOPH, DE
[72] SCHRODER, TORSTEN, DE
[72] LEITOW, FYNN MARLIN, DE
[71] PERFOOD GMBH, DE
[85] 2022-09-26
[86] 2021-04-16 (PCT/EP2021/059992)
[87] (WO2021/209630)
[30] EP (20170160.4) 2020-04-17

[21] **3,173,445**
[13] A1

[51] **Int.Cl. B65B 41/06 (2006.01) B65B 43/14 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MOVING AND UNBUNDLING A CARTON STACK**

[54] **SYSTEME ET PROCEDE POUR DEPLACER ET DEGROUper UNE PILE DE CARTONS**

[72] FUSY, BASTIEN, FR
[71] FLEXLINK AB, SE
[85] 2022-09-26
[86] 2021-04-01 (PCT/EP2021/058759)
[87] (WO2021/198489)
[30] EP (20315118.8) 2020-04-03

[21] **3,173,442**
[13] A1

[51] **Int.Cl. A61C 1/00 (2006.01) A61L 2/18 (2006.01) A61L 2/24 (2006.01) B08B 9/032 (2006.01)**

[25] EN

[54] **AUTOMATIC ACTIVATION OF FLUSHING MODE IN DENTAL SYSTEMS**

[54] **ACTIVATION AUTOMATIQUE DE MODE DE RINCAGE DANS DES SYSTEMES DENTAIRES**

[72] IRVING, MICHAEL, US
[72] NELSON, BRADLEY, US
[72] PETERSON, BRETT, US
[72] WARNEKE, SPENCER, US
[71] A-DEC, INC., US
[85] 2022-09-26
[86] 2021-12-15 (PCT/US2021/063631)
[87] (WO2022/146695)
[30] US (17/139,744) 2020-12-31

[21] **3,173,444**
[13] A1

[51] **Int.Cl. G01N 27/16 (2006.01)**

[25] EN

[54] **GAS MEASURING DEVICE AND PROCESS FOR MEASURING CYANOGEN IN THE PRESENCE OF HYDROGEN CYANIDE**

[54] **DISPOSITIF DE MESURE DE GAZ ET PROCEDE DE MESURE DE CYANOGENE EN PRESENCE DE CYANURE D'HYDROGENE**

[72] HAUPT, STEPHAN, DE
[72] NAUBER, ANDREAS, DE
[72] SICK, MICHAEL, DE
[72] REIER, TOBIAS, DE
[72] RITTEMANN, STEFFEN, DE
[71] DRAGER SAFETY AG & CO. KGAA, DE
[85] 2022-09-26
[86] 2021-05-27 (PCT/EP2021/064203)
[87] (WO2021/244941)
[30] DE (10 2020 114 982.4) 2020-06-05

[21] **3,173,446**
[13] A1

[51] **Int.Cl. H04W 4/024 (2018.01) H04W 4/40 (2018.01) B60R 25/01 (2013.01) G01S 5/18 (2006.01)**

[25] EN

[54] **COMPUTER SYSTEM FOR UTILIZING ULTRASONIC SIGNALS TO IMPLEMENT OPERATIONS FOR AUTONOMOUS VEHICLES**

[54] **SYSTEME INFORMATIQUE PERMETTANT D'UTILISER DES SIGNAUX ULTRASONORES POUR IMPLEMENTER DES OPERATIONS POUR VEHICLES AUTONOMES**

[72] FETTER, JACOB, US
[71] UATC, LLC, US
[85] 2022-09-26
[86] 2021-02-16 (PCT/US2021/018249)
[87] (WO2021/194657)
[30] US (16/828,632) 2020-03-24

PCT Applications Entering the National Phase

[21] **3,173,447**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G01N 27/327 (2006.01) G01N 33/497 (2006.01)**

[25] EN

[54] **ELECTROCHEMICAL SENSOR ARRANGEMENT, BREATH ALCOHOL MEASURING DEVICE AND PROCESS FOR DETERMINING A VITALITY OF ELECTRODES OF AN ELECTROCHEMICAL SENSOR**

[54] **ENSEMBLE CAPTEUR ELECTROCHIMIQUE, ETHYLOMETRE ET PROCEDE DE DETERMINATION D'UNE VITALITE D'ELECTRODES D'UN CAPTEUR ELECTROCHIMIQUE**

[72] BAESLER, MALTE, DE

[71] DRAGER SAFETY AG & CO. KGAA, DE

[85] 2022-09-26

[86] 2021-05-27 (PCT/EP2021/064198)

[87] (WO2021/254760)

[30] DE (10 2020 115 804.1) 2020-06-16

[21] **3,173,448**
[13] A1

[51] **Int.Cl. A47D 9/02 (2006.01) A47D 13/10 (2006.01) A63G 9/04 (2006.01)**

[25] EN

[54] **SWING APPARATUS WITH MAGNETIC DRIVE AND CONTROL**

[54] **APPAREIL OSCILLANT A ENTRAINEMENT MAGNETIQUE ET COMMANDE**

[72] MOUNTZ, JONATHAN K., US

[72] SNYDER, ETHAN M., US

[71] WONDERLAND SWITZERLAND AG, CH

[85] 2022-09-26

[86] 2021-03-29 (PCT/US2021/024560)

[87] (WO2021/195606)

[30] US (63/000,743) 2020-03-27

[30] US (63/012,999) 2020-04-21

[30] US (63/041,172) 2020-06-19

[30] US (63/127,575) 2020-12-18

[21] **3,173,449**
[13] A1

[51] **Int.Cl. C25B 3/25 (2021.01) C25B 15/023 (2021.01) C25B 1/02 (2006.01) C25B 15/08 (2006.01)**

[25] FR

[54] **DEVICE FOR CONVERTING BIOMASS TO A REDUCED MEDIATOR, SYSTEM FOR CONVERTING BIOMASS INTO DIHYDROGEN COMPRISING SAME, AND ASSOCIATED PROCESS**

[54] **DISPOSITIF DE CONVERSION DE BIOMASSE EN MEDIEUR REDUIT, SYSTEME DE CONVERSION DE BIOMASSE EN DIHYDROGENE LE COMPRENANT, ET PROCEDE ASSOCIE**

[72] BELLEVILLE, PIERRE, FR

[72] DESEURE, JONATHAN, FR

[72] MERLIN, GERARD, FR

[71] UNIVERSITE GRENOBLE ALPES, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR

[71] INSTITUT POLYTECHNIQUE DE GRENOBLE, FR

[71] UNIVERSITE SAVOIE MONT BLANC, FR

[85] 2022-09-26

[86] 2021-03-30 (PCT/EP2021/058282)

[87] (WO2021/198251)

[30] FR (FR2003204) 2020-03-31

[21] **3,173,450**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/005 (2006.01) C12N 7/00 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **HIGH THROUGHPUT ENGINEERING OF FUNCTIONAL AAV CAPSIDS**

[54] **INGENIERIE A HAUT RENDEMENT DE CAPSIDES AAV FONCTIONNELLES**

[72] VIGNEAULT, FRANCOIS, US

[72] PACKARD, THOMAS, US

[72] HUSS, DAVID JEFFREY, US

[72] STEIN, KEVIN CHRISTOPHER, US

[71] SHAPE THERAPEUTICS INC., US

[85] 2022-09-26

[86] 2021-05-26 (PCT/US2021/034329)

[87] (WO2021/242909)

[30] US (63/030,038) 2020-05-26

[30] US (63/119,554) 2020-11-30

[30] US (63/134,885) 2021-01-07

[30] US (63/181,037) 2021-04-28

[21] **3,173,451**
[13] A1

[51] **Int.Cl. B23K 37/00 (2006.01) B23K 26/042 (2014.01) G06V 20/50 (2022.01) B23K 26/03 (2006.01) B23K 26/08 (2014.01) B25J 9/16 (2006.01) B25J 19/02 (2006.01) B25J 19/04 (2006.01) G01B 11/00 (2006.01) G06T 5/00 (2006.01) G06T 7/00 (2017.01) H04N 7/18 (2006.01)**

[25] EN

[54] **SYSTEM FOR WELDING AT LEAST A PORTION OF A PIECE AND RELATED METHODS**

[54]

[72] BERARD, LOUIS, CA

[72] DALLAIRE, MATS, CA

[72] DALLAIRE, JOLAIN, CA

[71] POLY-ROBOTICS INC., CA

[85] 2022-09-26

[86] 2022-03-29 (PCT/CA2022/050465)

[87] (3173451)

[30] US (63/200.778) 2021-03-29

Demandes PCT entrant en phase nationale

[21] **3,173,452**
[13] A1

[51] **Int.Cl. A61B 6/08 (2006.01) A61L 2/10 (2006.01) A61M 25/00 (2006.01) A61N 5/06 (2006.01) H05G 1/42 (2006.01)**

[25] EN

[54] **ULTRAVIOLET RADIATION TREATMENTS**

[54] **TRAITEMENTS PAR RAYONNEMENT ULTRAVIOLET**

[72] RAMIREZ-FORT, MARIGDALIA KALETH, US

[72] FORT, MIGDALIA, US

[71] RAMIREZ-FORT, MARIGDALIA KALETH, US

[71] FORT, MIGDALIA, US

[85] 2022-09-26

[86] 2021-03-26 (PCT/US2021/024520)

[87] (WO2021/195586)

[30] US (63/000,302) 2020-03-26

[30] US (63/161,161) 2021-03-15

[30] US (63/040,134) 2020-06-17

[21] **3,173,453**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6886 (2018.01) G16B 20/00 (2019.01) G16B 30/20 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DISTINGUISHING PATHOLOGICAL MUTATIONS FROM CLONAL HEMATOPOIETIC MUTATIONS IN PLASMA CELL-FREE DNA BY FRAGMENT SIZE ANALYSIS**

[54] **SYSTEMES ET PROCEDES POUR DISTINGUER DES MUTATIONS PATHOLOGIQUES DE MUTATIONS HEMATOPOIETIQUES CLONALES DANS UN ADN LIBRE CIRCULANT PAR ANALYSE DE TAILLE DE FRAGMENT**

[72] TSUI, WAI YI, US

[72] MARASS, FRANCESCO, US

[72] DIAZ, JR. LUIS, US

[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US

[85] 2022-09-26

[86] 2021-03-18 (PCT/US2021/022921)

[87] (WO2021/194837)

[30] US (63/000,426) 2020-03-26

[21] **3,173,454**
[13] A1

[51] **Int.Cl. B65B 13/32 (2006.01)**

[25] EN

[54] **FUSION WELDING DEVICE**

[54] **DISPOSITIF DE SOUDAGE PAR FUSION**

[72] HE, YUHUA, CN

[72] JIANG, SHUIBO, CN

[71] TAIZHOU YONGPAI PACK EQUIPMENT CO., LTD., CN

[85] 2022-09-26

[86] 2021-02-19 (PCT/CN2021/076809)

[87] (WO2021/203844)

[30] CN (202010273335.6) 2020-04-09

[30] CN (202120322629.3) 2021-02-03

[21] **3,173,455**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/18 (2006.01) C12M 1/32 (2006.01) C12M 1/34 (2006.01) C12M 1/42 (2006.01) C12M 3/00 (2006.01) C12N 1/00 (2006.01) C12N 5/00 (2006.01) C12Q 1/00 (2006.01) G01N 1/00 (2006.01) G01N 21/03 (2006.01)**

[25] EN

[54] **MULTI-WELL DEVICE, KITS AND METHODS FOR ANALYSIS OF CELLS**

[54] **DISPOSITIF A PUIITS MULTIPLES, KITS ET PROCEDES D'ANALYSE DE CELLULES**

[72] GEORGE, SUBIN MAC, CA

[72] MAGDESIAN, MARGARET HAIGANOUCHE, CA

[72] CHUA, XUE YING, CA

[71] 9493662 CANADA INC., CA

[85] 2022-09-26

[86] 2021-09-03 (PCT/CA2021/051226)

[87] (WO2022/047592)

[30] US (63/074,628) 2020-09-04

[30] US (63/209,561) 2021-06-11

[21] **3,173,456**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**

[25] EN

[54] **PREDICTING WELLNESS OF A USER WITH MONITORING FROM PORTABLE MONITORING DEVICES**

[54] **PREDICTION DU BIEN-ETRE D'UN UTILISATEUR A L'AIDE D'UNE SURVEILLANCE A PARTIR DE DISPOSITIFS DE SURVEILLANCE PORTABLES**

[72] REZAI, ALI, US

[72] FINOMORE, VICTOR, US

[72] D'HAESE, PIERRE, US

[72] MARSH, CLAY, US

[71] WEST VIRGINIA UNIVERSITY BOARD OF GOVERNORS ON BEHALF OF WEST VIRGINIA UNIVERSITY, US

[85] 2022-09-26

[86] 2021-03-29 (PCT/US2021/024617)

[87] (WO2021/195616)

[30] US (63/000,607) 2020-03-27

[30] US (63/032,036) 2020-05-29

[21] **3,173,457**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR DELIVERY OF TARGETED ADVERTISEMENTS ONBOARD MOBILE PLATFORMS**

[54] **SYSTEMES ET PROCEDES DE DIFFUSION D'ANNONCES PUBLICITAIRES CIBLEES A BORD DE PLATEFORMES MOBILES**

[72] O'BRIEN, ULTAN, US

[72] O'SULLIVAN, NIALL, US

[72] MURRAY, FERGAL, US

[71] VIASAT INC., US

[85] 2022-09-26

[86] 2020-03-30 (PCT/US2020/025809)

[87] (WO2021/201831)

PCT Applications Entering the National Phase

[21] **3,173,458**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01)**
[25] FR
[54] **NOVEL PHARMACOLOGICAL CHAPERONE COMPOUNDS OF HUMAN ACID ALPHA-GLUCOSIDASE AND THE THERAPEUTIC USE THEREOF**

[54] **NOUVEAUX COMPOSES CHAPERONS PHARMACOLOGIQUES DE L'ALPHA-GLUCOSIDASE ACIDE HUMAINE ET LEUR UTILISATION THERAPEUTIQUE**

[72] PY, SANDRINE, FR
[72] KANAZAWA, ALICE, FR
[72] VIEIRA DA CRUZ, ANAIS, FR
[72] TANGARA, SALIA, FR
[71] UNIVERSITE GRENOBLE ALPES, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[85] 2022-09-26
[86] 2021-04-22 (PCT/EP2021/060572)
[87] (WO2021/214245)
[30] FR (FR2004065) 2020-04-23

[21] **3,173,460**
[13] A1

[51] **Int.Cl. H04N 19/105 (2014.01) H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01)**

[25] EN
[54] **LUMA MAPPING WITH CHROMA SCALING FOR GRADUAL DECODING REFRESH**

[54] **MISE EN CORRESPONDANCE DE LUMINANCE AVEC MISE A L'ECHELLE DE CHROMINANCE POUR UN RAFRAICHISSEMENT DE DECODAGE PROGRESSIF**

[72] WANG, LIMIN, US
[72] HONG, SEUNGWOOK, US
[72] PANUSOPONE, KRIT, US
[72] HANNUKSELA, MISKA MATIAS, FI
[71] NOKIA TECHNOLOGIES OY, FI
[85] 2022-09-26
[86] 2021-03-25 (PCT/EP2021/057748)
[87] (WO2021/204553)
[30] US (63/007,200) 2020-04-08

[21] **3,173,461**
[13] A1

[51] **Int.Cl. H01R 4/20 (2006.01) H01R 4/58 (2006.01) H02G 15/013 (2006.01)**

[25] EN
[54] **ELECTRIC ENERGY TRANSMISSION ALUMINUM PART AND MACHINING PROCESS THEREFOR**

[54] **PIECE EN ALUMINIUM DE TRANSMISSION D'ENERGIE ELECTRIQUE ET SON PROCEDE D'USINAGE**

[72] WANG, CHAO, CN
[71] JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD., CN

[85] 2022-09-26
[86] 2021-04-01 (PCT/CN2021/084919)
[87] (WO2021/197422)
[30] CN (202010250103.9) 2020-04-01

[21] **3,173,462**
[13] A1

[51] **Int.Cl. A01N 43/14 (2006.01) A01N 43/34 (2006.01)**

[25] EN
[54] **AGROCHEMICAL ADJUVANTS**

[54] **ADJUVANTS AGROCHIMIQUES**

[72] LINDNER, GREGORY JAMES, US
[72] HALTLI, BRADLEY ARNOLD, CA
[72] KERR, RUSSELL GREIG, CA
[72] GRUNWALD, ALYSSA LOUISE, CA
[72] CORREA VELANDIA, HEBELIN, CA
[71] CRODA INTERNATIONAL PLC, GB
[71] CRODA, INC., US

[85] 2022-09-26
[86] 2021-04-02 (PCT/US2021/025498)
[87] (WO2021/202951)
[30] US (63/004,875) 2020-04-03

[21] **3,173,463**
[13] A1

[51] **Int.Cl. B65D 71/42 (2006.01)**

[25] EN
[54] **ARTICLE CARRIER AND BLANK THEREFOR**

[54] **SUPPORT D'ARTICLE ET EBAUCHE ASSOCIEE**

[72] MERZEAU, JULIEN D., FR
[72] AVRIL, FABRICE, FR
[72] THEROND, ALEXANDRE, FR
[72] TEILLOL, NICOLAS, FR
[72] DAVAILLON, EMMANUEL, FR
[71] WESTROCK PACKAGING SYSTEMS, LLC, US

[85] 2022-09-26
[86] 2021-03-26 (PCT/US2021/024277)
[87] (WO2021/195454)
[30] US (63/000,158) 2020-03-26
[30] US (63/062,989) 2020-08-07

[21] **3,173,464**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G10L 25/66 (2013.01) A61B 5/08 (2006.01) A61B 5/11 (2006.01) A61B 7/00 (2006.01)**

[25] EN
[54] **SPEECH-CONTROLLED HEALTH MONITORING SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE SANTE A COMMANDE VOCALE**

[72] SAYADI, OMID, US
[72] YOUNG, STEVEN JAY, US
[72] HEWITT, CARL, US
[72] LUCKOW, ALAN, US
[71] UDP LABS, INC., US

[85] 2022-09-26
[86] 2020-12-04 (PCT/US2020/063338)
[87] (WO2021/201925)
[30] US (63/003,551) 2020-04-01

Demandes PCT entrant en phase nationale

[21] **3,173,465**
[13] A1

[51] **Int.Cl. G01C 21/00 (2006.01) G01C 21/20 (2006.01) G01C 21/34 (2006.01) G01C 21/36 (2006.01) G05D 1/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR INTERSECTION MANAGEMENT BY AN AUTONOMOUS VEHICLE**

[54] **SYSTEME ET PROCEDE DE GESTION D'INTERSECTION PAR UN VEHICULE AUTONOME**

[72] MALLELA, PRANEETA, US

[72] RAVINDRAN, AADITYA, US

[72] HERSH, BENJAMIN V., US

[72] BIDAULT, BORIS, US

[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US

[85] 2022-09-26

[86] 2021-03-26 (PCT/US2021/024445)

[87] (WO2021/202298)

[30] US (63/001,329) 2020-03-28

[21] **3,173,466**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **WHOLE-CELL CONSTITUENT TRANSPORT SYSTEM AND APPLICATION THEREOF**

[54] **SYSTEME DE TRANSPORT DE CONSTITUANTS DE CELLULE ENTIERE ET SON APPLICATION**

[72] LIU, MI, CN

[71] SUZHOU ERSHENG BIOPHARMACEUTICAL CO., LTD, CN

[85] 2022-09-26

[86] 2020-06-16 (PCT/CN2020/096302)

[87] (WO2021/189678)

[30] CN (202010223563.2) 2020-03-26

[21] **3,173,467**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0205 (2006.01) A61B 5/024 (2006.01) A61B 5/0245 (2006.01) A61B 5/08 (2006.01) A62B 7/00 (2006.01) A62B 7/14 (2006.01) B64D 13/00 (2006.01)**

[25] EN

[54] **MONITORING SYSTEM**

[54] **SYSTEME DE SURVEILLANCE**

[72] GERDER, HENNING, DE

[72] OSTERLOH, CHRISTOPH, DE

[71] DRAGER SAFETY AG & CO. KGAA, DE

[85] 2022-09-26

[86] 2021-06-10 (PCT/EP2021/065585)

[87] (WO2022/002555)

[30] DE (10 2020 117 040.8) 2020-06-29

[30] DE (10 2021 111 431.4) 2021-05-04

[21] **3,173,468**
[13] A1

[51] **Int.Cl. A23L 5/00 (2016.01) A23P 30/00 (2016.01)**

[25] EN

[54] **CROSS-MAILLARDIZED PLANT SUBSTRATES**

[54] **SUBSTRATS VEGETAUX SOUMIS A LA REACTION DE MAILLARD CROISEE**

[72] STOPFORTH, JARRET, US

[72] SHAW, CHARLES M., US

[71] ATOMO COFFEE, INC., US

[85] 2022-09-26

[86] 2021-04-02 (PCT/US2021/025565)

[87] (WO2021/202989)

[30] US (63/005,158) 2020-04-03

[21] **3,173,469**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 50/70 (2018.01) A61B 5/0205 (2006.01) A61B 5/024 (2006.01) A61B 5/08 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR REMOTE PATIENT SCREENING AND TRIAGE**

[54] **SYSTEMES ET PROCEDES DE DEPISTAGE ET DE TRI DE PATIENT A DISTANCE**

[72] SAYADI, OMID, US

[72] YOUNG, STEVEN JAY, US

[72] HEWITT, CARL, US

[71] UDP LABS, INC., US

[85] 2022-09-26

[86] 2020-12-04 (PCT/US2020/063329)

[87] (WO2021/201924)

[30] US (63/003,551) 2020-04-01

[21] **3,173,470**
[13] A1

[51] **Int.Cl. H01R 4/62 (2006.01)**

[25] EN

[54] **COPPER-ALUMINUM COMPOSITE ELECTRIC ENERGY TRANSMISSION SYSTEM AND PROCESSING METHOD THEREFOR**

[54] **SYSTEME DE TRANSMISSION D'ENERGIE ELECTRIQUE PAR COMPOSITE DE CUIVRE-ALUMINIUM ET PROCEDE ASSOCIE DE TRAITEMENT**

[72] WANG, CHAO, CN

[71] JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD., CN

[85] 2022-09-26

[86] 2021-04-01 (PCT/CN2021/084920)

[87] (WO2021/197423)

[30] CN (202010250067.6) 2020-04-01

[21] **3,173,471**
[13] A1

[51] **Int.Cl. G01D 11/24 (2006.01) G06N 20/00 (2019.01) G01D 11/30 (2006.01) G01D 18/00 (2006.01) G01D 21/02 (2006.01)**

[25] EN

[54] **MULTI-SENSOR SYNERGY**

[54] **SYNERGIE MULTI-CAPTEURS**

[72] DAYAL, ADITYA, US

[72] TRIKHA, NITESH, US

[71] VIEW, INC., US

[85] 2022-09-26

[86] 2022-01-27 (PCT/US2022/014135)

[87] (WO2022/165062)

[30] US (PCT/US2021/015378) 2021-01-28

[30] US (63/263,806) 2021-11-09

PCT Applications Entering the National Phase

[21] **3,173,472**
[13] A1

[51] **Int.Cl. A61K 47/10 (2017.01) A61B 18/02 (2006.01)**

[25] EN

[54] **METHODS OF ALLEVIATING SYMPTOMS OF OCULAR SURFACE DISCOMFORT USING MEDICAL ICE SLURRY**

[54] **PROCEDES D'ATTENUATION DES SYMPTOMES DE L'INCONFORT DE LA SURFACE OCULAIRE A L'AIDE D'UNE SUSPENSION DE GLACE MEDICALE**

[72] STEFATER, JAMES ANTHONY, III, US

[72] STRYJEWSKI, TOMASZ PAWEL, US

[72] SABIR, SAMEER, US

[71] EYECOOL THERAPEUTICS, INC., US

[85] 2022-09-26

[86] 2021-03-26 (PCT/US2021/024514)

[87] (WO2021/195582)

[30] US (63/000,922) 2020-03-27

[21] **3,173,473**
[13] A1

[51] **Int.Cl. G01M 3/16 (2006.01) F16T 1/48 (2006.01) G01M 3/28 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND MEDIA FOR GENERATING ALERTS OF WATER HAMMER EVENTS IN STEAM PIPES**

[54] **SYSTEMES, PROCEDES ET SUPPORTS DE GENERATION D'ALERTE D'EVENEMENTS DE COUPS DE BELIER DANS DES TUYAUX DE VAPEUR**

[72] OWENS, PETER, US

[72] MICALLEF, DAVID, MT

[71] MPSQUARED, LLC, US

[85] 2022-09-26

[86] 2021-03-29 (PCT/US2021/024588)

[87] (WO2021/195611)

[30] US (63/000,675) 2020-03-27

[21] **3,173,474**
[13] A1

[51] **Int.Cl. A01D 34/82 (2006.01) A01D 34/64 (2006.01)**

[25] EN

[54] **LAWN MOWER**

[54] **TONDEUSE A GAZON**

[72] LAM, KWOK FAN, CN

[72] WONG, KAR TAT, CN

[72] CHEN, PING SHAN, CN

[71] TECHTRONIC CORDLESS GP, US

[85] 2022-09-26

[86] 2020-11-11 (PCT/CN2020/128128)

[87] (WO2021/203697)

[30] HK (22020005367.0) 2020-04-06

[30] CN (PCT/CN2020/114671) 2020-09-11

[30] CN (PCT/CN2020/119865) 2020-10-08

[21] **3,173,475**
[13] A1

[51] **Int.Cl. H01M 10/0525 (2010.01)**

[25] EN

[54] **SHUTDOWN SEPARATOR**

[54] **SEPARATEUR D'ARRET**

[72] GAO, PENG, CN

[72] MALOTKY, DAVID L., US

[72] GUO, YUNLONG, CN

[72] DERMODY, DANIEL L., US

[72] YU, HAIYANG, CN

[72] MA, WANFU, CN

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2022-09-26

[86] 2020-04-29 (PCT/CN2020/087777)

[87] (WO2021/217496)

[21] **3,173,476**
[13] A1

[51] **Int.Cl. B65D 5/00 (2006.01)**

[25] EN

[54] **CONTAINER BLANK**

[54] **DECOUPE DE CONTENANT**

[72] PORTER, ERIK W., US

[72] HOLSCHUH, RICHARD STEPHEN, US

[71] KIMBERLY-CLARK WORLDWIDE, INC., US

[85] 2022-09-26

[86] 2020-04-02 (PCT/US2020/026303)

[87] (WO2021/201867)

[21] **3,173,477**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24D 1/20 (2020.01) A24B 15/14 (2006.01) A24B 15/30 (2006.01)**

[25] EN

[54] **AEROSOL GENERATION**

[54] **GENERATION D'AEROSOL**

[72] ABI AOUN, WALID, GB

[72] SOFFE, JOANNA, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-08-13 (PCT/EP2021/072597)

[87] (WO2022/034213)

[30] GB (2012747.8) 2020-08-14

[21] **3,173,478**
[13] A1

[51] **Int.Cl. B65H 35/07 (2006.01)**

[25] EN

[54] **TAPE DISPENSER HAVING TWO SIDED CUTTER BLADE AND METHOD OF MANUFACTURE**

[54] **DISTRIBUTEUR DE RUBAN AYANT UNE LAME DE COUPE A DEUX COTES ET PROCEDE DE FABRICATION**

[72] CHANDARIA, SHERNEE, CA

[71] KITARU INNOVATIONS INC., BB

[71] CHANDARIA, SHERNEE, CA

[85] 2022-09-26

[86] 2021-03-26 (PCT/CA2021/050397)

[87] (WO2021/189149)

[30] US (16/832,159) 2020-03-27

[21] **3,173,479**
[13] A1

[51] **Int.Cl. A24D 3/17 (2020.01) A24F 40/485 (2020.01) A24F 13/00 (2006.01)**

[25] EN

[54] **NON-COMBUSTIBLE AEROSOL DELIVERY SYSTEM**

[54] **SYSTEME DE DISTRIBUTION D'AEROSOL NON COMBUSTIBLE**

[72] GASPARYAN, HRIPSIME, GB

[72] COPLEY, SIMON JAMES, GB

[72] AHEARN, DANIEL THOMAS, GB

[72] HOMBURG, MATTHEW MAURICE, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-06-16 (PCT/GB2021/051525)

[87] (WO2021/255448)

[30] GB (2009250.8) 2020-06-17

Demandes PCT entrant en phase nationale

[21] **3,173,480**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C07K 16/28 (2006.01) C12N 15/85 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **MODIFIED B CELLS AND METHODS OF USE THEREOF**

[54] **LYMPHOCYTES B MODIFIES ET METHODES POUR LES UTILISER**

[72] BOYLE, KATHLEEN, US

[72] PARK, HANGIL, US

[72] KOTHAKOTA, SRINIVAS, US

[72] SELBY, MARK, US

[72] BRENNAN, THOMAS, US

[72] WILLIAMS, LEWIS T., US

[71] WALKING FISH THERAPEUTICS, US

[85] 2022-09-26

[86] 2021-03-31 (PCT/US2021/025273)

[87] (WO2021/202810)

[30] US (63/003,120) 2020-03-31

[21] **3,173,481**
[13] A1

[51] **Int.Cl. G06K 15/00 (2006.01) G06T 7/00 (2017.01) H04N 7/18 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETECTING A MIS-SCAN OF AN ITEM FOR PURCHASE**

[54] **SYSTEMES ET PROCEDES DE DETECTION D'UN MAUVAIS BALAYAGE D'UN ARTICLE A ACHETER**

[72] PALANDE, DHANASHREE, US

[72] ARNOLD, MIRKO A., IE

[72] NICHOLS, JASON, US

[72] SHAH, NIYATI LALIT, US

[72] SIROTKOVIC, JADRAN, IE

[72] TERLECKY, PETER M., US

[71] WALMART APOLLO, LLC, US

[85] 2022-09-26

[86] 2021-03-26 (PCT/US2021/024403)

[87] (WO2021/195523)

[30] US (63/000,290) 2020-03-26

[21] **3,173,482**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01) A62B 18/02 (2006.01) A62B 23/02 (2006.01) B01D 39/16 (2006.01) B01D 69/12 (2006.01) B01D 71/06 (2006.01)**

[25] EN

[54] **RESPIRATOR FACE MASKS FOR PROTECTION FROM AIRBORNE PARTICLES**

[54] **MASQUES FACIAUX RESPIRATEURS POUR LA PROTECTION DE PARTICULES EN SUSPENSION DANS L'AIR**

[72] NYITRAY, CRYSTAL, US

[72] WEI, GRACE, US

[71] ENCELLIN, INC., US

[85] 2022-09-26

[86] 2021-03-25 (PCT/US2021/024131)

[87] (WO2021/195365)

[30] US (63/000,081) 2020-03-26

[21] **3,173,483**
[13] A1

[51] **Int.Cl. A24D 3/17 (2020.01) A24F 40/485 (2020.01) A24F 13/00 (2006.01)**

[25] EN

[54] **NON-COMBUSTIBLE AEROSOL DELIVERY SYSTEM**

[54] **SYSTEME DE DISTRIBUTION D'AEROSOL NON COMBUSTIBLE**

[72] GASPARYAN, HRIPSIME, GB

[72] COPLEY, SIMON JAMES, GB

[72] PRICE, MATHEW JOHN, GB

[72] HOMBURG, MATTHEW MAURICE, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-06-16 (PCT/GB2021/051531)

[87] (WO2021/255454)

[30] GB (2009251.6) 2020-06-17

[21] **3,173,484**
[13] A1

[51] **Int.Cl. C08F 4/646 (2006.01) C08F 4/651 (2006.01) C08F 10/02 (2006.01) C08F 4/654 (2006.01) C08F 210/14 (2006.01)**

[25] EN

[54] **ZIEGLER-NATTA (PRO)CATALYST SYSTEMS MADE WITH (MULTI-ALKOXY)SILANE COMPOUND**

[54] **SYSTEMES DE (PRO)CATALYSEUR ZIEGLER-NATTA FABRIQUES AVEC UN COMPOSE (MULTI-ALKOXY) SILANE**

[72] CHEN, LINFENG, US

[72] BEILHART, JESSE C., US

[72] GILLESPIE, DAVID T., US

[72] KAPUR, MRIDULA, US

[72] MUNRO, IAN M., US

[72] GARCIA, EDUARDO, US

[72] WILLIAMS, NORI, US

[72] AUYEUNG, EVELYN, US

[72] HIRSEKORN, KURT F., US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2022-09-26

[86] 2021-04-22 (PCT/US2021/028595)

[87] (WO2021/221988)

[30] US (63/017,857) 2020-04-30

[21] **3,173,485**
[13] A1

[51] **Int.Cl. A24D 3/17 (2020.01) A24F 40/40 (2020.01) A24F 40/485 (2020.01) A24F 13/00 (2006.01) A24F 40/10 (2020.01) A24F 40/20 (2020.01)**

[25] EN

[54] **NON-COMBUSTIBLE AEROSOL DELIVERY SYSTEM, FILTER UNIT AND ASSEMBLY**

[54] **SYSTEME DE DISTRIBUTION D'AEROSOL NON COMBUSTIBLE, UNITE DE FILTRE ET ENSEMBLE**

[72] GASPARYAN, HRIPSIME, GB

[72] COPLEY, SIMON JAMES, GB

[72] AHEARN, DANIEL THOMAS, GB

[72] STEPHENS, FRANCESCA ALYS, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-06-16 (PCT/GB2021/051532)

[87] (WO2021/255455)

[30] GB (2009252.4) 2020-06-17

PCT Applications Entering the National Phase

[21] **3,173,486**
[13] A1

[51] **Int.Cl. F17C 5/06 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR FILLING PRESSURISED GAS TANKS**
[54] **DISPOSITIF ET PROCEDE DE REMPLISSAGE DE RESERVOIRS DE GAZ SOUS PRESSION**
[72] FISCHER, BENJAMIN, FR
[72] PAOLI, HERVE, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROC..., FR
[85] 2022-09-26
[86] 2021-03-23 (PCT/EP2021/057390)
[87] (WO2021/204527)
[30] FR (FR2003617) 2020-04-10

[21] **3,173,487**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/53 (2020.01)**
[25] EN
[54] **NON-COMBUSTIBLE AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL NON COMBUSTIBLE**
[72] YILMAZ, UGURHAN, GB
[72] CHEN, SHIXIANG, GB
[72] POYNTON, SIMON, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-05-06 (PCT/GB2021/051096)
[87] (WO2021/224626)
[30] GB (2006778.1) 2020-05-07

[21] **3,173,488**
[13] A1

[51] **Int.Cl. A24F 40/57 (2020.01) A24F 47/00 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] POYNTON, SIMON, GB
[72] TESFATSION, BINIAM FESSEHAYE, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-09-15 (PCT/GB2021/052389)
[87] (WO2022/064176)
[30] GB (2014919.1) 2020-09-22

[21] **3,173,489**
[13] A1

[51] **Int.Cl. A24F 40/51 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEMS**
[54] **SYSTEMES DE FOURNITURE D'AEROSOL**
[72] LAI, SAM, GB
[72] CHEN, PING CHOU, GB
[72] WOODMAN, TOM, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-26
[86] 2021-05-21 (PCT/GB2021/051238)
[87] (WO2021/240136)
[30] GB (2008107.1) 2020-05-29

[21] **3,173,490**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01)**
[25] EN
[54] **GENETICALLY MODIFIED IMMUNE CELLS EXPRESSING A CHIMERIC ANTIGEN RECEPTOR AND HAVING REDUCED PROINFLAMMATORY CYTOKINE SIGNALING**
[54] **CELLULES IMMUNITAIRES GENETIQUEMENT MODIFIEES EXPRIMANT UN RECEPTEUR ANTIGENIQUE CHIMERIQUE ET AYANT UNE SIGNALISATION DE CYTOKINE PRO-INFLAMMATOIRE REDUITE**
[72] HU, BILIANG, US
[71] CELLEDIT LLC, US
[85] 2022-09-26
[86] 2021-04-06 (PCT/US2021/025906)
[87] (WO2021/207150)
[30] US (63/005,684) 2020-04-06

[21] **3,173,491**
[13] A1

[51] **Int.Cl. E02F 9/26 (2006.01) H04W 4/38 (2018.01) E02F 9/28 (2006.01) G01R 33/02 (2006.01) G07C 5/08 (2006.01) G08B 21/18 (2006.01)**
[25] EN
[54] **BUCKET TOOTH MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE DENT DE GODET**
[72] HALL, JAMES C., US
[71] CATERPILLAR INC., US
[85] 2022-09-26
[86] 2021-03-11 (PCT/US2021/021853)
[87] (WO2021/211234)
[30] US (16/849,706) 2020-04-15

[21] **3,173,492**
[13] A1

[51] **Int.Cl. C11B 5/00 (2006.01)**
[25] EN
[54] **SOLVENT COMPOSITIONS WITH ANTIOXIDANTS**
[54] **COMPOSITIONS DE SOLVANT AVEC ANTIOXYDANTS**
[72] DONATE, FELIPE A., US
[72] WACHOWICZ, REBECCA J., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2022-09-26
[86] 2021-03-01 (PCT/US2021/020226)
[87] (WO2021/216199)
[30] US (63/014,773) 2020-04-24

[21] **3,173,493**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24B 15/167 (2020.01) A24F 40/42 (2020.01) A24B 15/30 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01)**
[25] EN
[54] **PACKAGED FORMULATION**
[54] **FORMULATION CONDITIONNEE**
[72] DAVIS, MICHAEL FOSTER, US
[72] HUGHES, ALICE, GB
[72] KAWAMURA, REI, US
[72] JOHNSON, SAVANNAH, US
[72] MCQUILLAN, KARINA, GB
[72] SOLECHNIK, NICKOLAI, GB
[71] NICOVENTURES TRADING LIMITED, GB
[71] RAI STRATEGIC HOLDINGS INC, US
[85] 2022-09-26
[86] 2021-09-24 (PCT/GB2021/052480)
[87] (WO2022/064203)
[30] US (63/198,026) 2020-09-24
[30] US (63/201,139) 2021-04-14

Demandes PCT entrant en phase nationale

[21] **3,173,494**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24B 15/167 (2020.01) A24F 40/42 (2020.01) A24B 15/30 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01)**

[25] EN

[54] **FORMULATION**

[54] **FORMULATION**

[72] DAVIS, MICHAEL FOSTER, US

[72] JOHNSON, SAVANNAH, US

[72] KAWAMURA, REI, US

[72] HUGHES, ALICE, GB

[72] MCQUILLAN, KARINA, GB

[72] SOLECHNIK, NICKOLAI, GB

[71] NICOVENTURES TRADING LIMITED, GB

[71] RAI STRATEGIC HOLDINGS, INC., US

[85] 2022-09-26

[86] 2021-09-24 (PCT/GB2021/052481)

[87] (WO2022/064204)

[30] US (63/198,025) 2020-09-24

[30] US (63/201,138) 2021-04-14

[21] **3,173,495**
[13] A1

[51] **Int.Cl. G06T 5/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR REMOVING HAZINESS IN DIGITAL IMAGES**

[54] **SYSTEME ET PROCEDE POUR ELIMINER L'ASPECT FLOU DANS DES IMAGES NUMERIQUES**

[72] ANGAMUTHU GANESAN, MAHENDRA KUMAR, IN

[72] PALANIAPPAN, PRABU, IN

[72] ANANDAN, ARUN, IN

[72] THEKKEVAVANOOR, SWARAN, IN

[72] MAHABOOB BASHA, ABDUL A., IN

[71] CATERPILLAR INC., US

[85] 2022-09-26

[86] 2021-03-31 (PCT/US2021/025091)

[87] (WO2021/211297)

[30] IN (202011016605) 2020-04-17

[21] **3,173,496**
[13] A1

[51] **Int.Cl. A24B 15/12 (2006.01) A24D 3/17 (2020.01) A24B 15/16 (2020.01) A24B 15/28 (2006.01) A24D 3/02 (2006.01) A24D 3/06 (2006.01) A24D 3/10 (2006.01) A24D 3/16 (2006.01)**

[25] EN

[54] **CONSUMABLE FOR AN AEROSOL PROVISION SYSTEM**

[54] **CONSOMMABLE POUR UN SYSTEME DE FOURNITURE D'AEROSOL**

[72] HOLFORD, STEVEN, GB

[72] LEAH, THOMAS, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-07-30 (PCT/GB2021/051973)

[87] (WO2022/023763)

[30] GB (2011953.3) 2020-07-31

[21] **3,173,497**
[13] A1

[51] **Int.Cl. B23K 31/02 (2006.01)**

[25] EN

[54] **IN-SITU INSPECTION METHOD BASED ON DIGITAL DATA MODEL OF WELD**

[54] **PROCEDE D'INSPECTION IN SITU FONDE SUR UN MODELE DE DONNEES NUMERIQUES DE SOUDURE**

[72] KITCHEN, RYAN SCOTT, US

[72] LEVASSEUR, MATTHEW PAUL, US

[72] WACKERLY, RYAN STEVEN, US

[72] PIVOVAR, ROSS, US

[71] BWXT ADVANCED TECHNOLOGIES LLC, US

[85] 2022-09-26

[86] 2021-04-07 (PCT/US2021/026120)

[87] (WO2021/207318)

[30] US (63/007,320) 2020-04-08

[30] US (63/052,182) 2020-07-15

[30] US (17/221,885) 2021-04-05

[21] **3,173,498**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24B 15/167 (2020.01) A24F 40/30 (2020.01) A24B 15/24 (2006.01)**

[25] EN

[54] **DELIVERY SYSTEMS AND COMPOSITIONS FOR INCLUSION THEREIN**

[54] **SYSTEMES DE DISTRIBUTION ET COMPOSITIONS A Y INCLURE**

[72] DAVIES, ASHLEY, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-06-22 (PCT/GB2021/051574)

[87] (WO2021/260359)

[30] GB (2009493.4) 2020-06-22

[21] **3,173,499**
[13] A1

[51] **Int.Cl. A24B 15/12 (2006.01) A24D 3/17 (2020.01) A24B 15/16 (2020.01) A24B 15/28 (2006.01) A24D 3/02 (2006.01) A24D 3/06 (2006.01) A24D 3/10 (2006.01) A24D 3/16 (2006.01)**

[25] EN

[54] **CONSUMABLE FOR AN AEROSOL PROVISION SYSTEM**

[54] **CONSOMMABLE POUR UN SYSTEME DE FOURNITURE D'AEROSOL**

[72] POYNTON, SIMON, GB

[72] ABI AOUN, WALID, GB

[72] DIMMICK, BARRY, GB

[72] YILMAZ, UGURHAN, GB

[72] TEFATSION, BINIAM, GB

[72] BETSON, TATIANA, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-07-30 (PCT/GB2021/051976)

[87] (WO2022/023766)

[30] GB (2011952.5) 2020-07-31

PCT Applications Entering the National Phase

[21] **3,173,500**
[13] A1

[51] **Int.Cl. A24B 15/14 (2006.01) A24F 40/00 (2020.01) A24B 15/18 (2006.01) A24B 15/28 (2006.01)**

[25] EN

[54] **AEROSOL GENERATING MATERIAL**

[54] **MATERIAU DE GENERATION D'AEROSOL**

[72] TESFATSION, BINIAM, GB

[72] BISHOP, DAVID, GB

[72] POYNTON, SIMON, GB

[72] BETSON, TATIANA, GB

[72] YILMAZ, UGURHAN, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-05-04 (PCT/GB2021/051065)

[87] (WO2021/224603)

[30] GB (2006645.2) 2020-05-05

[21] **3,173,501**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24D 1/20 (2020.01) A24F 40/20 (2020.01) A24F 40/30 (2020.01) A24B 15/30 (2006.01) A24B 15/38 (2006.01)**

[25] EN

[54] **AEROSOL GENERATING MATERIAL**

[54] **MATIERE GENERATRICE D'AEROSOL**

[72] TESFATSION, BINIAM, GB

[72] BISHOP, DAVID, GB

[72] POYNTON, SIMON, GB

[72] BETSON, TATIANA, GB

[72] YILMAZ, UGURHAN, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-05-04 (PCT/GB2021/051066)

[87] (WO2021/224604)

[30] GB (2006642.9) 2020-05-05

[21] **3,173,502**
[13] A1

[51] **Int.Cl. E21B 33/035 (2006.01) E21B 43/013 (2006.01) E21B 43/017 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEMS AND METHODS FOR OIL AND GAS OPERATIONS**

[54] **APPAREILS, SYSTEMES ET PROCEDES D'OPERATIONS PETROLIERES ET GAZIERES**

[72] DONALD, IAN, GB

[72] REID, JOHN, GB

[72] MCDONALD, CRAIG, GB

[72] MCGHIE, MICHAEL, GB

[71] ENPRO SUBSEA LIMITED, GB

[85] 2022-09-26

[86] 2021-04-14 (PCT/GB2021/050902)

[87] (WO2021/209754)

[30] GB (2005412.8) 2020-04-14

[30] GB (2018308.3) 2020-11-20

[21] **3,173,503**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24D 1/20 (2020.01) A24F 40/10 (2020.01) A24F 40/30 (2020.01) A24B 15/30 (2006.01) A24B 15/38 (2006.01)**

[25] EN

[54] **AEROSOL GENERATING MATERIAL**

[54] **SUBSTANCE DE GENERATION D'AEROSOL**

[72] TESFATSION, BINIAM, GB

[72] BISHOP, DAVID, GB

[72] POYNTON, SIMON, GB

[72] BETSON, TATIANA, GB

[72] YILMAZ, UGURHAN, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-09-26

[86] 2021-05-04 (PCT/GB2021/051062)

[87] (WO2021/224600)

[30] GB (2006633.8) 2020-05-05

[21] **3,173,504**
[13] A1

[51] **Int.Cl. C07C 229/08 (2006.01) C07C 225/06 (2006.01) C07C 227/14 (2006.01) C07C 229/12 (2006.01) C07C 229/26 (2006.01)**

[25] EN

[54] **OLIGONUCLEOTIDE ANALOGUE THERAPEUTICS FOR TREATMENT OF NEUROMUSCULAR DISEASE**

[54] **AGENTS THERAPEUTIQUES ANALOGUES OLIGONUCLEOTIDIQUES POUR LE TRAITEMENT D'UNE MALADIE NEUROMUSCULAIRE**

[72] STEPHAN, DIETRICH A., US

[72] BATWAL, RAMESH, US

[72] BADEAU, BARRY, US

[72] KILGORE, AUSTIN, US

[72] STOLTZFUS, DANI, US

[71] NEUBASE THERAPEUTICS, INC., US

[85] 2022-09-26

[86] 2021-12-15 (PCT/US2021/010058)

[87] (WO2022/132194)

[30] US (63/125,513) 2020-12-15

[30] US (63/250,117) 2021-09-29

[30] US (63/197,816) 2021-06-07

[30] US (63/158,176) 2021-03-08

[21] **3,173,505**
[13] A1

[51] **Int.Cl. C23C 22/53 (2006.01) C23C 28/00 (2006.01)**

[25] EN

[54] **METHOD FOR FORMING A BLACK-PASSIVATION LAYER ON A ZINC-IRON ALLOY AND BLACK-PASSIVATION COMPOSITION**

[54] **PROCEDE DE FORMATION D'UNE COUCHE DE PASSIVATION NOIRE SUR UN ALLIAGE ZINC-FER ET COMPOSITION DE PASSIVATION NOIRE**

[72] STARKBAUM, ZDENEK, DE

[72] KRUGER, MIKE, DE

[71] ATOTECH DEUTSCHLAND GMBH & CO. KG, DE

[85] 2022-09-26

[86] 2021-04-01 (PCT/EP2021/058640)

[87] (WO2021/198429)

[30] EP (20167940.4) 2020-04-03

Demandes PCT entrant en phase nationale

[21] **3,173,506**
[13] A1

[51] **Int.Cl. A23L 33/21 (2016.01)**
[25] EN
[54] **IMMUNOMODULATORY OLIGOSACCHARIDES FOR THE ENHANCEMENT OF ANTI-TUMOR EFFICACY OF IMMUNO-ONCOLOGY AGENTS**

[54] **OLIGOSACCHARIDES IMMUNOMODULATEURS POUR L'AMELIORATION DE L'EFFICACITE ANTITUMORALE D'AGENTS IMMUNO-ONCOLOGIQUES**

[72] MARTINEZ, ALEXANDER, US
[72] FERRONE, JASON, US
[72] CHUANG, EMIL, US
[71] INTRINSIC MEDICINE, INC., US
[85] 2022-09-26
[86] 2021-12-21 (PCT/US2021/064514)
[87] (WO2022/140324)
[30] US (63/129,064) 2020-12-22

[21] **3,173,507**
[13] A1

[51] **Int.Cl. A61K 35/747 (2015.01) A61K 31/606 (2006.01) A61K 38/13 (2006.01) A61P 37/02 (2006.01)**

[25] EN
[54] **COMBINATION THERAPY FOR INFLAMMATORY BOWEL DISEASE**

[54] **POLYTHERAPIE POUR MALADIE INFLAMMATOIRE DE L'INTESTIN**

[72] FINLAYSON, WAYNE, AU
[71] SERVATUS LTD, AU
[85] 2022-09-26
[86] 2021-03-31 (PCT/AU2021/050288)
[87] (WO2021/195703)
[30] AU (2020900988) 2020-03-31
[30] AU (2020902276) 2020-07-03
[30] AU (2020904572) 2020-12-09

[21] **3,173,508**
[13] A1

[51] **Int.Cl. A24B 15/167 (2020.01) A24F 40/05 (2020.01) A24F 40/10 (2020.01) B05B 17/06 (2006.01)**

[25] EN
[54] **COMPOSITIONS COMPRISING NICOTINE AND/OR NICOTINE SALTS AND ULTRASONIC AEROSOLISATION OF COMPOSITIONS COMPRISING NICOTINE AND/OR NICOTINE SALTS**

[54] **COMPOSITIONS COMPRENANT DE LA NICOTINE ET/OU DES SELS DE NICOTINE ET AEROSOLISATION A ULTRASONS DE COMPOSITIONS COMPRENANT DE LA NICOTINE ET/OU DES SELS DE NICOTINE**

[72] LAHOUD, IMAD, AE
[72] ALSHAIBA SALEH GHANNAM ALMAZROUEI, MOHAMMED, AE
[72] MACHOVEC, JEFFREY, AE
[71] SHAHEEN INNOVATIONS HOLDING LIMITED, AE
[85] 2022-09-26
[86] 2021-04-01 (PCT/GB2021/050817)
[87] (WO2021/205149)
[30] EP (20168231.7) 2020-04-06

[21] **3,173,509**
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/22 (2006.01) C12P 7/22 (2006.01)**

[25] EN
[54] **CANNABINOID SYNTHASE VARIANTS AND METHODS FOR THEIR USE**

[54] **VARIANTS DE CANNABINOIDE SYNTHASE ET LEURS PROCEDES D'UTILISATION**

[72] ZHANG, DEQIANG, US
[72] HUDDLESTON, JAMISON PARKER, US
[72] WARNER, JOSEPH ROY, US
[72] GRIFFIN, BENJAMIN MATTHEW, US
[71] GENOMATICA, INC., US
[85] 2022-09-26
[86] 2021-04-13 (PCT/US2021/027125)
[87] (WO2021/211611)
[30] US (63/009,573) 2020-04-14
[30] US (63/139,171) 2021-01-19

[21] **3,173,510**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4184 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/5377 (2006.01) A61P 37/02 (2006.01) A61P 37/06 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07F 7/10 (2006.01)**

[25] EN
[54] **NOVEL BENZIMIDAZOLE DERIVATIVE**

[54] **DERIVE INEDIT DE BENZIMIDAZOLE**

[72] KIYOI, TAKAO, JP
[72] MATSUMOTO, HIROKAZU, JP
[72] TAKAMATSU, SHIORI, JP
[72] SAWA, MASAOKI, JP
[71] CARNA BIOSCIENCES INC., JP
[85] 2022-09-26
[86] 2021-03-24 (PCT/JP2021/012359)
[87] (WO2021/193756)
[30] JP (2020-054552) 2020-03-25
[30] JP (2020-217098) 2020-12-25

[21] **3,173,513**
[13] A1

[51] **Int.Cl. A61K 35/19 (2015.01) A61K 35/28 (2015.01)**

[25] EN
[54] **NOVEL ANUCLEATED CELLS AND USES THEREOF**

[54] **NOUVELLES CELLULES ANUCLEEEES ET LEURS UTILISATIONS**

[72] HETT, SUNITA R., US
[72] WEISINGER, KAREN, US
[72] PENG, YANG, US
[72] MCLAUGHLIN, KYLE P., US
[72] PETERS, CHRISTIAN G., US
[72] ZUKAUSKAS, ANDREW R., US
[72] SMITH, BRENDEN W., US
[72] GIANNINI, SILVIA, US
[72] LEHMANN, MARCUS, US
[71] PLATELET BIOGENESIS, INC., US
[85] 2022-09-26
[86] 2021-03-26 (PCT/US2021/024359)
[87] (WO2021/195496)
[30] US (63/000,848) 2020-03-27
[30] US (63/105,693) 2020-10-26
[30] US (17/213,552) 2021-03-26

PCT Applications Entering the National Phase

[21] **3,173,514**
[13] A1

[51] **Int.Cl. H01M 10/44 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **ELECTRIC VEHICLE AND BATTERY SYSTEM**
[54] **VEHICULE ELECTRIQUE ET SYSTEME DE BATTERIE**
[72] WANG, WENWEI, CN
[72] WEI, QUNLI, CN
[72] XUE, JIAFU, CN
[72] SHI, DONGDONG, CN
[72] CHEN, HUI, CN
[72] ZHAO, PENG, CN
[72] SHI, QINGHUA, CN
[71] CHANGZHOU GLOBE CO., LTD., CN
[85] 2022-09-26
[86] 2021-03-25 (PCT/CN2021/083071)
[87] (WO2021/190612)
[30] CN (202010222359.9) 2020-03-26
[30] CN (202010222174.8) 2020-03-26
[30] CN (202010227225.6) 2020-03-27
[30] CN (202010341659.9) 2020-04-27
[30] CN (202010489646.6) 2020-06-02
[30] CN (202011107782.0) 2020-10-16
[30] CN (202020399165.1) 2020-03-26
[30] CN (202110048184.9) 2021-01-14

[21] **3,173,515**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/198 (2006.01) A61K 31/231 (2006.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS TO REDUCE THE INFECTIVITY OF A VIRUS**
[54] **COMPOSITIONS ET METHODES POUR REDUIRE L'INFECTIVITE D'UN VIRUS**
[72] QUAY, STEVEN C., US
[71] ATOSSA THERAPEUTICS, INC., US
[85] 2022-09-26
[86] 2021-04-15 (PCT/US2021/027438)
[87] (WO2021/211808)
[30] US (63/011,291) 2020-04-16
[30] US (63/012,818) 2020-04-20
[30] US (63/015,370) 2020-04-24
[30] US (63/032,435) 2020-05-29
[30] US (63/051,800) 2020-07-14
[30] US (63/112,112) 2020-11-10

[21] **3,173,516**
[13] A1

[51] **Int.Cl. A23K 50/40 (2016.01) G06Q 50/10 (2012.01) G16H 20/60 (2018.01)**
[25] EN
[54] **METHODS FOR CHARACTERIZING THE NUTRITIONAL NEEDS OF AN ANIMAL AND FOR SELECTING FOOD PRODUCTS**
[54] **PROCEDES DE CARACTERISATION DES BESOINS NUTRITIONNELS D'UN ANIMAL, ET DE SELECTION DE PRODUITS ALIMENTAIRES**
[72] ROCHE, JEAN-BAPTISTE, FR
[72] MONTOYA, MATHIEU, FR
[72] PEREA, SALLY, US
[71] MARS, INCORPORATED, US
[85] 2022-09-26
[86] 2021-04-07 (PCT/US2021/026197)
[87] (WO2021/207370)
[30] EP (20168471.9) 2020-04-07

[21] **3,173,517**
[13] A1

[51] **Int.Cl. A61K 51/08 (2006.01) A61K 49/14 (2006.01)**
[25] EN
[54] **SELECTIVE GIP RECEPTOR AGONISTS COMPRISING A CHELATING MOIETY FOR IMAGING AND THERAPY PURPOSES**
[54] **AGONISTES SELECTIFS DU RECEPTEUR DE GIP COMPRENANT UNE FRACTION CHELATANTE A DES FINS D'IMAGERIE ET DE THERAPIE**
[72] EVERS, ANDREAS, DE
[72] WAGNER, MICHAEL, DE
[72] HAACK, TORSTEN, DE
[72] BOSSART, MARTIN, DE
[72] LORENZ, KATRIN, DE
[71] ANTAROS MEDICAL AB, SE
[85] 2022-09-26
[86] 2021-03-30 (PCT/EP2021/058250)
[87] (WO2021/198229)
[30] EP (20315081.8) 2020-03-31

[21] **3,173,518**
[13] A1

[51] **Int.Cl. A23K 20/147 (2016.01) A23K 40/20 (2016.01) A23K 50/40 (2016.01) A61K 47/44 (2017.01)**
[25] EN
[54] **PALATABLE SUPPORT COMPOSITIONS FOR ADMINISTRATION OF MEDICINAL PRODUCTS**
[54] **COMPOSITIONS DE SUPPORT AU GOUT AGREABLE POUR L'ADMINISTRATION DE PRODUITS MEDICINAUX**
[72] BRECIN, KARINE, FR
[72] VIALLE, SANDRINE, FR
[72] RAASCH, MELODY, US
[71] MARS, INCORPORATED, US
[85] 2022-09-26
[86] 2021-04-23 (PCT/US2021/028872)
[87] (WO2021/225803)
[30] EP (20173110.6) 2020-05-06

[21] **3,173,519**
[13] A1

[51] **Int.Cl. C07K 1/113 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING MULTISPECIFIC ANTIGEN-BINDING MOLECULES**
[54] **PROCEDE DE PRODUCTION DE MOLECULES MULTISPECIFIQUES DE LIAISON A UN ANTIGENE**
[72] CHICHILI, VISHNU PRIYANKA REDDY, SG
[72] PANG, CHAI LING, SG
[72] KAWA, TATSUYA, JP
[72] FENG, SHU, SG
[72] GAN, SIOK WAN, SG
[72] TAKAHASHI, NORIYUKI, SG
[72] MURAOKA, MASARU, JP
[71] CHUGAI SEIYAKU KABUSHIKI-KAISHA, JP
[85] 2022-09-26
[86] 2021-03-31 (PCT/JP2021/013795)
[87] (WO2021/201087)
[30] JP (2020-062601) 2020-03-31

Demandes PCT entrant en phase nationale

[21] **3,173,529**
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE AND METHOD**
[54] **SYSTEME ET PROCEDE DE FOURNITURE D'AEROSOL**
[72] HOWARD, MATTHEW, GB
[72] POYNTON, SIMON, GB
[72] VINTOLA, TOMI, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-27
[86] 2021-04-19 (PCT/GB2021/050929)
[87] (WO2021/209771)
[30] GB (2005623.0) 2020-04-17

[21] **3,173,531**
[13] A1

[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/30 (2020.01)**
[25] EN
[54] **ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM**
[54] **ARTICLE DESTINE A ETRE UTILISE DANS UN SYSTEME DE FOURNITURE D'AEROSOL**
[72] FALLON, GARY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-27
[86] 2021-08-02 (PCT/GB2021/051988)
[87] (WO2022/023776)
[30] GB (2011955.8) 2020-07-31

[21] **3,173,532**
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A24D 1/20 (2020.01) A24F 40/20 (2020.01) A24B 15/28 (2006.01)**
[25] EN
[54] **AEROSOL GENERATION**
[54] **GENERATION D'AEROSOL**
[72] ABI AOUN, WALID, GB
[72] CROSS, JENNIFER, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-27
[86] 2021-08-24 (PCT/EP2021/073420)
[87] (WO2022/043338)
[30] GB (2013212.2) 2020-08-24

[21] **3,173,557**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-PD-L1 ANTIBODIES AND FUSION PROTEINS THEREOF**
[54] **ANTICORPS ANTI-PD-L1 ET PROTEINES DE FUSION DE CORRESPONDANTES**
[72] PENG, LI, US
[72] CHE, JENNY, US
[72] XU, LIHUI, US
[71] PALLEON PHARMACEUTICALS INC., US
[85] 2022-09-27
[86] 2022-01-06 (PCT/US2022/011504)
[87] (WO2022/150521)
[30] US (63/134,412) 2021-01-06

[21] **3,173,560**
[13] A1

[51] **Int.Cl. A61K 35/36 (2015.01) A61K 35/33 (2015.01) A61K 8/98 (2006.01) A61L 27/24 (2006.01) A61P 17/02 (2006.01)**
[25] FR
[54] **BIOMATERIAL COMPRISING A POROUS RESORBABLE MATRIX AND ASSOCIATED MANUFACTURING METHOD**
[54] **BIOMATERIAU COMPRENANT UNE MATRICE POREUSE RESORBABLE ET PROCEDE DE FABRICATION ASSOCIE**
[72] JOBEILI, LARA MARWA, FR
[72] LELLOUCH, ALEXANDRE GASTON MICKAEL, FR
[72] RACHIDI, WALID, FR
[72] LANTIERI, LAURENT ALEXANDRE, FR
[71] UNIVERSITE GRENOBLE ALPES, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2022-09-27
[86] 2021-03-29 (PCT/EP2021/058151)
[87] (WO2021/198177)
[30] FR (2003125) 2020-03-30

[21] **3,173,568**
[13] A1

[51] **Int.Cl. B07B 1/46 (2006.01)**
[25] EN
[54] **SCREEN ASSEMBLY FOR VIBRATORY SEPARATION**
[54] **ENSEMBLE TAMIS POUR SEPARATION PAR VIBRATIONS**
[72] SCOTT, ERIC, US
[71] NATIONAL OILWELL VARCO, L.P., US
[85] 2022-09-27
[86] 2021-04-13 (PCT/US2021/027128)
[87] (WO2021/216322)
[30] US (16/856,945) 2020-04-23

PCT Applications Entering the National Phase

[21] **3,173,569**
[13] A1

[51] **Int.Cl. C07D 405/04 (2006.01) C07D 405/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **ALLOSTERIC CHROMENONE INHIBITORS OF PHOSPHOINOSITIDE 3-KINASE (PI3K) FOR THE TREATMENT OF DISEASES ASSOCIATED WITH PI3K MODULATION**

[54] **INHIBITEURS CHROMENONE ALLOSTERIQUES DE LA PHOSPHOINOSITIDE 3-KINASE (PI3K) POUR LE TRAITEMENT DE MALADIES ASSOCIEES A LA MODULATION DE PI3K**

[72] ANDERSON, ERIN DANIELLE, US

[72] ARONOW, SEAN DOUGLAS, US

[72] BOYLES, NICHOLAS A., US

[72] DAHLGREN, MARKUS K., US

[72] FENG, SHULU, US

[72] GERASYUTO, ALEKSEY I., US

[72] HICKEY, EUGENE R., US

[72] IRVIN, THOMAS COMBS, US

[72] KESICKI, EDWARD A., US

[72] KLIPPEL-GIESE, ANKE, US

[72] KNIGHT, JENNIFER LYNN, US

[72] KOLAKOWSKI, GABRIELLE R., US

[72] KUMAR, MANOJ, US

[72] LONG, KATELYN FRANCES, US

[72] MAYNE, CHRISTOPHER GLENN, US

[72] MCELLIGOTT, DAVID L., US

[72] MCLEAN, JOHNATHAN ALEXANDER, US

[72] PUCA, LOREDANA, US

[72] RAVI, KANNAN KARUKURICHI, US

[72] SEVERANCE, DANIEL LEE, US

[72] WELCH, MICHAEL BRIAN, US

[72] WIDJAJA, TIEN, US

[71] PETRA PHARMA CORPORATION, US

[85] 2022-09-27

[86] 2021-04-02 (PCT/US2021/025521)

[87] (WO2021/202964)

[30] US (63/005,096) 2020-04-03

[21] **3,173,577**
[13] A1

[51] **Int.Cl. A61B 34/30 (2016.01)**

[25] EN

[54] **SURGICAL ROBOT SYSTEM**

[54] **SYSTEME DE ROBOT CHIRURGICAL**

[72] XU, KAI, CN

[72] XIONG, KE, CN

[72] LI, WULIN, CN

[72] ZHANG, SHU'AN, CN

[71] BEIJING SURGERII TECHNOLOGY CO., LTD., CN

[85] 2022-09-27

[86] 2021-03-24 (PCT/CN2021/082651)

[87] (WO2022/001224)

[30] CN (202010617376.2) 2020-06-30

[30] CN (202010716439.X) 2020-07-23

[30] CN (202010727664.3) 2020-07-23

[21] **3,173,578**
[13] A1

[51] **Int.Cl. B66C 23/00 (2006.01)**

[25] EN

[54] **BOOM ASSEMBLY WITH TRANSLATABLE COUNTERBALANCE MASS**

[54] **ENSEMBLE FLECHE A MASSE D'EQUILIBRAGE DEPLACABLE**

[72] DONALDSON, JAMES A., US

[71] TEREX SOUTH DAKOTA, INC., US

[85] 2022-09-27

[86] 2021-04-01 (PCT/US2021/025310)

[87] (WO2021/202831)

[30] US (16/837,572) 2020-04-01

[21] **3,173,582**
[13] A1

[51] **Int.Cl. E06B 3/663 (2006.01)**

[25] EN

[54] **SPACER FOR INSULATED GLAZING**

[54] **DISPOSITIF D'ESPACEMENT POUR VITRAGE ISOLE**

[72] BERGS, BIANCA, DE

[72] MARJAN, CHRISTOPHER, DE

[72] STAHL-BIDINGER, MARKUS, DE

[72] SCHWERDT, EGBERT, CH

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2022-09-27

[86] 2021-04-26 (PCT/EP2021/060792)

[87] (WO2021/224042)

[30] EP (20173128.8) 2020-05-06

[21] **3,173,585**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) C12M 1/00 (2006.01)**

[25] EN

[54] **FLUID LAYING DEVICE, FLUID LAYING METHOD, FLUID LAYING SYSTEM, COMPOSITE DEVICE, AND FLUID PASSAGE DEVICE FIELD.**

[54] **DISPOSITIF D'EPANDAGE DE LIQUIDE, PROCEDE D'EPANDAGE DE LIQUIDE, SYSTEME D'EPANDAGE DE LIQUIDE, DISPOSITIF DE COMBINAISON, ET DISPOSITIF DE PASSAGE DE LIQUIDE**

[72] CUI, XINGYE, CN

[72] YANG, JOONMO, US

[72] XU, HONG, CN

[72] SUI, XIANGKUN, CN

[72] BOGDAN, GREG, US

[71] MGI TECH CO., LTD., CN

[85] 2022-09-27

[86] 2020-04-20 (PCT/CN2020/085635)

[87] (WO2021/212276)

[21] **3,173,586**
[13] A1

[51] **Int.Cl. A41D 31/02 (2019.01) A41D 31/04 (2019.01) A41D 31/08 (2019.01) A41D 31/102 (2019.01) A41D 31/28 (2019.01)**

[25] EN

[54] **REINFORCEMENT MATERIAL FOR A GARMENT, AND METHOD FOR MANUFACTURING THE SAME**

[54] **MATERIAU DE RENFORCEMENT POUR VETEMENT ET SON PROCEDE DE FABRICATION**

[72] FILTEAU, MARTIN, CA

[71] STEDFAST INC., CA

[85] 2022-09-27

[86] 2021-09-09 (PCT/CA2021/051243)

[87] (WO2022/051850)

[30] US (63/075,885) 2020-09-09

Demandes PCT entrant en phase nationale

[21] **3,173,587**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **DLL3-TARGETING MULTISPECIFIC ANTIGEN-BINDING MOLECULES AND USES THEREOF**

[54] **MOLECULES MULTISPECIFIQUES DE LIAISON A L'ANTIGENE CIBLANT DLL3 ET LEURS UTILISATIONS**

[72] NAOI, SOTARO, JP

[72] FENG, SHU, SG

[72] IGAWA, TOMOYUKI, SG

[72] HO, SHU WEN SAMANTHA, SG

[71] CHUGAI SEIYAKU KABUSHIKI-KAISHA, JP

[85] 2022-09-27

[86] 2021-03-30 (PCT/JP2021/013460)

[87] (WO2021/200898)

[30] JP (2020-062326) 2020-03-31

[21] **3,173,592**
[13] A1

[51] **Int.Cl. E05B 17/20 (2006.01) E05B 67/22 (2006.01)**

[25] EN

[54] **ELECTRONIC PADLOCK**

[54] **CADENAS ELECTRONIQUE**

[72] SKOGSTROM, PETER, FI

[72] HEISKANEN, VILLE, FI

[71] ABLOY OY, FI

[85] 2022-09-27

[86] 2021-05-07 (PCT/FI2021/050336)

[87] (WO2021/229143)

[30] FI (20205477) 2020-05-13

[21] **3,173,595**
[13] A1

[51] **Int.Cl. B23Q 7/14 (2006.01) B23Q 7/16 (2006.01) B23Q 41/02 (2006.01) B27M 1/08 (2006.01)**

[25] EN

[54] **PRODUCTION CELL WITH WORKPIECE RETURN**

[54] **CELLULE DE PRODUCTION A RETOUR DE PIECES**

[72] ZIMMER, MARTIN, DE

[72] ZIMMER, GUNTHER, DE

[71] ZIMMER, MARTIN, DE

[71] ZIMMER, GUNTHER, DE

[85] 2022-09-27

[86] 2021-03-23 (PCT/DE2021/000051)

[87] (WO2021/190681)

[30] DE (DE 10 2020 001 963.3) 2020-03-27

[21] **3,173,597**
[13] A1

[51] **Int.Cl. A61M 1/34 (2006.01) A61M 1/36 (2006.01)**

[25] EN

[54] **TREATMENT OF VIRAL INFECTION BY APHERESIS**

[54] **TRAITEMENT D'INFECTION VIRALE PAR APHERESE**

[72] ELIAZ, ISAAC, US

[71] ELIAZ THERAPEUTICS INC, US

[85] 2022-09-27

[86] 2021-09-12 (PCT/US2021/049981)

[87] (WO2022/056341)

[21] **3,173,599**
[13] A1

[51] **Int.Cl. G01N 21/63 (2006.01) G01N 21/64 (2006.01) G01N 37/00 (2006.01)**

[25] EN

[54] **PATHOGEN DETECTION USING APTAMER MOLECULAR PHOTONIC BEACONS**

[54] **DETECTION DE PATHOGENES A L'AIDE DE BALISES PHOTONIQUES MOLECULAIRES APTAMERES**

[72] KHALID, NAJEEB ASHRAF, CA

[72] KHALID, NAQEEB, CA

[71] 4233999 CANADA INC., CA

[85] 2022-09-27

[86] 2021-06-24 (PCT/CA2021/050869)

[87] (WO2021/258210)

[30] US (63/044,602) 2020-06-26

[30] US (17/026,138) 2020-09-18

[30] US (17/182,130) 2021-02-22

[30] US (63/152,308) 2021-02-22

[21] **3,173,600**
[13] A1

[51] **Int.Cl. B01J 27/051 (2006.01) B01J 23/88 (2006.01) B01J 23/882 (2006.01) B01J 23/887 (2006.01) C07C 1/12 (2006.01) C07C 29/153 (2006.01)**

[25] EN

[54] **MOLYBDENUM-BASED CATALYSTS FOR CARBON DIOXIDE CONVERSION**

[54] **CATALYSEURS A BASE DE MOLYBDENE POUR LA CONVERSION DE DIOXYDE DE CARBONE**

[72] SHEEHAN, STAFFORD W., US

[72] CHEN, CHI, US

[71] AIR COMPANY HOLDINGS, INC., US

[85] 2022-09-27

[86] 2021-05-05 (PCT/US2021/030785)

[87] (WO2021/226172)

[30] US (63/021,989) 2020-05-08

[30] US (63/114,779) 2020-11-17

[21] **3,173,601**
[13] A1

[51] **Int.Cl. B01J 23/00 (2006.01) C07C 7/156 (2006.01) C07C 29/80 (2006.01) C10G 29/06 (2006.01)**

[25] EN

[54] **ALLOYS AND METHODS FOR ENHANCED IMPURITY REMOVAL IN DISTILLATION PROCESSES**

[54] **ALLIAGES ET PROCEDES D'ELIMINATION AMELIOREE D'IMPURETES DANS DES PROCEDES DE DISTILLATION**

[72] SHEEHAN, STAFFORD W., US

[72] TRAINOR, MICHAEL, CA

[71] AIR COMPANY HOLDINGS, INC., US

[85] 2022-09-27

[86] 2021-08-05 (PCT/US2021/044740)

[87] (WO2022/031967)

[30] US (63/062,039) 2020-08-06

PCT Applications Entering the National Phase

[21] **3,173,603**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01)**
[25] EN
[54] **SELECTIVE TARGETING OF THE TREML1/MD2 INTERACTION BY SMALL PEPTIDE OR PROTEIN AND ITS USE FOR VACCINE ADJUVANTS**

[54] **CIBLAGE SELECTIF DE L'INTERACTION TREML1/MD2 PAR UN PETIT PEPTIDE OU UNE PETITE PROTEINE ET SON UTILISATION POUR DES ADJUVANTS VACCINAUX**

[72] LU, YEN-TA, TW
[72] CHANG, CHIA-MING, TW
[72] LEE, FRANK WEN-CHI, US
[72] HUANG, PING-YEN, TW
[72] TSAI, I-FANG, TW
[71] ASCENDO BIOTECHNOLOGY, INC., TW

[71] LEE, FRANK WEN-CHI, US
[85] 2022-09-27
[86] 2021-05-14 (PCT/US2021/032620)
[87] (WO2021/231971)
[30] US (63/025,152) 2020-05-14

[21] **3,173,605**
[13] A1

[51] **Int.Cl. H01M 8/04119 (2016.01)**
[25] EN
[54] **HUMIDIFIER FOR FUEL CELL**
[54] **HUMIDIFICATEUR DE PILE A COMBUSTIBLE**

[72] OH, YOUNGSEOK, KR
[72] LEE, AHREUM, KR
[72] LEE, JIYOON, KR
[71] KOLON INDUSTRIES, INC., KR
[85] 2022-09-27
[86] 2021-06-23 (PCT/KR2021/007852)
[87] (WO2022/005089)
[30] KR (10-2020-0081638) 2020-07-02

[21] **3,173,606**
[13] A1

[51] **Int.Cl. A23F 3/16 (2006.01) A23L 19/00 (2016.01) A23L 2/38 (2021.01)**
[25] EN
[54] **MICROORGANISM COMPATIBLE ALCOHOLIC KOMBUCHA FLAVORINGS**

[54] **AROMES DE KOMBUCHA COMPATIBLES AVEC DES MICRO-ORGANISMES**

[72] MORA, SERGIO, US
[71] MORA, SERGIO, US
[85] 2022-09-27
[86] 2021-03-29 (PCT/US2021/024746)
[87] (WO2021/202430)
[30] US (63/001,346) 2020-03-29

[21] **3,173,607**
[13] A1

[51] **Int.Cl. G07C 11/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ENERGY PROJECT STATUS DETECTION**

[54] **SYSTEME ET PROCEDE DE DETECTION DE STATUT DE PROJET ENERGETIQUE**

[72] ZHENG, JINGWEN, CA
[72] MENG, FANCHI, CA
[72] HUANG, JIARAO, CA
[72] HESS, CURTIS, CA
[71] RS ENERGY GROUP TOPCO, INC. CA., CA
[85] 2022-09-27
[86] 2021-05-28 (PCT/IB2021/054702)
[87] (WO2021/240463)
[30] US (63/031,677) 2020-05-29

[21] **3,173,609**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/67 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **ARTIFICIAL EXPRESSION CONSTRUCTS FOR SELECTIVELY MODULATING GENE EXPRESSION IN NON-NEURONAL BRAIN CELLS**

[54] **CONSTRUCTIONS D'EXPRESSION ARTIFICIELLES POUR MODULER SELECTIVEMENT L'EXPRESSION GENIQUE DANS DES CELLULES CEREBRALES NON NEURONALES**

[72] TING, JONATHAN, US
[72] TASIC, BOSILJKA, US
[72] LEVI, BOAZ P., US
[72] DAIGLE, TANYA, US
[72] GRAYBUCK, LUCAS T., US
[72] LEIN, EDWARD SEBASTIAN, US
[72] MICH, JOHN K., US
[72] SEDENO CORTES, ADRIANA ESTELA, US
[72] ZENG, HONGKUI, US
[71] ALLEN INSTITUTE, US
[85] 2022-09-27
[86] 2021-03-26 (PCT/US2021/024525)
[87] (WO2021/195591)
[30] US (63/001,159) 2020-03-27

[21] **3,173,611**
[13] A1

[51] **Int.Cl. A61K 31/357 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **TREATING PULMONARY INFLAMMATORY DISEASE ASSOCIATED WITH COVID-19 BY ADMINISTERING RESINIFERATOXIN**

[54] **TRAITEMENT D'UNE MALADIE INFLAMMATOIRE PULMONAIRE ASSOCIEE A LA COVID-19 PAR ADMINISTRATION DE RESINIFERATOXINE**

[72] NAHAMA, ALEXIS, US
[72] JI, HENRY HONGJUN, US
[72] ZUCKER, IRVING H., US
[72] WANG, HANJUN, US
[71] SORRENTO THERAPEUTICS, INC., US
[71] BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, US
[85] 2022-09-27
[86] 2021-03-12 (PCT/US2021/022089)
[87] (WO2021/202084)
[30] US (63/002,165) 2020-03-30
[30] US (63/122,858) 2020-12-08

Demandes PCT entrant en phase nationale

[21] **3,173,612**
[13] A1

[51] **Int.Cl. C08J 9/228 (2006.01) B29C 70/68 (2006.01)**
[25] EN
[54] **MATERIAL SHAPING METHOD AND SHAPED PRODUCTS**
[54] **PROCEDE DE FACONNAGE D'UN MATERIAU ET PRODUITS FACONNES**
[72] WELLS, FELIX HUGO, NZ
[71] LEXUR, LIMITED, NZ
[85] 2022-09-27
[86] 2021-04-08 (PCT/NZ2021/050060)
[87] (WO2021/206567)
[30] NZ (763347) 2020-04-08

[21] **3,173,613**
[13] A1

[51] **Int.Cl. A61K 38/55 (2006.01) G01N 33/50 (2006.01) G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **INHIBITORS FOR USE IN TREATING LIVER DISORDERS**
[54] **INHIBITEURS UTILISABLES POUR TRAITER DES TROUBLES HEPATIQUES**
[72] HEIKENWALDER, MATHIAS, DE
[72] LI, XIN, DE
[72] RAMADORI, PIERLUIGI, DE
[72] HALLER, DIRK, DE
[71] DEUTSCHES KREBSFORSCHUNGSZENTRUM, STIFTUNG DES OFFENTLICHEN RECHTS, DE
[85] 2022-09-27
[86] 2021-11-12 (PCT/EP2021/081596)
[87] (WO2022/101449)
[30] EP (20207251.8) 2020-11-12

[21] **3,173,614**
[13] A1

[51] **Int.Cl. A61L 2/24 (2006.01)**
[25] EN
[54] **MOBILE DISINFECTION APPARATUSES HAVING VISUAL MARKER DETECTION SYSTEMS AND METHODS OF THEIR USE**
[54] **APPAREILS DE DESINFECTION MOBILES COMPRENANT DES SYSTEMES DE DETECTION DE MARQUEUR VISUEL ET LEURS PROCEDES D'UTILISATION**
[72] ALY, SHERIF, US
[72] FROUTAN, PAUL, US
[72] STIBICH, MARK, US
[72] WHITELONIS, NICHOLAS, US
[71] XENEX DISINFECTION SERVICES INC., US
[85] 2022-09-27
[86] 2020-07-17 (PCT/US2020/042448)
[87] (WO2022/015318)

[21] **3,173,615**
[13] A1

[51] **Int.Cl. A01K 61/30 (2017.01) A01K 97/04 (2006.01)**
[25] EN
[54] **URCHIN CULLING MECHANISM AND ATTRACTANT METHOD**
[54] **MECANISME DE REFORME D'OURSINS ET PROCEDE D'ATTRACTION**
[72] YANCEY, DENNIS DWAYNE JR., US
[72] MCCLUNG, ARTHUR III, US
[71] COASTAL WATERS BIOTECHNOLOGY 2, INC., US
[85] 2022-09-27
[86] 2021-04-06 (PCT/US2021/025898)
[87] (WO2021/207142)
[30] US (63/005,615) 2020-04-06

[21] **3,173,619**
[13] A1

[51] **Int.Cl. G01H 3/12 (2006.01) G01H 11/02 (2006.01) H04R 1/38 (2006.01)**
[25] EN
[54] **ACOUSTIC VECTOR SENSOR**
[54] **CAPTEUR DE VECTEURS ACOUSTIQUES**
[72] COLLINS, JAMESON JOHN, US
[71] RAYTHEON BBN TECHNOLOGIES, US
[85] 2022-09-27
[86] 2021-02-09 (PCT/US2021/017243)
[87] (WO2021/206798)
[30] US (16/844,343) 2020-04-09

[21] **3,173,620**
[13] A1

[51] **Int.Cl. E04C 2/292 (2006.01) E04D 3/35 (2006.01)**
[25] EN
[54] **BUILDING PANEL AND COUPLING SYSTEM FOR SUCH BUILDING PANELS**
[54] **PANNEAU DE CONSTRUCTION ET SYSTEME DE D'ACCOUPLLEMENT POUR DE TELS PANNEAUX DE CONSTRUCTION**
[72] HOLLAAR, GERRIT JAN, NL
[72] VAN DE GROENENDAAL, MICHIEL, NL
[71] WEST.NEDER.LAND. SANDWICH PANELEN B.V., NL
[85] 2022-09-27
[86] 2021-04-16 (PCT/NL2021/050246)
[87] (WO2021/215910)
[30] NL (2025373) 2020-04-20

[21] **3,173,621**
[13] A1

[51] **Int.Cl. G06K 19/04 (2006.01) G07F 7/08 (2006.01)**
[25] EN
[54] **FINANCIAL CARD WITH DYNAMIC VIEWING ANGLES TO BLOCK CARD INFORMATION**
[54] **CARTE FINANCIERE A ANGLES DE VISUALISATION DYNAMIQUES POUR BLOQUER DES INFORMATIONS DE CARTE**
[72] WALTERS, AUSTIN, US
[72] GOODSITT, JEREMY, US
[72] RAFFERTY, GALEN, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-09-27
[86] 2021-05-25 (PCT/US2021/033955)
[87] (WO2021/242710)
[30] US (16/887,944) 2020-05-29

PCT Applications Entering the National Phase

[21] **3,173,623**
[13] A1

[51] **Int.Cl. G02B 5/18 (2006.01) G02B 27/10 (2006.01) H01S 3/13 (2006.01)**
[25] EN
[54] **VOLUME BRAGG GRATING IN A CYLINDRICAL BULK MEDIUM**
[54] **RESEAU DE BRAGG EN VOLUME DANS UN MILIEU EN VRAC CYLINDRIQUE**
[72] TREPANIER, FRANCOIS, CA
[72] BOUDREAU, SYLVAIN, CA
[72] MAILLOUX, ALAIN, CA
[72] BROCHU, GUILLAUME, CA
[71] TERAXION INC., CA
[85] 2022-09-27
[86] 2022-03-08 (PCT/CA2022/050328)
[87] (WO2022/187945)
[30] US (63/200,452) 2021-03-08

[21] **3,173,624**
[13] A1

[51] **Int.Cl. G06F 21/78 (2013.01)**
[25] EN
[54] **NUTS: FLEXIBLE HIERARCHY OBJECT GRAPHS**
[54] **NUTS : GRAPHES D'OBJETS A HIERARCHIE FLEXIBLE**
[72] AUH, YOON HO, US
[72] BENNIG, NICHOLAS, US
[72] TRIANTAFILLOU, SOTIRIOS, US
[71] NUTS HOLDINGS, LLC, US
[85] 2022-09-27
[86] 2021-03-26 (PCT/US2021/024356)
[87] (WO2021/206934)
[30] US (63/007,636) 2020-04-09

[21] **3,173,627**
[13] A1

[51] **Int.Cl. G05G 5/05 (2006.01)**
[25] FR
[54] **HUMAN-MACHINE INTERFACE**
[54] **INTERFACE HOMME-MACHINE**
[72] CARTON, HERVE, FR
[72] VERDIER, MORGAN, FR
[71] CROUZET, FR
[85] 2022-09-27
[86] 2021-02-17 (PCT/EP2021/053901)
[87] (WO2021/190826)
[30] FR (FR2003046) 2020-03-27

[21] **3,173,628**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **DE NOVO PROTEIN DECOYS OF ANGIOTENSIN-CONVERTING ENZYME 2 (ACE2)**
[54] **LEURRES PROTEIQUES DE NOVO DE L'ENZYME 2 DE CONVERSION DE L'ANGIOTENSINE (ACE2)**
[72] LINSKY, THOMAS, US
[72] SILVA MANZANO, DANIEL ADRIANO, US
[72] CODINA CASTILLO, NURIA, US
[72] NELSON, JORGEN, US
[72] WALKER, MATTHEW JAMES, US
[71] NEOLEUKIN THERAPEUTICS, INC., US
[85] 2022-09-27
[86] 2021-04-06 (PCT/US2021/025974)
[87] (WO2021/207207)
[30] US (63/006,463) 2020-04-07
[30] US (63/028,401) 2020-05-21
[30] US (62/705,150) 2020-06-13
[30] US (63/055,051) 2020-07-22
[30] US (63/060,489) 2020-08-03
[30] US (63/094,179) 2020-10-20
[30] US (63/145,352) 2021-02-03

[21] **3,173,629**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01)**
[25] EN
[54] **BRAF DEGRADERS**
[54] **AGENTS DE DEGRADATION DE BRAF**
[72] DOLENTE, COSIMO, CH
[72] DUPLESSIS, MARTIN, US
[72] FITZGERALD, MARK E., US
[72] GARZA, VICTORIA, US
[72] GOOD, ANDREW CHARLES, US
[72] HEWINGS, DAVID STEPHEN, CH
[72] HUNZIKER, DANIEL, CH
[72] JACKSON, KATRINA L., US
[72] KUHN, BERND, CH
[72] LIANG, YANKE, US
[72] MOUSTAKIM, MOSES, US
[72] NASVESCHUK, CHRISTOPHER G., US
[72] O'SHEA, MORGAN WELZEL, US
[72] PETTAZZONI, PIERGIORGIO FRANCESCO TOMMASO, CH
[72] RICKLIN, FABIENNE, CH
[72] RIEMER, CLAUS, CH
[72] VEITS, GESINE KERSTIN, US
[72] WICHMANN, JUERGEN, CH
[72] YAP, JEREMY L., US
[72] YU, ROBERT T., US
[71] F. HOFFMANN-LA ROCHE AG, CH
[71] C4 THERAPEUTICS, INC., US
[85] 2022-09-27
[86] 2021-06-18 (PCT/EP2021/066524)
[87] (WO2021/255212)
[30] EP (20180967.0) 2020-06-19
[30] US (63/041,335) 2020-06-19
[30] US (63/136,574) 2021-01-12

Demandes PCT entrant en phase nationale

[21] **3,173,631**
[13] A1

[51] **Int.Cl. A61K 38/46 (2006.01) A61P 19/08 (2006.01)**

[25] EN

[54] **ALKALINE PHOSPHATASE POLYPEPTIDES AND METHODS OF USE THEREOF**

[54] **POLYPEPTIDES DE PHOSPHATASE ALCALINE ET LEURS METHODES D'UTILISATION**

[72] VOEGTLI, WALTER C., US

[72] WU, YUHONG, US

[72] MONTELEONE, JONATHAN, US

[72] MEZHEBOVSKY, TATYANA, US

[72] FALCONE, ERIC, US

[72] GUO, YANG, US

[71] ALEXION PHARMACEUTICALS, INC., US

[85] 2022-09-27

[86] 2022-02-10 (PCT/US2022/016031)

[87] (WO2022/173987)

[30] US (63/149,090) 2021-02-12

[21] **3,173,632**
[13] A1

[51] **Int.Cl. B01D 53/04 (2006.01) B01D 53/06 (2006.01) B01D 53/26 (2006.01)**

[25] EN

[54] **A METHOD AND ARRANGEMENT FOR CAPTURING CARBON DIOXIDE FROM A GAS STREAM USING AN ADSORPTION SYSTEM COMPRISING A HEAT STORAGE AND RECOVERY UNIT**

[54] **PROCEDE ET AGENCEMENT POUR CAPTURER DU DIOXYDE DE CARBONE A PARTIR D'UN FLUX DE GAZ AU MOYEN D'UN SYSTEME D'ADSORPTION COMPRENANT UNE UNITE DE STOCKAGE ET DE RECUPERATION DE CHALEU**

[72] CHRISTENSEN, TOR, NO

[71] GREENCAP SOLUTIONS AS, NO

[85] 2022-09-27

[86] 2021-04-07 (PCT/NO2021/050095)

[87] (WO2021/206564)

[30] NO (20200431) 2020-04-07

[21] **3,173,633**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/7012 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **SIALIC ACID COMPOSITIONS FOR USE IN INHIBITING AND TREATING CORONAVIRUS INFECTION**

[54] **COMPOSITIONS D'ACIDE SIALIQUE DESTINEES A ETRE UTILISEES DANS L'INHIBITION ET LE TRAITEMENT D'UNE INFECTION A CORONAVIRUS**

[72] REMMEREIT, JAN, NO

[71] LIFESCIENCE AS, NO

[85] 2022-09-27

[86] 2021-03-31 (PCT/IB2021/000200)

[87] (WO2021/198774)

[30] US (63/003,477) 2020-04-01

[21] **3,173,634**
[13] A1

[51] **Int.Cl. G06E 3/00 (2006.01)**

[25] EN

[54] **PARALLEL OPTICAL COMPUTING SYSTEM**

[54] **SYSTEME INFORMATIQUE OPTIQUE PARALLELE**

[72] LORETI, LUIGI, IT

[72] VAGLI, MAURIZIO, CH

[71] ACCORD PACIFIC EUROPE SA, CH

[85] 2022-09-27

[86] 2020-04-09 (PCT/IB2020/053388)

[87] (WO2021/205213)

[21] **3,173,635**
[13] A1

[51] **Int.Cl. A23L 31/00 (2016.01) A23L 33/10 (2016.01) A61K 36/07 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR MODULATING INFLAMMATORY RESPONSE**

[54] **COMPOSITIONS ET METHODES DE MODULATION D'UNE REPONSE INFLAMMATOIRE**

[72] STAMETS, PAUL E., US

[71] TURTLE BEAR HOLDINGS, LLC, US

[85] 2022-09-27

[86] 2021-04-02 (PCT/US2021/025553)

[87] (WO2021/202982)

[30] US (63/004,788) 2020-04-03

[30] US (63/029,815) 2020-05-26

[21] **3,173,637**
[13] A1

[51] **Int.Cl. G16H 10/40 (2018.01) G16H 40/63 (2018.01)**

[25] EN

[54] **IMAGE-BASED ANALYSIS OF A TEST KIT**

[54] **ANALYSE A BASE D'IMAGES D'UN KIT D'ESSAI**

[72] SATISH, SIDDARTH, US

[72] SCHERF, STEVEN, US

[72] CARROLL, CHARLES PETERSON, US

[72] KUMAR, MAYANK, US

[71] EXA HEALTH, INC., US

[85] 2022-09-27

[86] 2021-04-01 (PCT/US2021/025359)

[87] (WO2021/202866)

[30] US (63/004,431) 2020-04-02

[21] **3,173,638**
[13] A1

[51] **Int.Cl. C07C 29/80 (2006.01) C07C 31/04 (2006.01)**

[25] EN

[54] **PROCESS AND APPARATUS FOR DISTILLATION**

[54] **PROCEDE ET DISPOSITIF DE DISTILLATION**

[72] SORENSEN, ESBEN LAUGE, DK

[72] DAHL, PER JUUL, DK

[72] CLARIDGE, TAIS BJERG, SE

[72] QUINTERO, JOHANNES, DK

[71] TOPSOE A/S, DK

[85] 2022-09-27

[86] 2021-06-23 (PCT/EP2021/067159)

[87] (WO2022/002721)

[30] EP (20182805.0) 2020-06-29

PCT Applications Entering the National Phase

[21] **3,173,641**
[13] A1

[51] **Int.Cl. A23L 33/115 (2016.01) A23L 33/17 (2016.01) A61K 31/135 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **METHOD OF TREATMENT FOR ANOREXIA NERVOSA, BULIMIA AND RELATED CLINICAL SYNDROMES**

[54] **PROCEDE DE TRAITEMENT DE L'ANOREXIE MENTALE, DE LA BOULIMIE ET DES SYNDROMES CLINIQUES ASSOCIES**

[72] SCOLNICK, BARBARA, US

[72] BECHWITH, CAROLINE, US

[71] HOMEOSTASIS THERAPEUTICS, LIMITED, US

[85] 2022-09-27

[86] 2021-03-29 (PCT/US2021/024671)

[87] (WO2021/195627)

[30] US (63/000,786) 2020-03-27

[21] **3,173,642**
[13] A1

[51] **Int.Cl. H01J 37/04 (2006.01) H01J 37/09 (2006.01) H01J 37/12 (2006.01) H01J 37/26 (2006.01)**

[25] EN

[54] **APERTURE ASSEMBLY, BEAM MANIPULATOR UNIT, METHOD OF MANIPULATING CHARGED PARTICLE BEAMS, AND CHARGED PARTICLE PROJECTION APPARATUS**

[54] **ENSEMBLE D'OUVERTURE, UNITE DE MANIPULATEUR DE FAISCEAU, PROCEDE DE MANIPULATION DE FAISCEAUX DE PARTICULES CHARGEES, ET APPAREIL DE PROJECTION DE PARTICULES CHARGEES**

[72] WIELAND, MARCO JAN-JACO, NL

[71] ASML NETHERLANDS B.V., NL

[85] 2022-09-27

[86] 2021-04-04 (PCT/EP2021/058823)

[87] (WO2021/204733)

[30] EP (20168281.2) 2020-04-06

[21] **3,173,643**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**

[25] EN

[54] **METHOD OF DIFFERENTIATING OF A CHRONIC KIDNEY DISEASE OR GLOMERULOPATHY, METHOD OF MONITORING A RESPONSE TO TREATMENT OF A CHRONIC KIDNEY DISEASE OR GLOMERULOPATHY IN A SUBJECT AND A METHOD OF TREATMENT OF A CHRONIC KIDNEY DISEASE OR GLOMERULOPATHY**

[54] **PROCEDE DE DIFFERENCIATION D'UNE MALADIE RENALE CHRONIQUE OU D'UNE GLOMERULOPATHIE, PROCEDE DE SURVEILLANCE D'UNE REPONSE AU TRAITEMENT CONTRE UNE MALADIE RENALE CHRONIQUE OU UNE GLOMERULOPATHIE CHEZ UN SUJET ET METHODE DE TRAITEMENT D'UNE MALADIE RENALE CHRONIQUE OU D'UNE GLOMERULOPATHI**

[72] MUCHA, KRZYSZTOF, PL

[72] ZAGOZDZON, RADOSLAW, PL

[72] FORONCEWICZ, BARTOSZ, PL

[72] PACZEK, LESZEK, PL

[72] MOSZCZUK, BARBARA, PL

[72] KRATA, NATALIA, PL

[72] CYSEWSKI, DOMINIK, PL

[72] DOMANSKI, DOMINIK, PL

[72] DADLEZ, MICHAL, PL

[72] BURDUKIEWICZ, MICHAL, PL

[71] WARSZAWSKI UNIWERSYTET MEDYCZNY, PL

[71] INSTYTUT BIOCHEMII I BIOFIZYKI PAN, PL

[85] 2022-09-27

[86] 2020-11-10 (PCT/IB2020/060569)

[87] (WO2021/152371)

[30] PL (P.432779) 2020-01-31

[21] **3,173,644**
[13] A1

[51] **Int.Cl. B01J 21/02 (2006.01) B01J 23/26 (2006.01) B01J 23/80 (2006.01)**

[25] EN

[54] **MODIFIED COPPER-ZINC CATALYSTS AND METHODS FOR ALCOHOL PRODUCTION FROM CARBON DIOXIDE**

[54] **CATALYSEURS CUIVRE-ZINC MODIFIES ET PROCEDES DE PRODUCTION D'ALCOOL A PARTIR DE DIOXYDE DE CARBONE**

[72] SHEEHAN, STAFFORD W., US

[72] CHEN, CHI, US

[71] AIR COMPANY HOLDINGS, INC., US

[85] 2022-09-27

[86] 2021-06-24 (PCT/US2021/038802)

[87] (WO2021/262922)

[30] US (63/044,175) 2020-06-25

[30] US (63/114,783) 2020-11-17

[21] **3,173,645**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 34/30 (2016.01)**

[25] EN

[54] **SINGLE-PORT SURGICAL DEVICE AND MEDICAL DEVICE SYSTEM**

[54] **APPAREIL CHIRURGICAL A TROU UNIQUE ET SYSTEME DE DISPOSITIF MEDICAL**

[72] XU, KAI, CN

[72] ZHANG, SHU'AN, CN

[72] REN, YITANG, CN

[72] HE, ZHIREN, CN

[71] BEIJING SURGERII TECHNOLOGY CO., LTD., CN

[85] 2022-09-27

[86] 2021-06-15 (PCT/CN2021/099937)

[87] (WO2022/017064)

[30] CN (202010716227.1) 2020-07-23

[30] CN (202010846093.5) 2020-08-19

Demandes PCT entrant en phase nationale

[21] **3,173,646**
[13] A1

[51] **Int.Cl. A01G 33/00 (2006.01) A23L 29/256 (2016.01)**
[25] EN
[54] **SEAWEED CULTIVATION METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE CULTURE D'ALGUES**
[72] CACERES VILLEGAS, JULIAN HERMOYNER, CL
[72] TAPIA, EMILIO ANTONIO MERCADO, CL
[72] ALLARD-LATOURE, AURELIE MARIE, FR
[72] JAN, SEBASTIEN BERNARD MARIE, FR
[71] CARGILL, INCORPORATED, US
[85] 2022-09-27
[86] 2021-03-25 (PCT/US2021/024129)
[87] (WO2021/202233)
[30] EP (20167539.4) 2020-04-01

[21] **3,173,647**
[13] A1

[51] **Int.Cl. A61K 31/7125 (2006.01) C12N 15/113 (2010.01) A61P 27/02 (2006.01) C12N 9/14 (2006.01)**
[25] EN
[54] **OPA1 ANTISENSE OLIGOMERS FOR TREATMENT OF CONDITIONS AND DISEASES**
[54] **OLIGOMERES ANTISENS OPA1 POUR LE TRAITEMENT DE PATHOLOGIES ET DE MALADIES**
[72] AZNAREZ, ISABEL, US
[72] VENKATESH, ADITYA, US
[72] LIAU, GENE, US
[71] STROKE THERAPEUTICS, INC., US
[85] 2022-09-27
[86] 2021-04-30 (PCT/US2021/030254)
[87] (WO2021/231107)
[30] US (63/023,013) 2020-05-11
[30] US (63/112,458) 2020-11-11

[21] **3,173,648**
[13] A1

[51] **Int.Cl. G07C 5/00 (2006.01) G07C 5/08 (2006.01)**
[25] EN
[54] **VEHICLE SAFETY FEATURE IDENTIFICATION AND CALIBRATION**
[54] **IDENTIFICATION ET ETALONNAGE D'ELEMENTS DE SECURITE DE VEHICULES**
[72] BALAN, TODD-MICHAEL, US
[71] CALPRO ADAS SOLUTIONS, LLC, US
[85] 2022-09-27
[86] 2021-03-26 (PCT/US2021/024429)
[87] (WO2021/202296)
[30] US (63/002,889) 2020-03-31
[30] US (17/249,025) 2021-02-17

[21] **3,173,649**
[13] A1

[51] **Int.Cl. H01R 4/02 (2006.01) B29C 45/14 (2006.01) B60R 16/02 (2006.01) H01B 7/00 (2006.01) H01R 13/502 (2006.01) H01R 13/52 (2006.01) H01R 43/02 (2006.01)**
[25] EN
[54] **INJECTION MOLDED WIRE HARNESS AND MOLDING METHOD**
[54] **FAISCEAU DE CABLES MOULE PAR INJECTION ET PROCEDE DE MOULAGE**
[72] WANG, CHAO, CN
[71] CHANGCHUN JETTY AUTOMOTIVE PARTS CORPORATION, CN
[85] 2022-09-27
[86] 2021-04-01 (PCT/CN2021/084898)
[87] (WO2021/204054)
[30] CN (202010283020.X) 2020-04-10

[21] **3,173,650**
[13] A1

[51] **Int.Cl. A61M 3/02 (2006.01) B65D 41/04 (2006.01)**
[25] EN
[54] **UNIVERSAL CAPPING SYSTEM AND THE METHOD OF USE THEREOF**
[54] **SYSTEME DE CAPSULAGE UNIVERSEL ET SON PROCEDE D'UTILISATION**
[72] PARTSCH, GEORGE J., US
[71] PARTSCH, GEORGE J., US
[85] 2022-09-27
[86] 2021-03-31 (PCT/US2021/025282)
[87] (WO2021/202818)
[30] US (63/003,276) 2020-03-31

[21] **3,173,652**
[13] A1

[51] **Int.Cl. A61B 17/42 (2006.01) A61M 25/00 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **APPLICATOR FOR DELIVERY OF A PRODUCT THERETHROUGH**
[54] **APPLICATEUR POUR DISTRIBUER UN PRODUIT A TRAVERS CELUI-CI**
[72] RAJAN, SUJATA SUNDARA, US
[72] ZENG, MING, US
[72] WHARTON, JONATHAN ANDREW, US
[72] SNOWDEN, TIMOTHY, US
[72] DOZIER, PAMELA, US
[72] ORME, BRIAN, US
[72] INGRASSIA, MEREDITH, US
[71] CHURCH & DWIGHT CO., INC., US
[85] 2022-09-27
[86] 2021-03-31 (PCT/US2021/025075)
[87] (WO2021/202654)
[30] US (63/003,586) 2020-04-01

PCT Applications Entering the National Phase

[21] **3,173,653**
[13] A1

[51] **Int.Cl. C07F 19/00 (2006.01)**
[25] EN
[54] **HIGH YIELD SYNTHESIS OF METAL-ORGANIC FRAMEWORKS**
[54] **SYNTHESE A HAUT RENDEMENT DE STRUCTURES ORGANOMETALLIQUES**
[72] ABNEY, CARTER W., US
[72] IVASHKO, ANNA C., US
[72] MAJANO, GERARDO J., US
[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
[85] 2022-09-27
[86] 2021-02-16 (PCT/US2021/018248)
[87] (WO2021/216174)
[30] US (63/014,309) 2020-04-23

[21] **3,173,654**
[13] A1

[51] **Int.Cl. A61K 47/60 (2017.01) C07D 249/04 (2006.01)**
[25] EN
[54] **COMPOSITION OF SCALABLE THYROINTEGRIN ANTAGONISTS WITH IMPROVED BLOOD BRAIN BARRIER PENETRATION AND RETENTION IN BRAIN TUMORS**
[54] **COMPOSITION D'ANTAGONISTES DE LA THYROINTEGRINE EVOLUTIFS PRESENTANT UNE PENETRATION DE LA BARRIERE HEMATO-ENCEPHALIQUE ET UNE RETENTION DANS LES TUMEURS CEREBRALES AMELIOREES**
[72] MOUSA, SHAKER A., US
[72] HAY, BRUCE A., US
[71] NANOPHARMACEUTICALS, LLC, US
[85] 2022-09-27
[86] 2021-03-26 (PCT/US2021/024294)
[87] (WO2021/221836)
[30] US (16/862,076) 2020-04-29

[21] **3,173,655**
[13] A1

[51] **Int.Cl. H05K 1/02 (2006.01) H05K 3/46 (2006.01)**
[25] FR
[54] **ELECTRONIC CIRCUIT**
[54] **CIRCUIT ELECTRONIQUE**
[72] VINCENT, JACQUES, FR
[72] RAGONNEAU, MARC, FR
[72] ROLLIN, PASCAL, FR
[72] DUFFAUD, BERTRAND, FR
[72] BELNOUE, OLIVIER, FR
[71] SAFRAN VENTILATION SYSTEMS, FR
[71] ELVIA PRINTED CIRCUIT BOARDS, FR
[85] 2022-09-27
[86] 2021-04-01 (PCT/FR2021/050582)
[87] (WO2021/198625)
[30] FR (FR 2003364) 2020-04-03

[21] **3,173,656**
[13] A1

[51] **Int.Cl. A61K 31/7076 (2006.01) A61K 31/708 (2006.01) B01D 9/02 (2006.01) C07D 405/14 (2006.01) C07H 19/20 (2006.01)**
[25] EN
[54] **ADVANTAGEOUS MORPHIC FORM OF AT-527 HEMI-SULFATE SALT**
[54] **FORME MORPHIQUE AVANTAGEUSE DE SEL HEMI-SULFATE D'AT-527**
[72] MOUSSA, ADEL, US
[71] ATEA PHARMACEUTICALS, INC., US
[85] 2022-09-27
[86] 2022-01-26 (PCT/US2022/013953)
[87] (WO2022/164941)
[30] US (63/141,789) 2021-01-26

[21] **3,173,657**
[13] A1

[51] **Int.Cl. F16L 3/202 (2006.01) F16L 3/133 (2006.01)**
[25] EN
[54] **STRUCTURE ATTACHMENT FOR HANGING SUPPORT SYSTEM**
[54] **ATTACHE DE STRUCTURE POUR SYSTEME DE SUPPORT SUSPENDU**
[72] LATINO, RICHARD MICHAEL, US
[72] BROOKS, DAVID CHARLES, US
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2022-09-27
[86] 2021-04-06 (PCT/EP2021/025126)
[87] (WO2021/197672)
[30] US (63/005,024) 2020-04-03

[21] **3,173,658**
[13] A1

[51] **Int.Cl. A61K 31/403 (2006.01) C07D 209/92 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **ADVANTAGEOUS THERAPIES FOR DISORDERS MEDIATED BY IKAROS OR AIOLOS**
[54] **THERAPIES AVANTAGEUSES POUR DES TROUBLES MEDIES PAR IKAROS OU AIOLOS**
[72] PROIA, DAVID, US
[72] HENDERSON, JAMES A., US
[72] HE, MINSHENG, US
[72] GOOD, ANDREW CHARLES, US
[72] PHILLIPS, ANDREW J., US
[71] C4 THERAPEUTICS, INC., US
[85] 2022-09-27
[86] 2021-08-06 (PCT/US2021/045000)
[87] (WO2022/032132)
[30] US (63/063,011) 2020-08-07
[30] US (63/212,463) 2021-06-18
[30] US (63/173,160) 2021-04-09

Demandes PCT entrant en phase nationale

[21] **3,173,659**
[13] A1

[51] **Int.Cl. F42D 99/00 (2009.01) F42D 1/08 (2006.01) F42D 3/04 (2006.01)**

[25] EN

[54] **DISTINCT ELEMENT ROCK BLASTING MOVEMENT METHODS, APPARATUSES, AND SYSTEMS**

[54] **PROCEDES, APPAREILS ET SYSTEMES DE MOUVEMENT DE DYNAMITAGE DE ROCHES A ELEMENTS DISTINCTS**

[72] PREECE, DALE S., US

[72] BHUIYAN, A B M ABDUL ALI, US

[71] DYNNOBEL INC., US

[85] 2022-09-27

[86] 2021-05-20 (PCT/US2021/033411)

[87] (WO2021/236932)

[30] US (63/028,345) 2020-05-21

[30] US (63/124,412) 2020-12-11

[30] US (17/324,704) 2021-05-19

[21] **3,173,661**
[13] A1

[51] **Int.Cl. C07F 9/6574 (2006.01) C07H 19/14 (2006.01)**

[25] EN

[54] **STEREOSELECTIVE MANUFACTURE OF SELECTED PURINE PHOSPHORAMIDATES PRODUCTION**

[54] **STEREOSELECTIVE DE PHOSPHORAMIDATES DE PURINE SELECTIONNES**

[72] MOUSSA, ADEL, US

[72] CHAUDHURI, NARAYAN, US

[71] ATEA PHARMACEUTICALS, INC., US

[85] 2022-09-27

[86] 2021-08-19 (PCT/US2021/046778)

[87] (WO2022/040473)

[30] US (63/067,726) 2020-08-19

[30] US (63/074,302) 2020-09-03

[30] US (63/094,759) 2020-10-21

[30] US (63/129,306) 2020-12-22

[21] **3,173,662**
[13] A1

[51] **Int.Cl. A61M 5/00 (2006.01) A61M 5/20 (2006.01) A61M 5/315 (2006.01)**

[25] EN

[54] **IMPROVED SYSTEMS, COMPONENTS, AND COMBINATIONS THEREOF FOR PEN-TYPE INJECTION DEVICES**

[54] **SYSTEMES AMELIORES, COMPOSANTS ET COMBINAISONS DE CEUX-CI POUR DISPOSITIFS D'INJECTION DE TYPE STYLO**

[72] QUINN, MICHAEL, US

[72] CRONENBERG, RICHARD, US

[72] BOYER, ROBERT, US

[72] GORSHKOV, ALEXANDER, US

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2022-09-27

[86] 2021-03-26 (PCT/US2021/024337)

[87] (WO2021/195483)

[30] US (63/001,122) 2020-03-27

[21] **3,173,665**
[13] A1

[51] **Int.Cl. A61K 8/00 (2006.01) A61K 5/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS CONTAINING NEUTRALIZED AMINO ACID ESTERS AND GLYCERIDES**

[54] **COMPOSITIONS CONTENANT DES ESTERS D'ACIDES AMINES NEUTRALISES ET DES GLYCERIDES**

[72] MURPHY, DENNIS S., US

[72] BUTIKAS, RENATA A., US

[72] FAUNCE, JAMES A., US

[72] WOLFE, PATRICK SHANE, US

[71] STEPAN COMPANY, US

[85] 2022-09-27

[86] 2021-03-25 (PCT/US2021/024225)

[87] (WO2021/195424)

[30] US (63/000,988) 2020-03-27

[21] **3,173,667**
[13] A1

[51] **Int.Cl. G02F 1/163 (2006.01) H02J 50/20 (2016.01) H02J 50/80 (2016.01) G05B 19/042 (2006.01)**

[25] EN

[54] **ATMOSPHERIC ADJUSTMENT IN AN ENCLOSURE**

[54] **AJUSTEMENT ATMOSPHERIQUE DANS UNE ENCEINTE**

[72] GUPTA, ANURAG, US

[72] ABTAHI, MOHAMMADREZA, US

[72] MACNAUGHTON, PIERS IAIN IVO OCTAVIAN, US

[72] TRIKHA, NITESH, US

[72] MULPURI, RAO P., US

[72] DAYAL, ADITYA, US

[72] HUGHES, FOREST CANYON, US

[72] MALIK, AJAY, US

[72] SUI, SIYAO, US

[72] WANG, CHUQING, US

[71] VIEW, INC., US

[85] 2022-09-27

[86] 2021-07-26 (PCT/US2021/043143)

[87] (WO2022/026366)

[30] US (63/057,120) 2020-07-27

[30] US (17/083,128) 2020-10-28

[30] US (63/080,899) 2020-09-21

[30] US (63/078,805) 2020-09-15

[30] US (PCT/US2021/027418) 2021-04-15

[30] US (PCT/US2021/015378) 2021-01-28

[21] **3,173,668**
[13] A1

[51] **Int.Cl. A01H 1/06 (2006.01) A61K 39/395 (2006.01) A61K 39/44 (2006.01) A61P 35/00 (2006.01) C12N 9/24 (2006.01) C12N 15/09 (2006.01)**

[25] EN

[54] **SIALIDASE-HER2-ANTIBODY FUSION PROTEINS AND METHODS OF USE THEREOF**

[54] **PROTEINES DE FUSION D'ANTICORPS HER2-SIALIDASE ET PROCEDES D'UTILISATION ASSOCIES**

[72] PENG, LI, US

[72] CAO, LIZHI, US

[72] SHELKE, SANDIP A., US

[71] PALLEON PHARMACEUTICALS INC., US

[85] 2022-09-27

[86] 2022-01-06 (PCT/US2022/011499)

[87] (WO2022/150516)

[30] US (63/134,411) 2021-01-06

[30] US (63/217,998) 2021-07-02

PCT Applications Entering the National Phase

[21] **3,173,669**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01)**
[25] EN
[54] **A PROTECTIVE ASSEMBLY TO PROPERLY ANESTHETIZE THE ENTIRE URETHRA**
[54] **ENSEMBLE DE PROTECTION PERMETTANT D'ANESTHESIER CORRECTEMENT L'URETRE ENTIER**
[72] WIESMAN, JON, US
[71] WIESCONCEPTS, LLC, US
[85] 2022-09-27
[86] 2021-03-29 (PCT/US2021/024566)
[87] (WO2021/195609)
[30] US (63/000,919) 2020-03-27
[30] US (63/135,164) 2021-01-08

[21] **3,173,670**
[13] A1

[51] **Int.Cl. G05G 5/05 (2006.01) G05G 9/047 (2006.01) H01H 23/30 (2006.01)**
[25] EN
[54] **HUMAN-MACHINE INTERFACE**
[54] **INTERFACE HOMME-MACHINE**
[72] BEURDELEY, DAMIEN, FR
[72] CARTON, HERVE, FR
[72] MOLMERET, CELINE, FR
[72] DUSSERE, ADRIEN, FR
[71] CROUZET, FR
[85] 2022-09-27
[86] 2021-03-15 (PCT/EP2021/056469)
[87] (WO2021/197814)
[30] FR (FR2003361) 2020-04-03

[21] **3,173,671**
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **A METHOD FOR DETERMINING A LECTIN-BINDING GLYCAN INDICATIVE TO TRAUMATIC BRAIN INJURY**
[54] **METHODE DE DETERMINATION D'UN GLYCANE SE LIANT AUX LECTINES INDIQUANT UN TRAUMATISME CRANIOCEREBRAL**
[72] HAREL, ADRIAN, FI
[72] KVIST, MARTEN, FI
[72] VALIMAA, LASSE, FI
[72] UTZ, BEGUM, FI
[72] HAAVISTO, OSKAR, FI
[72] NURMI, VENLA-MARI, FI
[71] MEDICORTEX FINLAND OY, FI
[85] 2022-09-27
[86] 2021-02-10 (PCT/FI2021/050091)
[87] (WO2021/205059)
[30] US (16/840,931) 2020-04-06

[21] **3,173,672**
[13] A1

[51] **Int.Cl. C12Q 1/689 (2018.01) C12Q 1/6806 (2018.01) G16H 10/40 (2018.01) G16H 20/10 (2018.01) G16H 20/60 (2018.01)**
[25] EN
[54] **DIAGNOSTIC FOR ORAL CANCER**
[54] **DIAGNOSTIC POUR LE CANCER BUCCAL**
[72] BANAVAR, GURUDUTH S., US
[72] OGUNDIJO, TUNJI, US
[72] TILY, HAL, US
[72] VUYISICH, MOMCHILO, US
[72] PUNYADEERA, CHAMINDIE, AU
[71] VIOME LIFE SCIENCES, INC., US
[85] 2022-09-27
[86] 2021-03-28 (PCT/US2021/024547)
[87] (WO2021/195604)
[30] US (63/001,236) 2020-03-27

[21] **3,173,673**
[13] A1

[51] **Int.Cl. C12N 5/10 (2006.01) A61K 35/15 (2015.01) A61K 35/30 (2015.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **GENETICALLY ENGINEERED PHAGOCYTES, AND RELATED COMPOSITIONS, VECTORS, METHODS AND SYSTEMS**
[54] **PHAGOCYTES GENETIQUEMENT MODIFIES, ET COMPOSITIONS, VECTEURS, PROCEDES ET SYSTEMES ASSOCIES**
[72] MONTELL, DENISE, US
[72] MISHRA, ABHINAVA K., US
[72] TORRES ESPINOSA, ALBA Y., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-09-27
[86] 2021-04-23 (PCT/US2021/028972)
[87] (WO2021/217087)
[30] US (63/014,649) 2020-04-23
[30] US (63/126,379) 2020-12-16

[21] **3,173,675**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01) G06F 3/0481 (2022.01) G16H 10/60 (2018.01) G16H 50/20 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING PATIENT DISEASE LOAD**
[54] **SYSTEMES ET PROCEDES POUR DETERMINER LA CHARGE DE MORBIDITE D'UN PATIENT**
[72] DAY, ANDREW, US
[72] TERRY, JEFFREY RICHARDSON, US
[72] HUR, SIYUN, US
[72] UDDIN, ALA, US
[72] GRUM, MARK, US
[72] FAKHOURI, YOUNAN, US
[72] SAHARIYA, GAURAV, US
[72] DEVINE, GABRIELLA, US
[72] LISTER, SEAN, US
[71] GE PRECISION HEALTHCARE LLC, US
[85] 2022-09-27
[86] 2021-04-08 (PCT/US2021/026480)
[87] (WO2021/207553)
[30] US (63/008,597) 2020-04-10

Demandes PCT entrant en phase nationale

[21] **3,173,676**
[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01) A61P 27/06 (2006.01) A61P 27/10 (2006.01) A61P 27/12 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **A FORMULATION FOR TREATING OPHTHALMIC CONDITIONS**

[54] **FORMULATION POUR LE TRAITEMENT D'AFFECTIONS OPHTALMIQUES**

[72] ZANG, GUANGXI, CN

[72] LI, GEN, CN

[71] GUANGZHOU KANGRUI BIOLOGICAL PHARMACEUTICAL TECHNOLOGY CO., LTD., CN

[85] 2022-09-27

[86] 2021-04-23 (PCT/CN2021/089415)

[87] (WO2021/213512)

[30] CN (PCT/CN2020/086647) 2020-04-24

[21] **3,173,678**
[13] A1

[51] **Int.Cl. C07D 487/14 (2006.01) A61P 35/04 (2006.01) C07D 487/12 (2006.01)**

[25] EN

[54] **CYCLIN-DEPENDENT KINASE INHIBITING COMPOUNDS FOR THE TREATMENT OF MEDICAL DISORDERS**

[54] **COMPOSES INHIBITEURS DE KINASE DEPENDANT DE LA CYCLINE POUR LE TRAITEMENT D'AFFECTIONS MEDICALES**

[72] STRUM, JAY COPELAND, US

[71] G1 THERAPEUTICS, INC., US

[85] 2022-09-27

[86] 2021-05-18 (PCT/US2021/032976)

[87] (WO2021/236650)

[30] US (63/027,113) 2020-05-19

[30] US (63/085,672) 2020-09-30

[21] **3,173,679**
[13] A1

[51] **Int.Cl. A61K 31/381 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) C07D 333/48 (2006.01)**

[25] EN

[54] **INHIBITORS OF THE PEPTIDYL-PROLYL CIS/TRANS ISOMERASE (PIN1) AND USES THEREOF**

[54] **INHIBITEURS DE LA PEPTIDYL-PROLYL CIS/TRANS ISOMERASE (PIN1) ET LEURS UTILISATIONS**

[72] YOU, INCHUL, US

[72] GRAY, NATHANAEL S., US

[72] ZHANG, TINGHU, US

[72] DHE-PAGANON, SIRANO, US

[72] LONDON, NIR, IL

[72] DUBIELLA, CHRISTIAN, IL

[71] DANA-FARBER CANCER INSTITUTE, INC., US

[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL

[71] YOU, INCHUL, US

[71] GRAY, NATHANAEL S., US

[71] ZHANG, TINGHU, US

[71] DHE-PAGANON, SIRANO, US

[71] LONDON, NIR, IL

[71] DUBIELLA, CHRISTIAN, IL

[85] 2022-09-27

[86] 2022-03-18 (PCT/US2022/020857)

[87] (WO2022/197993)

[30] US (63/163,437) 2021-03-19

[21] **3,173,680**
[13] A1

[51] **Int.Cl. C12Q 1/6804 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6837 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/686 (2018.01)**

[25] EN

[54] **METHODS FOR DETECTING LOW LEVELS OF COVID-19 VIRUS**

[54] **PROCEDES DE DETECTION DE FAIBLES NIVEAUX DE VIRUS COVID-19**

[72] KATCHMAN, BENJAMIN ALAN, US

[72] NEWLAND, CORY SCOTT, US

[72] EGGERS, FREDERICK HENRY, US

[72] HOGAN, MICHAEL EDWARD, US

[71] PATHOGENDX, INC., US

[85] 2022-09-27

[86] 2021-03-25 (PCT/US2021/024064)

[87] (WO2021/195322)

[30] US (63/000,844) 2020-03-27

[30] US (16/950,210) 2020-11-17

[30] US (63/078,783) 2020-09-15

[21] **3,173,683**
[13] A1

[51] **Int.Cl. G01V 1/50 (2006.01) G01V 1/46 (2006.01) G01V 1/52 (2006.01)**

[25] EN

[54] **BOREHOLE LOCALIZATION RELATIVE TO OBJECTS AND SUBTERRANREAN FORMATIONS**

[54] **LOCALISATION DE TROUS DE FORAGES PAR RAPPORT A DES OBJETS ET A DES FORMATIONS SOUTERRAINES**

[72] CLEGG, NIGEL MARK, GB

[72] DURIEZ, ALBAN, US

[72] USAITIS, VYTAUTAS, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2022-09-27

[86] 2021-03-25 (PCT/US2021/024159)

[87] (WO2021/247123)

[30] US (63/035,325) 2020-06-05

[30] US (63/082,600) 2020-09-24

[30] US (17/212,486) 2021-03-25

[21] **3,173,684**
[13] A1

[51] **Int.Cl. A61B 34/30 (2016.01)**

[25] EN

[54] **ROBOT SYSTEM AND CONTROL METHOD**

[54] **SYSTEME ROBOTISE ET PROCEDE DE COMMANDE**

[72] XU, KAI, CN

[72] ZHAO, JIANGRAN, CN

[72] YANG, HAOZHE, CN

[71] BEIJING SURGERII TECHNOLOGY CO., LTD., CN

[85] 2022-09-27

[86] 2021-07-29 (PCT/CN2021/109302)

[87] (WO2022/037385)

[30] CN (202010838021.6) 2020-08-19

[30] CN (202010837232.8) 2020-08-19

PCT Applications Entering the National Phase

[21] **3,173,685**
[13] A1

[51] **Int.Cl. G03F 7/00 (2006.01) G03F 7/075 (2006.01)**
[25] EN
[54] **IMPRINTING APPARATUS**
[54] **APPAREIL D'IMPRESSIION**
[72] MERKEL, TIMOTHY J., US
[72] WANG, RUIBO, US
[72] WRIGHT, DANIEL, US
[72] CHAN, DANNY YUAN, US
[72] AIYAR, AVISHEK, US
[72] GHONGE, TANMAY, US
[72] BRAHMA, NEIL, US
[72] PITERA, ARTHUR, US
[71] ILLUMINA INC., US
[85] 2022-09-27
[86] 2021-03-23 (PCT/US2021/023649)
[87] (WO2021/195063)
[30] US (63/000,964) 2020-03-27

[21] **3,173,686**
[13] A1

[51] **Int.Cl. C04B 28/14 (2006.01)**
[25] EN
[54] **METHODS FOR RECLAIMING GYPSUM PANELS THAT CONTAIN HYDROPHOBIC MATERIALS AND USE THEREOF**
[54] **PROCEDES DE RECUPERATION DE PLAQUES DE PLATRE CONTENANT DES MATERIAUX HYDROPHOBES ET LEUR UTILISATION**
[72] VILINSKA, ANNAMARIA, US
[72] LI, ALFRED, US
[72] WALKER, BLAIR C., CA
[72] LAU, TE HUA, US
[72] SCHERMANN, RUDY A., US
[72] ERICKSON, STEPHEN P., US
[72] CARRAZCO, JOSE LUIS, US
[72] RUEDA, ANGEL ARTURO, US
[71] KNAUF GIPS KG, DE
[85] 2022-09-27
[86] 2021-04-07 (PCT/US2021/026145)
[87] (WO2021/221866)
[30] US (63/016,540) 2020-04-28
[30] US (17/210,789) 2021-03-24

[21] **3,173,689**
[13] A1

[51] **Int.Cl. B65D 41/34 (2006.01)**
[25] EN
[54] **CAP FOR CONTAINER**
[54] **BOUCHON POUR RECIPIENT**
[72] MAGUIRE, MICHAEL JOSEPH, US
[71] THISCAP, INC., US
[85] 2022-09-27
[86] 2020-10-31 (PCT/US2020/058438)
[87] (WO2021/201915)
[30] US (16/834,916) 2020-03-30

[21] **3,173,691**
[13] A1

[51] **Int.Cl. H01M 50/529 (2021.01) H01M 50/172 (2021.01) H01M 50/183 (2021.01)**
[25] EN
[54] **PASS-THROUGH CONNECTOR FOR A BATTERY PACK, BATTERY PACK, AND METHOD FOR INTRODUCING AT LEAST ONE GAS IN A HERMETICALLY SEALABLE CASING FOR A BATTERY PACK**
[54] **CONNECTEUR TRAVERSANT POUR BLOC-BATTERIE, BLOC-BATTERIE ET PROCEDE D'INTRODUCTION D'AU MOINS UN GAZ DANS UN BOITIER HERMETIQUEMENT SCELLE POUR BLOC-BATTERIE**
[72] GEOFFROY, SEBASTIEN, CA
[72] LACOUR, RONAN, CA
[71] BLUE SOLUTIONS CANADA INC., CA
[85] 2022-09-27
[86] 2021-04-21 (PCT/CA2021/050546)
[87] (WO2021/212224)
[30] US (63/013,780) 2020-04-22

[21] **3,173,693**
[13] A1

[51] **Int.Cl. G01N 21/31 (2006.01) G01N 21/3504 (2014.01) G01N 21/35 (2014.01) G01N 21/85 (2006.01)**
[25] FR
[54] **DRONE FOR MEASURING DATA REPRESENTATIVE OF THE CONTENT OF AT LEAST TWO GASES PRESENT IN THE ATMOSPHERE AWAY FROM THE GROUND AND ASSOCIATED MEASUREMENT METHOD**
[54] **DRONE DE MESURE DE DONNEES REPRESENTATIVES DE TENEURS EN AU MOINS DEUX GAZ PRESENTS DANS L'ATMOSPHERE A L'ECART DU SOL ET PROCEDE DE MESURE ASSOCIE**
[72] DONNAT, LUDOVIC, FR
[72] MAUNOURY, ABEL, FR
[72] JOLY, LILIAN, FR
[72] DECARPENTERIE, THOMAS, FR
[72] BURGALAT, JEREMIE, FR
[72] CHAUVIN, NICOLAS, FR
[72] ALBORA, GREGORY, FR
[72] DUMELIE, NICOLAS, FR
[72] COUSIN, JULIEN, FR
[71] TOTALENERGIES ONE TECH, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DE REIMS CHAMPAGNE-ARDENNES, FR
[85] 2022-09-27
[86] 2021-03-25 (PCT/EP2021/057765)
[87] (WO2021/191360)
[30] FR (FR2003027) 2020-03-27

[21] **3,173,696**
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) C12N 9/12 (2006.01) C12N 9/22 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **HYPERACTIVE TRANSPOSONS AND TRANSPOSASES**
[54] **TRANSPOSONS ET TRANSPOSASES HYPERACTIFS**
[72] SANDIG, VOLKER, DE
[72] KRUGENER, SVEN, DE
[72] ROSE, THOMAS, DE
[71] PROBIOGEN AG, DE
[85] 2022-09-27
[86] 2020-07-17 (PCT/EP2020/070320)
[87] (WO2022/012758)

Demandes PCT entrant en phase nationale

[21] **3,173,699**
[13] A1

[51] **Int.Cl. C12Q 1/686 (2018.01)**
[25] EN
[54] **LASH METHODS FOR SINGLE MOLECULE SEQUENCING & TARGET NUCLEIC ACID DETECTION**
[54] **PROCEDES DE LASH POUR LE SEQUENCAGE DE MOLECULE UNIQUE ET LA DETECTION D'ACIDE NUCLEIQUE CIBLE**
[72] ORTAC, INANC, US
[71] SARMAL, INC., US
[85] 2022-09-27
[86] 2021-03-29 (PCT/US2021/024721)
[87] (WO2021/195635)
[30] US (63/000,979) 2020-03-27

[21] **3,173,700**
[13] A1

[51] **Int.Cl. E04D 13/04 (2006.01)**
[25] EN
[54] **SUMP DRAIN APPARATUS, SYSTEM, AND METHOD OF CONSTRUCTION**
[54] **APPAREIL DE VIDANGE DE PUISARD, SYSTEME ET PROCEDE DE CONSTRUCTION**
[72] LESLIE, DAVID, US
[71] JMH INNOVATIVE SOLUTIONS, LLC, US
[85] 2022-09-27
[86] 2021-05-19 (PCT/US2021/033243)
[87] (WO2021/236826)
[30] US (16/882,148) 2020-05-22

[21] **3,173,701**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/166 (2006.01) A61K 31/185 (2006.01) A61K 31/198 (2006.01)**
[25] EN
[54] **NIRAN INTERFERING DRUGS FOR SARS-COV-2 MUTANT THERAPY**
[54] **MEDICAMENTS INTERFERANT AVEC NIRAN POUR THERAPIE MUTANTE CONTRE LE SARS-COV-2**
[72] SOMMADOSSI, JEAN-PIERRE, US
[72] CANARD, BRUNO, FR
[72] SHANNON, ASHLEIGH, FR
[72] LIN, KAI, US
[72] MOUSSA, ADEL, US
[71] ATEA PHARMACEUTICALS, INC., US
[85] 2022-09-27
[86] 2021-10-08 (PCT/US2021/054294)
[87] (WO2022/076903)
[30] US (63/090,090) 2020-10-09
[30] US (63/160,618) 2021-03-12
[30] US (63/135,494) 2021-01-08
[30] US (63/236,151) 2021-08-23

[21] **3,173,703**
[13] A1

[51] **Int.Cl. A61B 34/37 (2016.01) A61B 34/35 (2016.01)**
[25] EN
[54] **MASTER-SLAVE MOTION CONTROL METHOD, ROBOT SYSTEM, DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE DE COMMANDE DE MOUVEMENT MAITRE-ESCLAVE, SYSTEME DE ROBOT, DISPOSITIF ET SUPPORT D'ENREGISTREMENT**
[72] XU, KAI, CN
[72] YANG, HAOZHE, CN
[72] WU, BAIBO, CN
[72] WANG, XIANG, CN
[71] BEIJING SURGERII TECHNOLOGY CO., LTD., CN
[85] 2022-09-27
[86] 2021-06-30 (PCT/CN2021/103725)
[87] (WO2022/002155)
[30] CN (202010627477.8) 2020-07-01

[21] **3,173,704**
[13] A1

[51] **Int.Cl. H01R 13/6581 (2011.01) H01R 13/659 (2011.01) H01R 13/6591 (2011.01) H01R 13/658 (2011.01)**
[25] EN
[54] **DEVICES, SYSTEMS AND METHODS FOR REDUCING EMISSIONS AND RADIATED EMISSIONS AND SUSCEPTIBILITY**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR REDUIRE LES EMISSIONS PAR CONDUCTION ET LA SUSCEPTIBILITE**
[72] BOYD, CLARK D., US
[71] FACE INTERNATIONAL CORPORATION, US
[71] BOYD, CLARK D., US
[85] 2022-09-27
[86] 2021-03-31 (PCT/US2021/025284)
[87] (WO2021/242398)
[30] US (63/003,278) 2020-03-31
[30] US (63/014,443) 2020-04-23

[21] **3,173,705**
[13] A1

[51] **Int.Cl. A24B 15/167 (2020.01) A24B 15/30 (2006.01) A61K 31/522 (2006.01)**
[25] EN
[54] **AEROSOLISABLE FORMULATION**
[54] **FORMULATION AEROSOLISABLE**
[72] CARAWAY, JOHN WILL, JR., US
[72] DAVIS, MICHAEL FOSTER, US
[72] ROWE, JENNIFER MARIA, US
[72] ULRICH, JOHN, US
[71] RAI STRATEGIC HOLDINGS, INC., US
[85] 2022-09-27
[86] 2021-09-02 (PCT/IB2021/058006)
[87] (WO2022/049512)
[30] US (63/073,989) 2020-09-03

PCT Applications Entering the National Phase

[21] **3,173,706**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATION**
[54] **FORMULATION PHARMACEUTIQUE**
[72] CHRISTIAN, TWINKLE R., US
[72] JAGANNATHAN, BHARADWAJ, US
[72] DYKSTRA, ANDREW, US
[71] AMGEN INC., US
[85] 2022-09-27
[86] 2021-04-28 (PCT/US2021/029560)
[87] (WO2021/222355)
[30] US (63/017,051) 2020-04-29

[21] **3,173,707**
[13] A1

[51] **Int.Cl. G01N 29/11 (2006.01) G01N 29/46 (2006.01)**
[25] EN
[54] **LASER-BASED WELD INSPECTION METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME D'INSPECTION DE SOUDURE A BASE DE LASER**
[72] HIRAIWA, MORGAN JAMES, CA
[72] GARCIN, THOMAS, CA
[72] MARTEL CARBONNEAU, VINCENT, CA
[72] CHOQUET, MARC, CA
[72] NADEAU, ALEXANDRE, CA
[71] TECNAR AUTOMATION LTEE, CA
[85] 2022-09-27
[86] 2021-06-22 (PCT/CA2021/050852)
[87] (WO2022/087712)
[30] US (63/108,585) 2020-11-02

[21] **3,173,708**
[13] A1

[51] **Int.Cl. H01M 8/0656 (2016.01) H01M 8/0668 (2016.01) H01M 8/1246 (2016.01) C25B 1/23 (2021.01) C25B 13/07 (2021.01)**
[25] EN
[54] **SOLID OXIDE FUEL CELL SYSTEM WITH CARBON CAPTURE AND INCREASED EFFICIENCY**
[54] **SYSTEME DE PILE A COMBUSTIBLE A OXYDE SOLIDE AVEC CAPTURE DE CARBONE ET EFFICACITE ACCRUE**
[72] BROWN, CASY CLOUDLESS, CA
[71] VERSA POWER SYSTEMS LTD, US
[85] 2022-09-27
[86] 2021-12-03 (PCT/US2021/061745)
[87] (WO2022/150127)
[30] US (63/199,060) 2020-12-04

[21] **3,173,709**
[13] A1

[51] **Int.Cl. C12N 9/64 (2006.01)**
[25] EN
[54] **ADAMTS13 VARIANT, COMPOSITIONS, AND USES THEREOF**
[54] **VARIANT D'ADAMTS13, COMPOSITIONS ET LEURS UTILISATIONS**
[72] BACHMANN, FRIEDMUND, AT
[72] SEYFRIED, BIRGIT, AT
[72] GRANINGER, MICHAEL, AT
[72] MELLGARD, BJORN, US
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2022-09-27
[86] 2021-04-02 (PCT/IB2021/000210)
[87] (WO2021/198781)
[30] US (63/004,389) 2020-04-02

[21] **3,173,710**
[13] A1

[51] **Int.Cl. A45D 29/04 (2006.01)**
[25] EN
[54] **REMOVABLE ABRASIVE SLEEVE FOR A NAIL CARE DEVICE**
[54] **MANCHON ABRASIF AMOVIBLE POUR DISPOSITIF DE SOIN DES ONGLES**
[72] KOLODIAZHNYI, ALEKSEY VALERIEVYCH, UA
[71] KOLODIAZHNYI, ALEKSEY VALERIEVYCH, UA
[85] 2022-09-27
[86] 2020-09-08 (PCT/UA2020/000085)
[87] (WO2021/173106)
[30] UA (U 2020 04004) 2020-07-02

[21] **3,173,711**
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **MAINTAINING DNA FRAGMENTS IN EUKARYOTIC CELLS, APPROACHES AND USES**
[54] **MAINTIEN DE FRAGMENTS D'ADN DANS DES CELLULES EUCARYOTES, APPROCHES ET UTILISATIONS**
[72] STAERZ, UWE D., US
[72] QI, YAN, US
[72] CULL, JANAE WHEELER, US
[71] CIPO, CA
[71] GREFFEX, INC., US
[85] 2022-09-27
[86] 2021-03-29 (PCT/US2021/024567)
[87] (WO2021/202325)
[30] US (63/001,274) 2020-03-28

[21] **3,173,713**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/86 (2006.01)**
[25] EN
[54] **ENHANCEMENT OF THE PRODUCTION OF ADENOVIRUS-BASED GENETRANSFER VECTORS**
[54] **AMELIORATION DE LA PRODUCTION DE VECTEURS DE TRANSFERT GENETIQUE A BASE D'ADENOVIRUS**
[72] STAERZ, UWE D., US
[71] GREFFEX, INC., US
[85] 2022-09-27
[86] 2021-03-29 (PCT/US2021/024578)
[87] (WO2021/202333)
[30] US (63/001,758) 2020-03-30

Demandes PCT entrant en phase nationale

[21] **3,173,714**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 31/12 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **REPLICATION-DEFICIENT AVIAN ADENOVIRAL VECTORS, THEIR DESIGN AND USES**
[54] **VECTEURS ADENOVIRAUX AVIAIRES PRESENTANT UNE DEFICIENCE DE REPLICATION, LEUR CONCEPTION ET LEURS UTILISATIONS**
[72] STAERZ, UWE D., US
[71] GREFFEX, INC., US
[85] 2022-09-27
[86] 2021-03-29 (PCT/US2021/024576)
[87] (WO2021/202331)
[30] US (63/001,361) 2020-03-29

[21] **3,173,715**
[13] A1

[51] **Int.Cl. A61K 31/7068 (2006.01)**
[25] EN
[54] **ANTI-TUMOR AGENT**
[54] **AGENT ANTITUMORAL**
[72] MATSUMOTO, TAKESHI, JP
[72] KAKINUMA, CHIHAYA, JP
[72] MAKITA, KEIKO, JP
[71] FUJIFILM CORPORATION, JP
[85] 2022-09-27
[86] 2021-04-02 (PCT/JP2021/014285)
[87] (WO2021/201267)
[30] US (63/004,733) 2020-04-03
[30] JP (2020-086495) 2020-05-18

[21] **3,173,716**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DIGITAL WELLNESS**
[54] **SYSTEMES ET PROCEDES DE BIEN-ETRE NUMERIQUE**
[72] BOIVIN, MICHEL, CA
[72] Fiset, JACOB, CA
[72] GAMSBY, MARTIN, CA
[72] GUERIN, FRANCIS, CA
[72] ST-HILAIRE, SIMON, CA
[72] LUDUSAN, COSMIN V., CA
[71] MIRAMETRIX INC., CA
[85] 2022-09-27
[86] 2021-04-21 (PCT/CA2021/050550)
[87] (WO2021/212227)
[30] US (63/013,513) 2020-04-21

[21] **3,173,717**
[13] A1

[51] **Int.Cl. E04B 1/08 (2006.01) E04B 1/26 (2006.01) E04B 1/41 (2006.01) E04B 2/60 (2006.01) E04G 17/06 (2006.01) E04G 17/065 (2006.01) E04H 9/02 (2006.01)**
[25] EN
[54] **REINFORCED TIE ROD AND A BUILDING WALL USING THE SAME**
[54] **BARRE DE LIAISON RENFORCEE ET PAROI D'IMMEUBLE L'UTILISANT**
[72] ESPINOSA, THOMAS M., US
[71] CETRES HOLDINGS, LLC, US
[85] 2022-09-27
[86] 2021-04-02 (PCT/US2021/025519)
[87] (WO2021/202963)
[30] US (63/004,569) 2020-04-03

[21] **3,173,718**
[13] A1

[51] **Int.Cl. C12Q 1/04 (2006.01) C12Q 1/06 (2006.01) C12Q 1/18 (2006.01)**
[25] FR
[54] **RESEARCH INTO ANTIMICROBIAL RESISTANCE BY THE FIELD FLOW FRACTIONATION TECHNIQUE**
[54] **RECHERCHE DE RESISTANCE AUX ANTIMICROBIENS PAR LA METHODE DE FRACTIONNEMENT PAR COUPLAGE FLUX-FORCE**
[72] BATTU, SERGE, FR
[72] BEGAUD, GAELLE, FR
[72] DELABASSE, SYLVIE, FR
[72] BARRAUD, OLIVIER, FR
[72] DUVAL, RAPHAEL, FR
[72] CARDOT, PHILIPPE, FR
[71] UNIVERSITE DE LIMOGES, FR
[85] 2022-09-27
[86] 2021-04-06 (PCT/IB2021/052832)
[87] (WO2021/205330)
[30] FR (2003429) 2020-04-06

[21] **3,173,720**
[13] A1

[51] **Int.Cl. C07C 69/88 (2006.01) A61K 31/216 (2006.01) A61P 31/14 (2006.01) C07C 15/12 (2006.01) C07D 309/02 (2006.01) C07H 13/08 (2006.01)**
[25] EN
[54] **COMPOUNDS AND PHARMACEUTICAL USES THEREOF**
[54] **COMPOSES ET LEURS UTILISATIONS PHARMACEUTIQUES**
[72] TSAI, GUOCHUAN EMIL, US
[72] MAO, YI-WEN, CN
[72] LU, LU-PING, CN
[72] CHANG, WEI-HUA, CN
[72] HSIEH, HAN-YI, CN
[72] HU, JHE WEI, CN
[72] SHIH, TSAI-MIAO, CN
[72] HUANG, CHANHUI, CN
[71] SYNEURX INTERNATIONAL (TAIWAN) CORP., CN
[85] 2022-09-27
[86] 2021-04-23 (PCT/CN2021/089301)
[87] (WO2021/213500)
[30] US (63/014,448) 2020-04-23

[21] **3,173,722**
[13] A1

[51] **Int.Cl. A61P 3/10 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **MTORC1 MODULATORS AND USES THEREOF**
[54] **MODULATEURS DE MTORC1 ET LEURS UTILISATIONS**
[72] KINCAID, JOHN, US
[71] AEOVIAN PHARMACEUTICALS, INC., US
[85] 2022-09-27
[86] 2021-03-26 (PCT/US2021/024536)
[87] (WO2021/195599)
[30] US (63/001,177) 2020-03-27
[30] US (63/001,144) 2020-03-27
[30] US (63/001,187) 2020-03-27
[30] US (63/019,176) 2020-05-01
[30] US (63/054,763) 2020-07-21
[30] US (63/054,762) 2020-07-21
[30] US (63/054,768) 2020-07-21

PCT Applications Entering the National Phase

[21] **3,173,724**
[13] A1

[51] **Int.Cl. A01N 43/38 (2006.01) A01N 43/42 (2006.01) C08K 5/3417 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING ENDOMETRIOSIS**

[54] **METHODES DE TRAITEMENT DE L'ENDOMETRIOSE**

[72] SAFE, STEPHEN, US

[72] MOHANKUMAR, KUMARAVEL, US

[71] CIPO, CA

[71] THE TEXAS A&M UNIVERSITY SYSTEM, US

[85] 2022-09-27

[86] 2021-02-24 (PCT/US2021/019402)

[87] (WO2021/173660)

[30] US (62/981,431) 2020-02-25

[21] **3,173,728**
[13] A1

[51] **Int.Cl. C09D 5/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING COATING COMPOSITION WITH IMPROVED COLOR RETENTION**

[54] **PROCEDE DE PREPARATION D'UNE COMPOSITION DE REVETEMENT A RETENTION DE COULEUR AMELIOREE**

[72] CALLEJAS, JUAN F., US

[72] EINSLA, MELINDA L., US

[72] SOBCZAK, JEFFREY J., US

[72] WESTMEYER, MARK D., US

[71] ROHM AND HAAS COMPANY, US

[85] 2022-09-28

[86] 2021-04-12 (PCT/US2021/026856)

[87] (WO2021/216312)

[30] US (63/014,860) 2020-04-24

[21] **3,173,735**
[13] A1

[51] **Int.Cl. E21B 47/09 (2012.01)**

[25] EN

[54] **MAGNETIC FREEPOINT INDICATOR TOOL**

[54] **OUTIL INDICATEUR DE POINT LIBRE MAGNETIQUE**

[72] RATCLIFFE, JAMES DAVID, US

[72] SMITH, ANDREW, US

[72] GULLIVER, JIM ANDREW, US

[72] DUTTA, SUSHANT, US

[71] BAKER HUGHES OILFIELD OPERATIONS, LLC, US

[85] 2022-09-28

[86] 2021-04-28 (PCT/US2021/029646)

[87] (WO2021/222407)

[30] US (16/861,858) 2020-04-29

[30] US (16/910,935) 2020-06-24

[21] **3,173,739**
[13] A1

[51] **Int.Cl. A61K 8/49 (2006.01)**

[25] EN

[54] **SEMI-PERMANENT TATTOOS**

[54] **TATOUAGES SEMI-PERMANENTS**

[72] CAPUTO, CHRISTOPHER B., CA

[72] MANHAS, SANJAY, CA

[72] MALLOV, IAN, CA

[72] UM NLEND, INGRID, CA

[72] JEEVA, FIONA, CA

[72] HANDLEY, TYLER J., CA

[72] GARRARD, CHARLEY NICOLE, CA

[71] INKBOX INK INC., CA

[85] 2022-09-28

[86] 2021-08-12 (PCT/US2021/045767)

[87] (WO2022/036113)

[30] US (63/064,885) 2020-08-12

[21] **3,173,740**
[13] A1

[51] **Int.Cl. A61K 47/36 (2006.01) C12N 5/071 (2010.01) A01N 1/02 (2006.01) A23L 3/3562 (2006.01) A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 47/26 (2006.01) C07K 1/00 (2006.01) C08K 5/1545 (2006.01) C08L 5/00 (2006.01) C09K 15/06 (2006.01) C12N 1/04 (2006.01) C12N 1/20 (2006.01) C12N 7/00 (2006.01) C12N 9/96 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **METHOD OF LONG-TERM PRESERVATION OF CHEMICAL AND BIOLOGICAL SPECIES USING SUGAR GLASSES**

[54] **PROCEDE DE CONSERVATION A LONG TERME D'ESPECES CHIMIQUES ET BIOLOGIQUES A L'AIDE DE VERRES DE SUCRE**

[72] LEUNG, VINCENT HO YIN, CA

[72] JAHANSHAHI-ANBUHI, SANA, CA

[72] FILIPE, CARLOS, CA

[72] ALI, M. MONSUR, CA

[71] MCMASTER UNIVERSITY, CA

[85] 2022-09-28

[86] 2021-04-13 (PCT/CA2021/050494)

[87] (WO2021/207833)

[30] US (63/009,041) 2020-04-13

[21] **3,173,751**
[13] A1

[51] **Int.Cl. C01D 15/02 (2006.01) B01J 39/07 (2017.01) C22B 3/04 (2006.01) C22B 3/06 (2006.01) C22B 3/20 (2006.01) C22B 3/26 (2006.01) C22B 3/42 (2006.01) C22B 19/20 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING LITHIUM HYDROXIDE**

[54] **PROCEDE DE PRODUCTION D'HYDROXYDE DE LITHIUM**

[72] ARIYOSHI, HIROTAKA, JP

[72] TOMITA, ISAO, JP

[72] ABE, HIROSHI, JP

[71] JX NIPPON MINING & METALS CORPORATION, JP

[85] 2022-09-28

[86] 2021-04-21 (PCT/JP2021/016223)

[87] (WO2021/215486)

[30] JP (2020-075634) 2020-04-21

[30] JP (2020-075635) 2020-04-21

Demandes PCT entrant en phase nationale

[21] **3,173,753**
[13] A1

[51] **Int.Cl. B01D 9/02 (2006.01) B09B 3/00 (2022.01) B09B 5/00 (2006.01) C01G 51/00 (2006.01) C01G 53/00 (2006.01) C22B 3/26 (2006.01) C22B 3/32 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01) H01M 10/54 (2006.01)**

[25] EN
[54] **METHOD FOR PRODUCING MIXED METAL SALT**
[54] **METHODE DE PRODUCTION D'UN SEL METALLIQUE MIXTE**

[72] ARAKAWA, JUNICHI, JP
[72] TAJIRI, KAZUNORI, JP
[71] JX NIPPON MINING & METALS CORPORATION, JP
[85] 2022-09-28
[86] 2021-04-22 (PCT/JP2021/016381)
[87] (WO2021/215521)
[30] JP (2020-076947) 2020-04-23

[21] **3,173,755**
[13] A1

[51] **Int.Cl. A61M 31/00 (2006.01) C07D 207/48 (2006.01) C07D 211/96 (2006.01)**

[25] EN
[54] **INTEGRIN INHIBITOR AND USES THEREOF**
[54] **INHIBITEUR D'INTEGRINE ET SES UTILISATIONS**

[72] CHA, JACOB, US
[72] LEFOTHERIS, KATERINA, US
[72] QI, GAO, US
[72] WANG, JIAN, US
[72] ZHAO, DALIAN, US
[71] PLIANT THERAPEUTICS, INC., US
[85] 2022-09-28
[86] 2021-11-19 (PCT/US2021/072510)
[87] (WO2022/109598)
[30] US (63/116,042) 2020-11-19

[21] **3,173,757**
[13] A1

[51] **Int.Cl. C11D 3/22 (2006.01) C11D 7/32 (2006.01)**

[25] EN
[54] **TREATMENT COMPOSITIONS COMPRISING CATIONIC POLY ALPHA-1,6-GLUCAN ETHERS**
[54] **COMPOSITIONS COMPRENANT DES ETHERS DE POLY-ALPHA-1,6-GLUCANES CATIONIQUES**

[72] SIVIK, MARK ROBERT, US
[72] BARRERA, CAROLA, US
[72] FLITER, KRISTINE LYNN, US
[72] DEPOOT, KAREL JOZEF MARIA, BE
[72] WALRAVENS, WOUTER, BE
[72] VOLONT, CEDRIC JOSEPH, BE
[72] YATES, CLAIRE REBECCA, US
[72] MENKHAUS, JULIE ANN, US
[72] GOOD, DAVID, US
[72] SI, GANG, GB
[72] CHILTON, RUTH, GB
[72] GAGNON, MICHAEL D., US
[72] BURKHART, BRANDON J., US
[72] LU, HELEN, US
[72] QIU, WEIMING, US
[72] MCDONOUGH, KATHLEEN MARY, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-09-28
[86] 2021-06-17 (PCT/US2021/037767)
[87] (WO2021/257793)
[30] US (63/040,554) 2020-06-18
[30] EP (20183889.3) 2020-07-03

[21] **3,173,761**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 31/4375 (2006.01) A61K 31/444 (2006.01) A61K 31/4709 (2006.01) A61K 31/4725 (2006.01) A61K 31/497 (2006.01) A61K 31/498 (2006.01) A61K 31/506 (2006.01) A61K 31/517 (2006.01) A61K 31/5377 (2006.01) A61P 1/16 (2006.01) A61P 1/18 (2006.01) A61P 11/00 (2006.01) A61P 19/02 (2006.01) A61P 31/00 (2006.01) C07K 14/005 (2006.01) C07K 16/10 (2006.01)**

[25] EN
[54] **TREATMENT OF RESPIRATORY DISEASES WITH AMINO ACID COMPOUNDS**
[54] **TRAITEMENT DE MALADIES RESPIRATOIRES AVEC DES COMPOSES ACIDES AMINES**

[72] LEFEBVRE, ERIC, US
[72] TURNER, SCOTT, US
[72] CHA, JACOB, US
[72] DONG, CHENGGUO, US
[72] HOM, TIMOTHY, US
[72] JIANG, LAN, US
[72] LEFOTHERIS, KATERINA, US
[72] LI, HUI, US
[72] MORGANS JR., DAVID J., US
[72] MUNOZ, MANUEL, US
[72] REILLY, MAUREEN, US
[72] ZHENG, YAJUN, US
[72] ANDERSON, KRAIG, US
[71] PLIANT THERAPEUTICS, INC., US
[85] 2022-09-28
[86] 2021-04-30 (PCT/US2021/030363)
[87] (WO2021/225912)
[30] US (63/021,674) 2020-05-07

PCT Applications Entering the National Phase

[21] **3,173,764**
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01) H04B 7/204 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ADAPTIVE COMMUNICATIONS**
[54] **SYSTEME ET PROCEDE POUR COMMUNICATIONS ADAPTATIVES**
[72] GRANT, ALEXANDER JAMES, AU
[72] HALEY, DAVID VICTOR LAWRIE, AU
[72] LAYTON, KELVIN JON, AU
[72] MCKILLIAM, ROBERT GEORGE, AU
[71] MYRIOTA PTY LTD, AU
[85] 2022-09-27
[86] 2021-03-29 (PCT/AU2021/000027)
[87] (WO2021/195687)
[30] AU (2020901049) 2020-04-03

[21] **3,173,765**
[13] A1

[51] **Int.Cl. A42B 3/20 (2006.01) A42B 3/06 (2006.01) A42B 3/22 (2006.01)**
[25] EN
[54] **NON-IMPACT CONSTRUCTION FACE SHIELD**
[54] **VISIERE DE PROTECTION POUR CASQUE DE CONSTRUCTION ANTI-IMPACT**
[72] HOPPE, CHRISTOPHER S., US
[72] ZEILINGER, TODD ANDREW, US
[72] GOULD, SAMUEL A., US
[72] JONES, BENJAMIN T., US
[72] SUMMERSETT, NICOLE Z., US
[72] WILLIAMS, AARON M., US
[71] MILWAUKEE ELECTRIC TOOL CORPORATION, US
[85] 2022-09-28
[86] 2021-05-07 (PCT/US2021/031300)
[87] (WO2021/226459)
[30] US (63/022,259) 2020-05-08
[30] US (63/025,625) 2020-05-15

[21] **3,173,767**
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01) G06Q 50/22 (2018.01) G06F 21/62 (2013.01)**
[25] EN
[54] **CLOUD-BASED MEDICAL RECORD MANAGEMENT SYSTEM WITH PATIENT CONTROL**
[54] **SYSTEME DE GESTION DE DOSSIERS MEDICAUX DANS LE NUAGE AVEC CONTROLE DU PATIENT**
[72] BHARUCHA, NARIMAN, JM
[71] BHARUCHA, NARIMAN, JM
[85] 2022-09-27
[86] 2021-03-29 (PCT/IB2021/000204)
[87] (WO2021/191687)
[30] US (63/000,909) 2020-03-27

[21] **3,173,768**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) C07K 14/54 (2006.01) C12N 15/861 (2006.01)**
[25] EN
[54] **VIRAL VECTOR CONSTRUCTS FOR DELIVERY OF NUCLEIC ACIDS ENCODING CYTOKINES AND USES THEREOF FOR TREATING CANCER**
[54] **CONSTRUCTIONS DE VECTEURS VIRAUX POUR L'APPORT D'ACIDES NUCLEIQUES CODANT POUR DES CYTOKINES ET LEURS UTILISATIONS POUR LE TRAITEMENT DU CANCER**
[72] FURMANSKI, BRIAN, US
[72] GUPTA, NACHI, US
[72] SCHNEPP, BRUCE, US
[72] STONE, MICHELE, US
[71] KRIYA THERAPEUTICS, INC., US
[85] 2022-09-27
[86] 2021-10-13 (PCT/US2021/054871)
[87] (WO2022/081776)
[30] US (63/091,270) 2020-10-13
[30] US (63/108,838) 2020-11-02
[30] US (63/141,921) 2021-01-26
[30] US (63/182,632) 2021-04-30

[21] **3,173,769**
[13] A1

[51] **Int.Cl. C22B 3/08 (2006.01) C22B 3/06 (2006.01) C22B 3/44 (2006.01) C22B 11/10 (2006.01) C25C 1/12 (2006.01) C25C 1/20 (2006.01)**
[25] EN
[54] **METHOD FOR EXTRACTION OF COINAGE METALS**
[54] **PROCEDE D'EXTRACTION DE METAUX DE MONNAIE**
[72] MORADI, LOGHMAN, CA
[72] SALIMI, HIWA, CA
[72] NESDOLY, SHAWNA LYNN, CA
[72] BRATVOLD, JENNA KATHLEEN, CA
[71] EXCIR WORKS CORP., CA
[85] 2022-09-28
[86] 2021-10-04 (PCT/CA2021/051385)
[87] (WO2022/067448)
[30] US (63/086,664) 2020-10-02
[30] US (63/086,665) 2020-10-02

[21] **3,173,771**
[13] A1

[51] **Int.Cl. A61K 31/465 (2006.01) A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 9/70 (2006.01) A61K 47/36 (2006.01) A61P 25/34 (2006.01)**
[25] EN
[54] **NEW COMPOSITIONS FOR ORAL OR NASAL USE**
[54] **NOUVELLES COMPOSITIONS POUR UTILISATION ORALE OU NASALE**
[72] BJORKHOLM, JOHAN, SE
[72] BJORKHOLM, LARS, SE
[71] LIW INNOVATION AB, SE
[85] 2022-09-27
[86] 2021-04-06 (PCT/SE2021/050304)
[87] (WO2021/201765)
[30] SE (2050380-1) 2020-04-03

Demandes PCT entrant en phase nationale

[21] **3,173,772**
[13] A1

[51] **Int.Cl. B65G 1/02 (2006.01) B65G 1/04 (2006.01)**
[25] EN
[54] **AUTOMATED STORAGE AND RETRIEVAL SYSTEM**
[54] **SYSTEME AUTOMATISE DE STOCKAGE ET DE RECUPERATION**
[72] FAGERLAND, INGVAR, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2022-09-28
[86] 2021-03-25 (PCT/EP2021/057821)
[87] (WO2021/198036)
[30] NO (20200391) 2020-03-31

[21] **3,173,773**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01)**
[25] EN
[54] **INTRAVENOUS DEVICE ASSEMBLY WITH NEEDLE GUARD**
[54] **ENSEMBLE DISPOSITIF INTRAVEINEUX AVEC GAINE**
[72] KUNARDI, LINDA, SG
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-09-27
[86] 2021-03-23 (PCT/US2021/023642)
[87] (WO2021/202166)
[30] US (63/003,004) 2020-03-31
[30] US (17/208,941) 2021-03-22

[21] **3,173,774**
[13] A1

[51] **Int.Cl. B67D 3/00 (2006.01) B67D 3/04 (2006.01) C02F 1/00 (2006.01)**
[25] EN
[54] **WATER CONTAINER WITH MANUAL DISPENSING VALVE**
[54] **RECIPIENT D'EAU AVEC CLAPET DE DISTRIBUTION MANUELLE**
[72] VESTERGAARD-FRANDSEN, MIKKEL, US
[72] HILL, ALISON, US
[72] MADIER, JEAN-LUC, FR
[72] CORBINEAU, MATHIEU, CH
[72] SABOURIN, LIONEL, FR
[72] PASCAL, JEAN-MARC, FR
[71] LIFESTRAW SARL, CH
[85] 2022-09-28
[86] 2021-03-25 (PCT/EP2021/057840)
[87] (WO2021/198042)
[30] US (63/005,084) 2020-04-03

[21] **3,173,777**
[13] A1

[25] EN
[54] **INHIBITORS AND DEGRADERS OF PIP4K PROTEIN**
[54]
[72] GRAY, NATHANAEL S., US
[72] TENG, MINGXING, US
[72] WANG, ERIC, US
[72] JIANG, JIE, US
[72] ZHANG, TINGHU, US
[72] CANTLEY, LEWIS C., US
[72] FISCHER, ERIC S., US
[72] DONOVAN, KATHERINE A., US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[71] CORNELL UNIVERSITY, US
[71] GRAY, NATHANAEL S., US
[71] TENG, MINGXING, US
[71] WANG, ERIC, US
[71] JIANG, JIE, US
[71] ZHANG, TINGHU, US
[71] CANTLEY, LEWIS C., US
[71] FISCHER, ERIC S., US
[71] DONOVAN, KATHERINE A., US
[85] 2022-09-28
[86] 2022-05-19 (PCT/US2022/029966)
[87] (3173777)
[30] US (63/190,931) 2021-05-20
[30] US (63/318,114) 2022-03-09

[21] **3,173,780**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) C12N 5/0783 (2010.01) C12N 5/0789 (2010.01) C12N 15/113 (2010.01) A61K 35/17 (2015.01) C12N 5/00 (2006.01)**
[25] EN
[54] **STROMA-FREE NK CELL DIFFERENTIATION FROM HUMAN PLURIPOTENT STEM CELLS**
[54] **DIFFERENCIATION DE CELLULES NK SANS STROMA A PARTIR DE CELLULES SOUCHES PLURIPOTENTES HUMAINES**
[72] JING, RAN, US
[72] DALEY, GEORGE Q., US
[71] THE CHILDREN'S MEDICAL CENTER CORPORATION, US
[85] 2022-09-28
[86] 2022-03-04 (PCT/US2022/018991)
[87] (WO2022/187682)
[30] US (63/157,112) 2021-03-05

[21] **3,173,781**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01)**
[25] EN
[54] **CONTAINER HANDLING VEHICLE WITH CANTILEVER CONSTRUCTION AND AUTOMATED STORAGE AND RETRIEVAL SYSTEM COMPRISING A PLURALITY OF THE CONTAINER HANDLING VEHICLES**
[54] **VEHICULE DE MANUTENTION DE CONTENEURS AVEC CONSTRUCTION EN PORTE-A-FAUX ET SYSTEME DE STOCKAGE ET DE RECUPERATION AUTOMATISE COMPRENANT UNE PLURALITE DE VEHICULES DE MANUTENTION DE CONTENEUR**
[72] DJUVE, HEGGEBO JORGEN, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2022-09-28
[86] 2021-04-09 (PCT/EP2021/059312)
[87] (WO2021/209338)
[30] NO (20200467) 2020-04-16

[21] **3,173,786**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/337 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) A61P 37/02 (2006.01) C07D 305/14 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **METHOD FOR ALLOWING IMMUNE CELLS INFILTRATION IN TUMORS**
[54] **PROCEDE POUR PERMETTRE UNE INFILTRATION DE CELLULES IMMUNITAIRES DANS DES TUMEURS**
[72] FILION, MARIO, CA
[71] ALETHIA BIOTHERAPEUTICS INC., CA
[85] 2022-09-28
[86] 2021-04-27 (PCT/CA2021/050572)
[87] (3173786)

PCT Applications Entering the National Phase

[21] **3,173,792**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/48 (2006.01) A61K 9/52 (2006.01)**
[25] EN
[54] **GASTRIC RESIDENCE SYSTEMS FOR ADMINISTRATION OF RISPERIDONE**
[54] **SYSTEMES DE RESIDENCE GASTRIQUE POUR L'ADMINISTRATION DE RISPERIDONE**
[72] KANASTY, ROSEMARY, US
[72] GRANT, TYLER, US
[72] ALTREUTER, DAVID, US
[72] WEIGHT, ALISHA, US
[72] MOORTHY, SAUMYA, US
[72] SCHWARZ, MARLENE, US
[72] JING, JIE, US
[72] DUFOUR, DAVID C., US
[72] RYDE, ERIK ROBERT WALDEMAR, US
[72] BHISE, NUPURA, US
[72] SIMSES, CRAIG, US
[72] PEEKE, ERICK, US
[72] LAI, ERICA, US
[72] TAI, TAMMY, US
[72] MONTEZCO, JUAN JARAMILLO, US
[72] ANNESE, LUIGI, US
[72] HERZBERG, NUFAR, US
[72] HICKEY, MAGALI, US
[72] VILLANUEVA, DINARA, US
[71] LYNDRA, INC., US
[85] 2022-09-28
[86] 2022-01-19 (PCT/US2022/013027)
[87] (WO2022/159529)

[21] **3,173,793**
[13] A1

[51] **Int.Cl. A61K 35/00 (2006.01) A61K 35/76 (2015.01) A61K 38/04 (2006.01) A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **INFECTIOUS DISEASE ANTIGENS AND VACCINES**
[54] **ANTIGENES DE MALADIE INFECTIEUSE ET VACCINS**
[72] FERGUSON, ANDREW, US
[72] ROUSSEAU, RAPHAEL, US
[72] YELENSKY, ROMAN, US
[72] SUN, JAMES XIN, US
[72] DAVIS, MATTHEW JOSEPH, US
[72] JOOSS, KARIN, US
[72] RAPPAPORT, AMY RACHEL, US
[72] SCALLAN, CIARAN DANIEL, US
[72] GITLIN, LEONID, US
[72] PALMER, CHRISTINE DENISE, US
[71] GRITSTONE BIO, INC., US
[85] 2022-09-28
[86] 2021-04-05 (PCT/US2021/025828)
[87] (WO2021/203104)
[30] US (63/005,160) 2020-04-03

[21] **3,173,794**
[13] A1

[51] **Int.Cl. C08K 5/1545 (2006.01) C09D 11/17 (2014.01) C08L 25/14 (2006.01) C08L 33/04 (2006.01) C08L 39/06 (2006.01)**
[25] EN
[54] **SEMI-PERMANENT TATTOOS**
[54] **TATOUAGES SEMI-PERMANENTS**
[72] UM NLEND, INGRID, CA
[72] TYLER J, HANDLEY, CA
[71] INKBOX INK INC., CA
[85] 2022-09-28
[86] 2021-06-09 (PCT/CA2021/050790)
[87] (WO2021/248243)
[30] US (63/037,381) 2020-06-10

[21] **3,173,795**
[13] A1

[51] **Int.Cl. A61K 39/215 (2006.01) A61P 31/14 (2006.01) C12N 7/00 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **ATTENUATED POXVIRUS VECTOR BASED VACCINE FOR PROTECTION AGAINST COVID-19**
[54] **VACCIN A BASE DE VECTEUR DE POXVIRUS ATTENUÉ POUR LA PROTECTION CONTRE LA COVID-19**
[72] PROW, NATALIE, AU
[72] HOWLEY, PAUL, AU
[72] COOPER, TAMARA, AU
[72] HAYBALL, JOHN D., AU
[72] DIENER, KERRILYN R., AU
[72] LIU, LIANG, AU
[72] ELDI, PREETHI, AU
[71] SEMENTIS LIMITED, AU
[85] 2022-09-28
[86] 2021-03-29 (PCT/AU2021/050274)
[87] (WO2021/195694)
[30] US (63/003,012) 2020-03-31
[30] US (63/066,927) 2020-08-18

[21] **3,173,799**
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) C12N 9/12 (2006.01) G01N 33/573 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING CANCER**
[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DU CANCER**
[72] HARRISON, STEPHEN, SG
[72] BREW, CHRISTINE TAYLOR, SG
[72] WINTHER, MICHAEL DAVID, SG
[72] BANERJEE, SOURABH, SG
[72] YOST, SHAWN, SG
[71] ENGINE BIOSCIENCES PTE. LTD., SG
[85] 2022-09-28
[86] 2021-03-31 (PCT/US2021/025230)
[87] (WO2021/202780)
[30] US (63/003,736) 2020-04-01

Demandes PCT entrant en phase nationale

[21] **3,173,800**
[13] A1

[51] **Int.Cl. A61K 38/48 (2006.01) A61K 47/68 (2017.01)**

[25] EN

[54] **BINDING PROTEINS USEFUL AGAINST ACE2-TARGETED VIRUSES**

[54] **PROTEINES DE LIAISON UTILES CONTRE DES VIRUS CIBLANT ACE2**

[72] TIRUTHANI, KARTHIK, US

[72] LAI, SAMUEL, US

[72] CRUZ TERAN, CARLOS ALBERTO, US

[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US

[85] 2022-09-28

[86] 2021-04-05 (PCT/US2021/025787)

[87] (WO2021/203098)

[30] US (63/004,823) 2020-04-03

[21] **3,173,803**
[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 31/7115 (2006.01) A61K 39/00 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **CAPPING COMPOUNDS, COMPOSITIONS AND METHODS OF USE THEREOF**

[54] **COMPOSES DE COIFFAGE, COMPOSITIONS ET PROCEDES D'UTILISATION ASSOCIES**

[72] JOOSS, KARIN, US

[72] RAPPAPORT, AMY RACHEL, US

[72] SCALLAN, CIARAN DANIEL, US

[72] GITLIN, LEONID, US

[72] HONG, SUE-JEAN, US

[72] AKOPIE, ARVIN, US

[71] GRITSTONE BIO, INC., US

[85] 2022-09-28

[86] 2021-04-21 (PCT/US2021/028486)

[87] (WO2021/216776)

[30] US (63/013,456) 2020-04-21

[30] US (63/020,473) 2020-05-05

[21] **3,173,804**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **FUSED AZA-HETEROCYCLIC AMIDE COMPOUND AND USE THEREOF**

[54] **COMPOSE AMIDE AZA-HETEROCYCLIQUE CONDENSE ET SON UTILISATION**

[72] MI, GUORUI, CN

[72] ZHANG, YAN, CN

[72] JIANG, CHUNHUA, CN

[72] XU, YANXIA, CN

[72] FAN, LIXUE, CN

[72] ZHANG, XUEJIAO, CN

[72] QIN, YANAN, CN

[71] CSPC ZHONGQI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD, CN

[85] 2022-09-28

[86] 2021-05-14 (PCT/CN2021/093930)

[87] (WO2021/228248)

[30] CN (202010411386.0) 2020-05-15

[21] **3,173,806**
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) C12N 5/0735 (2010.01) C07K 14/46 (2006.01) C12N 15/11 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **MODIFIED SALMON WHICH PRODUCE STERILE OFFSPRING**

[54] **SAUMON MODIFIE PRODUISANT UNE DESCENDANCE STERILE**

[72] TROEDSSON-WARGELIUS, ANNA, NO

[72] EDVARDSEN, ROLF BRUDVIK, NO

[71] VESTLANDETS INNOVASJONSSELSKAP AS, NO

[85] 2022-09-28

[86] 2021-04-01 (PCT/EP2021/058629)

[87] (WO2021/198424)

[30] GB (2004870.8) 2020-04-02

[21] **3,173,810**
[13] A1

[25] EN

[54] **CLAUDIN 18.2 T CELL-ANTIGEN COUPLERS AND USES THEREOF**

[54] **COUPLEURS D'ANTIGENE DE LYMPHOCYTES T DE CLAUDINE 18.2 ET LEURS UTILISATIONS**

[72] BADER, ANDREAS, US

[72] HELSEN, CHRISTOPHER W., US

[72] IP, PHILBERT, US

[72] BENATAR, TANIA, US

[72] WANG, LING, CA

[71] TRIUMVIRA IMMUNOLOGICS USA, INC., US

[85] 2022-09-28

[86] 2022-06-01 (PCT/US2022/031836)

[87] (3173810)

[30] US (63/202,211) 2021-06-01

[30] US (63/263,809) 2021-11-09

[30] US (63/362,594) 2022-04-06

[21] **3,173,812**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 9/48 (2006.01) A61K 31/4439 (2006.01) A61P 1/00 (2006.01) A61P 37/06 (2006.01) A61P 43/00 (2006.01) C07D 401/12 (2006.01)**

[25] EN

[54] **SYSTEMIC FORMULATION OF A PYRIDINONE DERIVATE FOR COELIAC DISEASE**

[54] **FORMULATION SYSTEMIQUE D'UN DERIVE DE PYRIDINONE CONTRE LA MALADIE C?LIAQUE**

[72] GREINWALD, ROLAND, DE

[72] MOHR, WOLFGANG, DE

[72] TEWES, BERNHARD, DE

[72] WILHELM, RUDOLF, DE

[72] MOHRBACHER, RALF, DE

[71] DR. FALK PHARMA GMBH, DE

[85] 2022-09-28

[86] 2021-04-24 (PCT/EP2021/060763)

[87] (WO2021/214337)

[30] EP (20171440.9) 2020-04-24

[30] EP (20211713.1) 2020-12-03

PCT Applications Entering the National Phase

[21] **3,173,813**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01)**
[25] EN
[54] **PEDIATRIC CATHETER SYSTEM**
[54] **SYSTEME DE CATHETER PEDIATRIQUE**
[72] GAVADE, PRAVIN BHAGAVANT K., IN
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-09-28
[86] 2021-03-23 (PCT/US2021/023641)
[87] (WO2021/202165)
[30] US (63/002,938) 2020-03-31
[30] US (17/207,463) 2021-03-19

[21] **3,173,815**
[13] A1

[51] **Int.Cl. F28D 9/00 (2006.01)**
[25] EN
[54] **A HEAT EXCHANGER COMPRISING A PLATE PACKAGE AND A HOLLOW MANIFOLD**
[54] **ECHANGEUR DE CHALEUR COMPRENANT UN BLOC DE PLAQUES ET UN COLLECTEUR CREUX**
[72] NYANDER, ANDERS, SE
[72] OHLIN, JOAKIM, SE
[71] ALFA LAVAL CORPORATE AB, SE
[85] 2022-09-28
[86] 2021-03-30 (PCT/EP2021/058225)
[87] (WO2021/213784)
[30] EP (20170984.7) 2020-04-23

[21] **3,173,816**
[13] A1

[51] **Int.Cl. B24D 15/08 (2006.01)**
[25] FR
[54] **SHARPENING SHEATH ADAPTED TO RECEIVE A KNIFE, AND COMBINATION OF SUCH A SHEATH AND A KNIFE**
[54] **FOURREAU AIGUISEUR ADAPTE POUR RECEVOIR UN COUTEAU ET COMBINAISON D'UN TEL FOURREAU ET D'UN COUTEAU**
[72] PLICHON, STEPHANE, FR
[72] SUCHET, STEPHANE, FR
[71] SEB S.A., FR
[85] 2022-09-28
[86] 2021-03-05 (PCT/EP2021/055681)
[87] (WO2021/209194)
[30] FR (FR2003708) 2020-04-14

[21] **3,173,819**
[13] A1

[51] **Int.Cl. A61K 31/495 (2006.01) A61K 31/4965 (2006.01) A61K 31/497 (2006.01) C07D 239/42 (2006.01) C07D 403/02 (2006.01) C07D 403/04 (2006.01)**
[25] EN
[54] **SMALL MOLECULE DEGRADERS OF PHOSPHATIDYLINOSITOL-5-PHOSPHATE 4-KINASE TYPE 2 AND USES THEREOF**
[54] **AGENTS DE DEGRADATION A PETITES MOLECULES DE PHOSPHATIDYLINOSITOL-5-PHOSPHATE 4-KINASE DE TYPE 2 ET LEURS UTILISATIONS**
[72] GRAY, NATHANAEL S., US
[72] ZHANG, TINGHU, US
[72] CANTLEY, LEWIS C., US
[72] SIVAKUMAREN, CARMEN, US
[72] MANZ, THERESA, US
[72] WANG, ERIC, US
[72] JI, WENZHI, US
[72] FISCHER, ERIC S., US
[72] DONOVAN, KATHERINE, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[71] CORNELL UNIVERSITY, US
[71] GRAY, NATHANAEL S., US
[71] ZHANG, TINGHU, US
[71] CANTLEY, LEWIS C., US
[71] SIVAKUMAREN, CARMEN, US
[71] MANZ, THERESA, US
[71] WANG, ERIC, US
[71] JI, WENZHI, US
[71] FISCHER, ERIC S., US
[71] DONOVAN, KATHERINE, US
[85] 2022-09-28
[86] 2021-12-22 (PCT/US2021/064880)
[87] (WO2022/140554)
[30] US (63/130,150) 2020-12-23
[30] US (63/273,388) 2021-10-29

[21] **3,173,820**
[13] A1

[51] **Int.Cl. A61P 19/08 (2006.01) C12N 9/16 (2006.01)**
[25] EN
[54] **METHOD OF CONTROLLING TOTAL SIALIC ACID CONTENT (TSAC) DURING MANUFACTURING OF ALKALINE PHOSPHATASE**
[54] **PROCEDE DE REGULATION DE LA TENEUR TOTALE EN ACIDE SIALIQUE (TSAC) PENDANT LA FABRICATION DE PHOSPHATASE ALCALINE**
[72] DEWITT, MEGHAN, US
[72] SUI, SIGUANG, US
[72] GODAWAT, RAHUL, US
[72] BERENDES, SARAH, US
[71] ALEXION PHARMACEUTICALS, INC., US
[85] 2022-09-28
[86] 2021-10-21 (PCT/US2021/055991)
[87] (WO2022/087229)
[30] US (63/105,052) 2020-10-23

[21] **3,173,822**
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01) G01N 33/68 (2006.01)**
[25] FR
[54] **METHOD FOR DETERMINING THE RISK OF INCIDENCE OF A CARE-ASSOCIATED INFECTION IN A PATIENT**
[54] **PROCEDE POUR DETERMINER LE RISQUE DE SURVENUE D'UNE INFECTION ASSOCIEE AUX SOINS CHEZ UN PATIENT**
[72] MALLET, FRANCOIS, FR
[72] MONNERET, GUILLAUME, FR
[72] MOUCADEL, VIRGINIE, FR
[72] PACHOT, ALEXANDRE, FR
[72] PERONNET, ESTELLE, FR
[72] TEXTORIS, JULIEN, FR
[72] VENET, FABIENNE, FR
[72] RIMMELE, THOMAS, FR
[71] BIOMERIEUX, FR
[71] BIOASTER, FR
[71] HOSPICES CIVILS DE LYON, FR
[85] 2022-09-28
[86] 2021-04-08 (PCT/FR2021/050615)
[87] (WO2021/205121)
[30] FR (FR2003591) 2020-04-09

Demandes PCT entrant en phase nationale

[21] **3,173,823**
[13] A1

[51] **Int.Cl. A61M 39/22 (2006.01)**
[25] EN
[54] **PRIMER FOR INTRAVENOUS CATHETER SYSTEMS**
[54] **AMORCE POUR SYSTEMES DE CATHETER INTRAVEINEUX**
[72] YONG, ZHEE MIN JIMMY, SG
[72] OOI, CHUN KEAT, IE
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-09-28
[86] 2021-03-23 (PCT/US2021/023638)
[87] (WO2021/202164)
[30] US (63/002,866) 2020-03-31
[30] US (17/207,457) 2021-03-19

[21] **3,173,824**
[13] A1

[51] **Int.Cl. A24F 40/90 (2020.01) H02J 7/00 (2006.01) H02J 7/34 (2006.01)**
[25] EN
[54] **CHARGING APPARATUS FOR USE WITH A NON-COMBUSTIBLE AEROSOL PROVISION DEVICE**
[54] **APPAREIL DE CHARGE DESTINE A ETRE UTILISE AVEC UN DISPOSITIF DE FOURNITURE D'AEROSOL NON COMBUSTIBLE**
[72] LEAH, THOMAS, GB
[72] TAYLOR, BENJAMIN, GB
[72] WARREN, LUKE, GB
[72] HODGSON, MATTHEW, GB
[72] VINTOLA, TOMI, GB
[72] CAMPBELL, JEREMY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-09-28
[86] 2021-08-17 (PCT/EP2021/072862)
[87] (WO2022/038154)
[30] GB (2012842.7) 2020-08-17

[21] **3,173,829**
[13] A1

[51] **Int.Cl. B24D 15/08 (2006.01)**
[25] FR
[54] **SHARPENING SHEATH ADAPTED TO RECEIVE A KNIFE, AND COMBINATION OF SUCH A SHEATH AND A KNIFE**
[54] **FOURREAU AIGUISEUR ADAPTE A RECEVOIR UN COUTEAU ET COMBINAISON D'UN TEL FOURREAU ET D'UN COUTEAU**
[72] PLICHON, STEPHANE, FR
[71] SEB S.A., FR
[85] 2022-09-28
[86] 2021-03-05 (PCT/EP2021/055682)
[87] (WO2021/209195)
[30] FR (FR2003709) 2020-04-14

[21] **3,173,887**
[13] A1

[51] **Int.Cl. G06F 1/20 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **COOLING SYSTEM FOR THE LIQUID IMMERSION COOLING OF ELECTRONIC COMPONENTS**
[54] **SYSTEME DE REFROIDISSEMENT POUR LE REFROIDISSEMENT EN IMMERSION LIQUIDE DE COMPOSANTS ELECTRONIQUES**
[72] GOTTERBARM, ACHIM, DE
[72] KNAB, MANFRED, DE
[72] DIETL, JOCHEN, DE
[72] GAIBLER, HARALD, DE
[71] WIELAND-WERKE AG, DE
[85] 2022-09-28
[86] 2021-03-30 (PCT/EP2021/000031)
[87] (WO2021/213697)
[30] DE (10 2020 002 530.7) 2020-04-25

[21] **3,174,241**
[13] A1

[51] **Int.Cl. F04D 29/041 (2006.01) F04D 1/06 (2006.01) F04D 29/043 (2006.01) F04D 29/22 (2006.01)**
[25] EN
[54] **THRUST RUNNER FOR ABRASION RESISTANT BEARING OF CENTRIFUGAL PUMP**
[54] **ROUE DE POUSSEE POUR PALIER RESISTANT A L'ABRASION DE POMPE CENTRIFUGE**
[72] YE, ZHENG, US
[72] MARTINEZ, IGNACIO, US
[72] RUTTER, RISA, US
[72] PAQUETTE, MARK, US
[71] BAKER HUGHES OILFIELD OPERATIONS, LLC, US
[85] 2022-09-29
[86] 2021-05-06 (PCT/US2021/031052)
[87] (WO2021/226320)
[30] US (63/020,913) 2020-05-06
[30] US (17/307,934) 2021-05-04

[21] **3,174,292**
[13] A1

[51] **Int.Cl. 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)**
[25] EN
[54] **ELECTRICALLY INSULATED BOOM MOUNTABLE TEMPORARY CONDUCTOR GUARD STRUCTURE**
[54] **STRUCTURE DE PROTECTION DE CONDUCTEUR TEMPORAIRE POUVANT ETRE MONTEE SUR UNE FLECHE ISOLEE ELECTRIQUEMENT**
[72] O'CONNELL, DANIEL NEIL, CA
[72] JODOIN, RAYMOND HENRY, CA
[72] HARVEY, BENJAMIN JAMES, US
[71] QUANTA ASSOCIATES, L.P., US
[85] 2022-09-29
[86] 2022-01-27 (PCT/US2022/014041)
[87] (WO2022/164992)
[30] CA (3107267) 2021-01-27
[30] US (63/142,124) 2021-01-27

PCT Applications Entering the National Phase

[21] **3,175,608**
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/525 (2006.01)**
[25] EN
[54] **TREATMENT OF CONDITIONS ASSOCIATED WITH THYROID HORMONE**
[54] **TRAITEMENT D'ETATS ASSOCIES A L'HORMONE THYROIDIENNE**
[72] SCOTT, LINZY O., III, US
[71] SCOTT, LINZY O., III, US
[85] 2022-10-14
[86] 2021-04-22 (PCT/US2021/028675)
[87] (WO2021/216896)
[30] US (63/013,960) 2020-04-22
[30] US (63/088,523) 2020-10-07
[30] US (63/135,118) 2021-01-08

[21] **3,175,812**
[13] A1

[51] **Int.Cl. F23D 11/40 (2006.01) F23M 9/10 (2006.01)**
[25] EN
[54] **DEVICE FOR HEATING A MEDIUM**
[54] **DISPOSITIF DESTINE A CHAUFFER UN MILIEU**
[72] ARMBRUSTER, UWE, DE
[71] TRUMA GERATETECHNIK GMBH & CO. KG, DE
[85] 2022-10-17
[86] 2021-07-14 (PCT/EP2021/000079)
[87] (WO2022/078619)
[30] DE (10 2020 006 264.4) 2020-10-12

[21] **3,176,129**
[13] A1

[51] **Int.Cl. G06F 15/16 (2006.01)**
[25] EN
[54] **PRIORITY MEDIA CONTENT PROTECTION DE CONTENU MULTIMEDIA**
[72] TAYLOR, RYAN, US
[72] DAWSON, JOSEPH, US
[71] SONOS, INC., US
[85] 2022-10-19
[86] 2021-04-20 (PCT/US2021/028205)
[87] (WO2021/216582)
[30] US (63/013,326) 2020-04-21

[21] **3,176,351**
[13] A1

[51] **Int.Cl. B60H 1/00 (2006.01)**
[25] EN
[54] **AIR-CONDITIONING SYSTEM**
[54] **SYSTEME DE CLIMATISATION**
[72] PRESLER, EUGEN, DE
[71] TRUMA GERATETECHNIK GMBH & CO. KG, DE
[85] 2022-10-20
[86] 2021-04-07 (PCT/EP2021/000034)
[87] (WO2021/228424)
[30] DE (10 2020 002 860.8) 2020-05-13

[21] **3,176,378**
[13] A1

[51] **Int.Cl. B60H 1/00 (2006.01) B60H 1/32 (2006.01)**
[25] EN
[54] **AIR-CONDITIONING SYSTEM**
[54] **SYSTEME DE CLIMATISATION**
[72] PRESLER, EUGEN, DE
[71] TRUMA GERATETECHNIK GMBH & CO. KG, DE
[85] 2022-10-20
[86] 2021-04-07 (PCT/EP2021/000037)
[87] (WO2021/228427)
[30] DE (10 2020 002 861.6) 2020-05-13

[21] **3,176,500**
[13] A1

[51] **Int.Cl. E04B 1/94 (2006.01) E04B 1/80 (2006.01)**
[25] EN
[54] **MELTING-FUSE DESCRIPTION**
[54] **DESCRIPTION DE FUSIBLE A FUSION**
[72] BERLEE, ANTHONIE BERNARDUS, NL
[71] TCHUPP GMBH, CH
[85] 2022-10-21
[86] 2021-04-22 (PCT/NL2021/050265)
[87] (WO2021/215924)
[30] NL (1043636) 2020-04-23

[21] **3,177,006**
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01) A61K 48/00 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT OF CYSTIC FIBROSIS**
[54] **COMPOSITIONS ET PROCEDES POUR LE TRAITEMENT DE LA FIBROSE KYSTIQUE**
[72] MCCRAY JR., PAUL B., US
[72] SINN, PATRICK, US
[72] LOZA, LAURA MARQUEZ, US
[71] UNIVERSITY, OF IOWA RESEARCH FOUNDATION, US
[85] 2022-10-26
[86] 2021-04-27 (PCT/US2021/029365)
[87] (WO2021/222222)
[30] US (63/015,958) 2020-04-27
[30] US (63/134,810) 2021-01-07

[21] **3,177,161**
[13] A1

[51] **Int.Cl. G01S 13/931 (2020.01)**
[25] EN
[54] **OBJECT DETECTION AND TRACKING FOR AUTOMATED OPERATION OF VEHICLES AND MACHINERY**
[54] **DETECTION ET SUIVI D'OBJET POUR FONCTIONNEMENT AUTOMATISE DE VEHICULES ET D'UNE MACHINE**
[72] RAMAKRISHNAN, RAHUL, US
[72] ALIBASIC, AZIZ, US
[72] ANTONY, THOMAS, US
[72] PAGA, VENKATA RAMA KARTHIK, US
[71] RAVEN INDUSTRIES, INC., US
[85] 2022-10-27
[86] 2021-04-27 (PCT/US2021/029437)
[87] (WO2021/222279)
[30] US (63/016,738) 2020-04-28

Demandes PCT entrant en phase nationale

[21] **3,177,290**
[13] A1

[51] **Int.Cl. A61B 5/097 (2006.01) G01N 33/497 (2006.01)**
[25] EN
[54] **DETECTION OF VIRUSES IN FACEMASKS**
[54] **DETECTION DE VIRUS DANS DES MASQUES FACIAUX**
[72] SIMPLOT, SCOTT, US
[72] MITTENESS, BRADLEY M., US
[71] CAMAS INCORPORATED, US
[85] 2022-10-28
[86] 2021-04-27 (PCT/US2021/029384)
[87] (WO2021/222237)
[30] US (63/018,127) 2020-04-30

[21] **3,180,773**
[13] A1

[51] **Int.Cl. A01G 9/029 (2018.01) A01G 24/50 (2018.01) A01G 13/02 (2006.01)**
[25] EN
[54] **PLANTING APPARATUS AND METHOD FOR PLANTING**
[54] **APPAREIL DE PLANTATION ET PROCEDE DE PLANTATION**
[72] HOBERT, TOBIAS, DE
[72] RIEDEL, JURGEN, DE
[71] GREENECONO UG, DE
[85] 2022-10-07
[86] 2021-04-01 (PCT/EP2021/058679)
[87] (WO2021/204691)
[30] DE (10 2020 109 654.2) 2020-04-07

[21] **3,181,008**
[13] A1

[51] **Int.Cl. A61L 9/00 (2006.01) A61L 9/16 (2006.01) B01D 53/14 (2006.01) B01D 53/18 (2006.01) G21F 9/02 (2006.01)**
[25] EN
[54] **MIXING NOZZLE AND CONTAMINATED GAS PURIFICATION DEVICE USING MIXING NOZZLE**
[54] **BUSE DE MELANGE ET DISPOSITIF DE PURIFICATION DE GAZ POLLUE UTILISANT UNE BUSE DE MELANGE**
[72] NARABAYASHI, TADASHI, JP
[72] KIKURA, HIROSHIGE, JP
[72] TAKAHASHI, HIDEHARU, JP
[72] ARAOKA, KATSUMASA, JP
[72] ENDO, KOJI, JP
[72] YOSHII, TOMOHIKO, JP
[71] TOKYO INSTITUTE OF TECHNOLOGY, JP
[71] RASA INDUSTRIES, LTD., JP
[71] KIMURA CHEMICAL PLANTS CO., LTD., JP
[85] 2022-10-21
[86] 2021-03-26 (PCT/JP2021/012811)
[87] (WO2021/215191)
[30] JP (2020-075710) 2020-04-21

[21] **3,181,042**
[13] A1

[51] **Int.Cl. B01D 61/02 (2006.01) B01D 61/58 (2006.01) B01D 69/02 (2006.01) B01D 69/10 (2006.01) B01D 69/12 (2006.01) B01D 71/56 (2006.01) C22B 3/06 (2006.01) C22B 3/22 (2006.01) C22B 7/00 (2006.01) C22B 7/04 (2006.01) C22B 23/00 (2006.01) C22B 26/12 (2006.01) C22B 47/00 (2006.01) H01M 10/54 (2006.01)**
[25] EN
[54] **METHOD FOR RECOVERING RARE METAL SALT**
[54] **PROCEDE DE RECUPERATION DE SEL DE METAL RARE**
[72] YOSHIZAKI, TOMOYA, JP
[72] SOYA, TAKANORI, JP
[72] KOIWA, MASAKAZU, JP
[72] HANADA, SHIGEHISA, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2022-10-21
[86] 2021-04-21 (PCT/JP2021/016220)
[87] (WO2021/215484)
[30] JP (2020-075283) 2020-04-21
[30] JP (2020-075284) 2020-04-21
[30] JP (2020-094341) 2020-05-29
[30] JP (2021-056860) 2021-03-30
[30] JP (2021-056865) 2021-03-30

[21] **3,181,045**
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/445 (2006.01) A61K 47/20 (2006.01) A61K 47/22 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **PERCUTANEOUS ABSORPTION PREPARATION COMPRISING DONEPEZIL WITH IMPROVED STABILITY**
[54] **PREPARATION A ABSORPTION PERCUTANEE COMPRENANT DU DONEPEZIL A STABILITE AMELIOREE**
[72] JANG, SUN-WOO, KR
[72] SHIN, CHANG-YELL, KR
[72] KIM, HAE-SUN, KR
[72] CHA, KWANG-HO, KR
[72] KIM, HYUN-JUNG, KR
[72] HYUN, SANG-MIN, KR
[72] GOTO, MASAOKI, JP
[71] DONG-A ST CO., LTD, KR
[71] KM TRANSDERM LTD., JP
[85] 2022-10-21
[86] 2021-05-12 (PCT/KR2021/005930)
[87] (WO2021/230647)
[30] KR (10-2020-0057402) 2020-05-13

[21] **3,181,048**
[13] A1

[51] **Int.Cl. C12Q 1/00 (2006.01) A61K 47/10 (2017.01) A61P 35/00 (2006.01) C12Q 1/37 (2006.01)**
[25] EN
[54] **CANCER-RELATED ACTIVITY SENSORS**
[54] **CAPTEURS D'ACTIVITE ASSOCIES AU CANCER**
[72] BOWEN, JAMES, US
[72] TOUTI, FAYCAL, US
[71] GLYMPSE BIO, INC., US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028794)
[87] (WO2021/216968)
[30] US (63/015,340) 2020-04-24

PCT Applications Entering the National Phase

[21] **3,181,049**
[13] A1

[51] **Int.Cl. C12Q 1/00 (2006.01)**
[25] EN
[54] **MULTI-FACTOR ACTIVITY MONITORING**
[54] **CONTROLE D'ACTIVITE MULTIFACTORIEL**

[72] BOWEN, JAMES, US
[72] TOUTI, FAYCAL, US
[71] GLYMPSE BIO, INC., US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028795)
[87] (WO2021/216969)
[30] US (63/015,342) 2020-04-24

[21] **3,181,100**
[13] A1

[51] **Int.Cl. B09C 1/06 (2006.01) H01J 37/32 (2006.01) H05B 6/64 (2006.01) H05H 1/00 (2006.01) H05H 1/46 (2006.01)**

[25] EN
[54] **PFAS PROCESSING**
[54] **TRAITEMENT DE PFAS**

[72] MCLEAN, DAVID WILLIAM, AU
[71] AMT REMEDIATION PTY LTD, AU
[85] 2022-07-14
[86] 2021-01-18 (PCT/AU2021/000005)
[87] (WO2021/142511)

[21] **3,181,164**
[13] A1

[51] **Int.Cl. A61M 39/02 (2006.01) C12Q 1/6886 (2018.01) C12Q 1/6897 (2018.01) C12N 5/00 (2006.01) G01N 33/574 (2006.01) G05B 19/02 (2006.01)**

[25] EN
[54] **ACTIVITY SENSOR CONTROLS**
[54] **TEMOINS DE CAPTEURS D'ACTIVITE**

[72] BOWEN, JAMES, US
[72] TOUTI, FAYCAL, US
[71] GLYMPSE BIO, INC., US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028797)
[87] (WO2021/216971)
[30] US (63/015,341) 2020-04-24

[21] **3,181,165**
[13] A1

[51] **Int.Cl. A61K 31/015 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN
[54] **NURR1 RECEPTOR MODULATORS AND USES THEREOF**
[54] **MODULATEURS DU RECEPTEUR NURR1 ET LEURS UTILISATIONS**

[72] ENGLAND, PAMELA M., US
[72] JACOBSON, MATTHEW P., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028799)
[87] (WO2021/216973)
[30] US (63/015,302) 2020-04-24

[21] **3,181,166**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) C07K 14/195 (2006.01) C07K 14/33 (2006.01)**

[25] EN
[54] **TARGETING THE PALMOTYLATION/DEPALMOTYLATION CYCLE TO TREAT INFLAMMATORY DISEASES**
[54] **CIBLAGE DU CYCLE DE PALMITOYLATION/DEPALMITOYLATION POUR TRAITER DES MALADIES INFLAMMATOIRES**

[72] LIN, HENING, US
[72] ZHANG, MINGMING, US
[72] YU, TAO, US
[71] CORNELL UNIVERSITY, US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028811)
[87] (WO2021/216980)
[30] US (63/014,735) 2020-04-24

[21] **3,181,167**
[13] A1

[51] **Int.Cl. G08B 13/196 (2006.01)**

[25] EN
[54] **ENHANCED PROPERTY ACCESS WITH VIDEO ANALYTICS**
[54] **ACCES A DES PROPRIETES AMELIOREES A L'AIDE D'ANALYTIQUE VIDEO**

[72] NAM, KI HA, US
[71] ALARM.COM INCORPORATED, US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028856)
[87] (WO2021/217011)
[30] US (63/014,994) 2020-04-24

[21] **3,181,168**
[13] A1

[51] **Int.Cl. A61N 1/36 (2006.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR ANALYZING A CENTRAL NERVOUS SYSTEM BASED ON BRAINSTEM STRUCTURAL CHARACTERISTICS**
[54] **PROCEDES ET SYSTEMES D'ANALYSE D'UN SYSTEME NERVEUX CENTRAL SUR LA BASE DES CARACTERISTIQUES STRUCTURELLES DU TRONC CEREBRAL**

[72] OKUDA, DARIN T., US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028898)
[87] (WO2021/222029)
[30] US (63/018,103) 2020-04-30

[21] **3,181,169**
[13] A1

[51] **Int.Cl. A61B 90/00 (2016.01) A61F 2/12 (2006.01) A61M 27/00 (2006.01)**

[25] EN
[54] **DRAIN-COMPATIBLE TISSUE EXPANSION DEVICE**
[54] **DISPOSITIF D'EXPANSION TISSULAIRE COMPATIBLE AVEC UN DRAIN**

[72] SCHUESSLER, DAVID J., US
[72] NUTI, GINA M., US
[71] ALLERGAN, INC., US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028993)
[87] (WO2021/217099)
[30] US (63/015,403) 2020-04-24

Demandes PCT entrant en phase nationale

[21] **3,181,170**
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01) A61K 47/62 (2017.01) A61K 9/14 (2006.01) A61K 31/7105 (2006.01) A61K 38/46 (2006.01) A61P 35/00 (2006.01) C12N 9/22 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR TREATING CANCER WITH KRAS MUTATIONS AND USES THEREOF**

[54] **COMPOSITIONS DE TRAITEMENT DU CANCER AVEC DES MUTATIONS DE KRAS MUTATIONS ET LEURS UTILISATIONS**

[72] DESAI, NEIL P., US
[72] DIVITA, GILLES, FR
[71] AADIGEN, LLC, US
[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028995)
[87] (WO2021/217100)
[30] FR (FR2004126) 2020-04-24

[21] **3,181,171**
[13] A1

[51] **Int.Cl. A61K 47/59 (2017.01) A61P 29/00 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **DENDRIMER COMPOSITIONS AND METHODS FOR TREATMENT OF SEVERE ACUTE RESPIRATORY DISTRESS SYNDROME**

[54] **COMPOSITIONS DE DENDRIMERES ET METHODES DE TRAITEMENT DU SYNDROME DE DETRESSE RESPIRATOIRE AIGUE GRAVE**

[72] CLELAND, JEFFREY, US
[72] RANGARAMANUJAM, KANNAN, US
[72] KANNAN, SUJATHA, US
[72] ZAVERI, JAY, US
[71] ASHVATTHA THERAPEUTICS, INC., US
[85] 2022-10-24
[86] 2021-04-26 (PCT/US2021/029139)
[87] (WO2021/217131)
[30] US (63/015,131) 2020-04-24

[21] **3,181,172**
[13] A1

[51] **Int.Cl. H01M 4/86 (2006.01) H01M 8/1004 (2016.01) H01M 4/88 (2006.01)**

[25] EN

[54] **POLYMER COATING PROCESS FOR ELECTRODE ASSEMBLIES INCORPORATING ION EXCHANGE MATERIALS**

[54] **PROCEDE DE REVETEMENT POLYMERE POUR ENSEMBLES ELECTRODES INCORPORANT DES MATERIAUX ECHANGEURS D'IONS**

[72] KHOKHLOV, PAVEL, US
[72] GORER, ALEXANDER, US
[71] ZELOS ENERGY LTD., US
[85] 2022-10-24
[86] 2021-04-28 (PCT/US2021/029620)
[87] (WO2021/222393)
[30] US (63/016,827) 2020-04-28

[21] **3,181,173**
[13] A1

[51] **Int.Cl. A61K 33/244 (2019.01) A61K 33/245 (2019.01) A61K 6/17 (2020.01) A61K 6/54 (2020.01) A61K 6/62 (2020.01) A61K 6/71 (2020.01) A61K 6/887 (2020.01) A61K 33/08 (2006.01) A61K 33/16 (2006.01) A61K 33/24 (2019.01)**

[25] EN

[54] **A HIGHLY FLOWABLE PREPOLYMER COMPOSITION OF HIGH RADIOPACITY ALLOWING FOR HIGH DEPTH PHOTOPOLYMERIZATION**

[54] **COMPOSITION DE PREPOLYMERE HAUTEMENT FLUIDE A RADIO-OPACITE ELEVEE PERMETTANT UNE PHOTOPOLYMERISATION A HAUTE PROFONDEUR**

[72] BISPINGHOFF, MARK, CH
[72] SCHMOCKER, ANDREAS, CH
[72] JOHNSON, AARON, CH
[71] LUMENDO AG, CH
[85] 2022-10-25
[86] 2021-05-11 (PCT/EP2021/062553)
[87] (WO2022/017658)
[30] EP (20186714.0) 2020-07-20

[21] **3,181,174**
[13] A1

[51] **Int.Cl. B65D 43/02 (2006.01)**

[25] EN

[54] **CONTAINER CLOSURE DEVICE AND METHOD OF OPERATING THE SAME**

[54] **DISPOSITIF DE FERMETURE DE RECIPIENT ET SON PROCEDE DE FONCTIONNEMENT**

[72] CRAWFORD, GORDON, US
[72] RICHARDSON, JOHN, US
[71] ATKINS NUCLEAR SECURED HOLDINGS CORPORATION, US
[85] 2022-10-24
[86] 2021-04-28 (PCT/US2021/029701)
[87] (WO2021/222444)
[30] US (63/016,652) 2020-04-28

[21] **3,181,175**
[13] A1

[51] **Int.Cl. A23L 27/20 (2016.01) A61K 8/30 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **MINT FLAVOR COMPOSITIONS**

[54] **COMPOSITIONS D'AROME DE MENTHE**

[72] MORGAN, GEORGE KAVIN, III, US
[72] SANKER, LOWELL ALAN, US
[72] ANDERSON, DAWN LOUISE, US
[72] HOKE, STEVEN HAMILTON, II, US
[72] LEI, QINGXIN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-10-24
[86] 2021-04-29 (PCT/US2021/029775)
[87] (WO2021/222488)
[30] US (63/018,520) 2020-05-01
[30] US (63/018,521) 2020-05-01
[30] US (63/018,522) 2020-05-01
[30] US (63/018,523) 2020-05-01

PCT Applications Entering the National Phase

[21] **3,181,176**
[13] A1

[51] **Int.Cl. G01N 33/564 (2006.01) C07K 1/04 (2006.01) C07K 14/705 (2006.01) C07K 16/18 (2006.01) C07K 17/00 (2006.01) C07K 17/14 (2006.01) C07K 19/00 (2006.01) C12N 11/00 (2006.01) C12N 11/14 (2006.01) C40B 50/18 (2006.01)**

[25] EN

[54] **RAPID AND FACILE ANTIBODY DETECTION USING COVALENTLY IMMOBILIZED SELF-ASSEMBLED POLYPEPTIDES**

[54] **DETECTION RAPIDE ET FACILE D'ANTICORPS A L'AIDE DE POLYPEPTIDES AUTO-ASSEMBLES IMMOBILISES DE MANIERE COVALENTE**

[72] NI, HEYU, CA
[72] NEVES, MIGUEL, PT
[71] CCOA THERAPEUTICS INC., CA
[85] 2022-10-25
[86] 2021-04-27 (PCT/CA2021/050574)
[87] (WO2021/217252)
[30] US (63/015,810) 2020-04-27

[21] **3,181,177**
[13] A1

[51] **Int.Cl. A01N 25/00 (2006.01) A01N 59/16 (2006.01) A61L 2/16 (2006.01) A61L 2/26 (2006.01)**

[25] EN

[54] **DISPENSABLE NANOPARTICLE BASED COMPOSITION FOR DISINFECTION**

[54] **COMPOSITION A BASE DE NANOPARTICULES DISTRIBUABLES POUR DESINFECTION**

[72] SEAL, SUDIPTA, US
[72] NEAL, CRAIG, US
[72] DRAKE, CHRISTINA HARTSELL, US
[71] UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION, INC., US
[71] KISMET TECHNOLOGIES LLC, US
[85] 2022-10-24
[86] 2021-04-30 (PCT/US2021/030221)
[87] (WO2021/222779)
[30] US (63/018,174) 2020-04-30

[21] **3,181,178**
[13] A1

[51] **Int.Cl. C12Q 1/6883 (2018.01)**

[25] EN

[54] **KELCH DOMAIN CONTAINING 7B (KLHDC7B) VARIANTS AND USES THEREOF**

[54] **VARIANTS DE 7B A DOMAINE KELCH (KLHDC7B) ET LEURS UTILISATIONS**

[72] PRAVEEN, KAVITA, US
[72] COPPOLA, GIOVANNI, US
[72] FERREIRA, MANUEL ALLEN REVEZ, US
[72] GURSKI, LAUREN, US
[72] BARAS, ARIS, US
[72] DRUMMOND SAMUELSON, MEGHAN, US
[72] ABECASIS, GONCALO, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-10-24
[86] 2021-05-04 (PCT/US2021/030669)
[87] (WO2021/226097)
[30] US (63/020,746) 2020-05-06
[30] US (63/087,245) 2020-10-04

[21] **3,181,179**
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **DOUBLE-MULTIPLEX ASSAY FOR MULTIPLE IMMUNOGLOBULIN ISOTYPES**

[54] **DOSAGE A DOUBLE MULTIPLEX POUR DE MULTIPLES ISOTYPES D'IMMUNOGLOBULINES**

[72] CHEN, GE, US
[72] SHABAHANG, SHAHROKH, US
[72] LIU, HONG, US
[71] ADITXT, INC., US
[85] 2022-10-24
[86] 2021-05-18 (PCT/US2021/033027)
[87] (WO2021/236688)
[30] US (63/027,102) 2020-05-19
[30] US (63/117,400) 2020-11-23

[21] **3,181,181**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**

[25] EN

[54] **DIABETES PREDICTION USING GLUCOSE MEASUREMENTS AND MACHINE LEARNING**

[54] **PREDICTION DU DIABETE A L'AIDE DE MESURES DE GLUCOSE ET APPRENTISSAGE MACHINE**

[72] FRANK, SPENCER, US
[72] PRICE, DAVID, US
[72] STROYECK, CHUCK, US
[72] HAMES, KAZANNA CALAIS, US
[71] DEXCOM, INC., US
[85] 2022-10-24
[86] 2021-06-18 (PCT/US2021/038047)
[87] (WO2022/005772)
[30] US (16/917,421) 2020-06-30

[21] **3,181,182**
[13] A1

[51] **Int.Cl. C09D 11/50 (2014.01) B41M 1/26 (2006.01) B41M 3/00 (2006.01) B41M 99/00 (2006.01) C09B 9/00 (2006.01) C09B 62/00 (2006.01) C09K 9/02 (2006.01)**

[25] EN

[54] **SCENTED COLOR-CHANGING SYSTEM**

[54] **SYSTEME PARFUME DE CHANGEMENT DE COULEUR**

[72] DEVASSINE, MICKAEL, US
[72] O'HALLORAN, DAVID, US
[72] DOZIER, JOSH M., US
[71] AKI, INC., US
[85] 2022-10-24
[86] 2021-05-13 (PCT/US2021/070546)
[87] (WO2021/232060)
[30] US (63/024,217) 2020-05-13

Demandes PCT entrant en phase nationale

[21] **3,181,183**
[13] A1

[51] **Int.Cl. A45D 44/00 (2006.01) A45D 37/00 (2006.01) B65D 65/38 (2006.01) B65D 75/30 (2006.01) B65D 75/58 (2006.01)**

[25] EN

[54] **SAMPLER FOR COSMETIC OR FRAGRANCE POWDERY MATERIAL AND METHOD**

[54] **CONTENANT A ECHANTILLON POUR MATERIAU EN POUDRE DE PRODUIT COSMETIQUE OU DE PARFUM ET PROCEDE**

[72] DEVASSINE, MICKAEL, US

[72] DEVASSINE, HRAZHYNA, US

[71] AKI, INC., US

[85] 2022-10-24

[86] 2021-05-19 (PCT/US2021/070581)

[87] (WO2021/237241)

[30] US (63/026,950) 2020-05-19

[21] **3,181,184**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6876 (2018.01) C12N 9/00 (2006.01)**

[25] EN

[54] **MULTIPLEX DETECTION OF NUCLEIC ACIDS USING MIXED REPORTERS**

[54] **DETECTION MULTIPLEX D'ACIDES NUCLEIQUES A L'AIDE DE RAPPORTEURS MIXTES**

[72] TODD, ALISON VELYIAN, AU

[72] HASICK, NICOLE JANE, AU

[72] KIM, RYUNG RAE, AU

[72] LAWRENCE, ANDREA LEE, AU

[71] SPEEDX PTY LTD, AU

[85] 2022-10-25

[86] 2020-06-30 (PCT/AU2020/050682)

[87] (WO2020/206509)

[21] **3,181,185**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 1/137 (2006.01)**

[25] EN

[54] **WAREHOUSE FOR ORDER FULFILMENT WITH A PRODUCT STORAGE AND AT LEAST ONE ORDER FULFILMENT AREA**

[54] **ENTREPOT POUR TRAITEMENT DE COMMANDES AVEC STOCKAGE DE PRODUITS ET AU MOINS UNE ZONE DE TRAITEMENT DE COMMANDES**

[72] YAMASHITA, SHIN, DE

[72] SHINOHARA, HIROKI, JP

[72] HUBERTH, DANIEL, DE

[71] DEMATIC GMBH, DE

[85] 2022-10-25

[86] 2020-05-08 (PCT/EP2020/062891)

[87] (WO2021/223885)

[21] **3,181,186**
[13] A1

[51] **Int.Cl. C07K 17/00 (2006.01) C07K 1/04 (2006.01) C07K 14/705 (2006.01) C07K 17/14 (2006.01) C07K 19/00 (2006.01) C12N 11/00 (2006.01)**

[25] EN

[54] **IMMOBILIZED SELF-ASSEMBLED PROTEIN MULTIMERS**

[54] **MULTIMERES DE PROTEINES AUTO-ASSEMBLES IMMOBILISES**

[72] NI, HEYU, CA

[72] NEVES, MIGUEL, PT

[71] CCOA THERAPEUTICS INC., CA

[85] 2022-10-25

[86] 2021-04-27 (PCT/CA2021/050573)

[87] (WO2021/217251)

[30] US (63/015,781) 2020-04-27

[21] **3,181,188**
[13] A1

[51] **Int.Cl. B65G 1/137 (2006.01)**

[25] EN

[54] **WAREHOUSE FOR ORDER FULFILMENT**

[54] **ENTREPOT POUR L'EXECUTION DE COMMANDES**

[72] YAMASHITA, SHIN, DE

[72] SASAKI, YOSHIHIRO, JP

[72] LEWANDOSKE, MAX-REINHARD, DE

[71] DEMATIC GMBH, DE

[85] 2022-10-25

[86] 2020-05-08 (PCT/EP2020/062889)

[87] (WO2021/223883)

[21] **3,181,189**
[13] A1

[51] **Int.Cl. C07D 267/16 (2006.01)**

[25] EN

[54] **SYNTHESIS OF VINYLIC ALCOHOL INTERMEDIATES**

[54] **SYNTHESE D'INTERMEDIAIRES D'ALCOOL VINYLIQUE**

[72] FARRELL, ROBERT P., US

[72] TEDROW, JASON S., US

[71] AMGEN INC., US

[85] 2022-10-25

[86] 2021-04-28 (PCT/US2021/029526)

[87] (WO2021/225835)

[30] US (63/020,888) 2020-05-06

[21] **3,181,190**
[13] A1

[51] **Int.Cl. B65G 1/137 (2006.01) B65G 43/10 (2006.01)**

[25] EN

[54] **METHOD AND STATION FOR PICKING ARTICLES ACCORDING TO THE GOODS-TO-MAN PRINCIPLE**

[54] **PROCEDE ET POSTE DE PRELEVEMENT D'ARTICLES SELON LE PRINCIPE DE LA MARCHANDISE VERS L'HOMME**

[72] YAMASHITA, SHIN, DE

[72] KUDO, YUUKI, JP

[72] MACLEAN, ADAM, AU

[71] DEMATIC GMBH, DE

[85] 2022-10-25

[86] 2020-05-08 (PCT/EP2020/062887)

[87] (WO2021/223881)

PCT Applications Entering the National Phase

[21] **3,181,191**
[13] A1

[51] **Int.Cl. C21D 1/18 (2006.01) C21D 1/22 (2006.01) C21D 1/25 (2006.01) C21D 6/00 (2006.01) C21D 8/02 (2006.01) C21D 8/04 (2006.01) C21D 9/46 (2006.01) C21D 9/48 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01) C22C 38/18 (2006.01)**

[25] EN

[54] **COLD ROLLED ANNEALED STEEL SHEET OR HOT PRESSED ANNEALED STEEL PART**

[54] **TOLE D'ACIER RECUITE LAMINEE A FROID OU PIECE D'ACIER RECUITE PRESSEE A CHAUD**

[72] PERLADE, ASTRID, FR
[72] ZHU, KANGYING, FR
[72] JUNG, CORALIE, FR
[72] STOLTZ, MICHAEL, FR
[71] ARCELORMITTAL, LU
[85] 2022-10-25
[86] 2021-07-12 (PCT/IB2021/056244)
[87] (WO2022/018568)
[30] IB (PCT/IB2020/057004) 2020-07-24

[21] **3,181,194**
[13] A1

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

[25] EN

[54] **FLEXIBLE FRACTURING LINE WITH REMOVABLE LINER**

[54] **CONDUIT DE FRACTURATION FLEXIBLE AYANT UNE DOUBLURE AMOVIBLE**

[72] GUIDRY, KIRK P., US
[72] KHOKHAR, ALEEM A., US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2022-10-25
[86] 2021-04-28 (PCT/US2021/029696)
[87] (WO2021/222440)
[30] US (16/862,390) 2020-04-29

[21] **3,181,195**
[13] A1

[51] **Int.Cl. A01G 7/00 (2006.01) A01G 13/00 (2006.01) A24B 15/18 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR TREATING HARVESTED PLANT MATERIAL WITH OZONE**

[54] **SYSTEME ET PROCEDE POUR TRAITER UN MATERIAU VEGETAL RECOLTE AVEC DE L'OZONE**

[72] ELLSWORTH, JILL LYNN, US
[72] ELLSWORTH, JASON ROBERT, US
[72] OTTMAN, MARK STEVEN, US
[72] SINGLETON, BRIAN DUNN, US
[72] KULE, JOSHUA ADAM, US
[72] ALVAREZ, ADRIAN LEON, US
[71] WILLOWPURE, LLC, US
[85] 2022-10-25
[86] 2021-04-29 (PCT/US2021/029832)
[87] (WO2021/222526)
[30] US (63/018,418) 2020-04-30
[30] US (63/034,222) 2020-06-03
[30] US (63/068,038) 2020-08-20

[21] **3,181,196**
[13] A1

[51] **Int.Cl. B01J 3/00 (2006.01) C22C 21/02 (2006.01) C22C 21/06 (2006.01) C22C 21/08 (2006.01) C22F 1/00 (2006.01) C22F 1/05 (2006.01) C25D 11/10 (2006.01)**

[25] EN

[54] **METHOD OF MANUFACTURING AN ALUMINIUM ALLOY PLATE FOR VACUUM CHAMBER ELEMENTS**

[54] **PROCEDE DE FABRICATION D'UNE TOLE D'ALLIAGE D'ALUMINIUM POUR DES ELEMENTS DE CHAMBRE A VIDE**

[72] AUST, DENNIS, DE
[72] RITZ, FABIAN, DE
[72] JACOBY, BERND, DE
[71] ALERIS ROLLED PRODUCTS GERMANY GMBH, DE
[85] 2022-10-25
[86] 2021-06-07 (PCT/IB2021/054983)
[87] (WO2021/250545)
[30] EP (20179258.7) 2020-06-10

[21] **3,181,197**
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ILT-BINDING AGENTS AND METHODS OF USE THEREOF**

[54] **AGENTS DE LIAISON A ILT ET LEURS METHODES D'UTILISATION**

[72] DUEY, DANA YEN MEI, US
[72] EBENS, JR., ALLEN JAMES, US
[72] KAPLAN, DANIEL DAVID, US
[72] LAM, CHIA-YING KAO, US
[72] MONDAL, KALYANI, US
[72] STONE, GEOFFREY WILLIAM, US
[72] WANG, YAN, US
[71] NGM BIOPHARMACEUTICALS, INC, US
[85] 2022-10-25
[86] 2021-04-29 (PCT/US2021/029866)
[87] (WO2021/222544)
[30] US (63/019,068) 2020-05-01
[30] US (63/122,848) 2020-12-08

[21] **3,181,198**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61P 7/00 (2006.01)**

[25] EN

[54] **COMPLEMENT FACTOR B (CFB) IRNA COMPOSITIONS AND METHODS OF USE THEREOF**

[54] **COMPOSITIONS D'ARNI DU FACTEUR B DU COMPLEMENT (CFB) ET LEURS PROCEDES D'UTILISATION**

[72] MCININCH, JAMES D., US
[72] CASTORENO, ADAM, US
[72] SCHLEGEL, MARK K., US
[72] FISHLEVICH, ELANE, US
[72] YUCIUS, KRISTINA, US
[72] KAITTANIS, CHARALAMBOS, US
[71] ALNYLAM PHARMACEUTICALS, INC., US
[85] 2022-10-25
[86] 2021-04-29 (PCT/US2021/029872)
[87] (WO2021/222549)
[30] US (63/017,725) 2020-04-30
[30] US (63/119,009) 2020-11-30
[30] US (63/157,899) 2021-03-08

Demandes PCT entrant en phase nationale

[21] **3,181,199**
[13] A1

[51] **Int.Cl. B23K 1/00 (2006.01) B23K 35/02 (2006.01) B23K 35/28 (2006.01) B23K 35/38 (2006.01) B32B 15/01 (2006.01) C22C 21/00 (2006.01) C22C 21/02 (2006.01)**

[25] EN

[54] **ALUMINIUM ALLOY MULTI-LAYERED BRAZING SHEET MATERIAL FOR FLUX-FREE BRAZING**

[54] **MATERIAU DE TOLE A BRASAGE EN ALLIAGE D'ALUMINIUM MULTICOUCHE POUR BRASAGE SANS FLUX**

[72] JACOBY, BERND, DE
[72] KIRKHAM, STEVEN, DE
[72] RITZ, FABIAN, DE
[72] SMEYERS, AXEL ALEXANDER MARIA, DE

[71] ALERIS ROLLED PRODUCTS GERMANY GMBH, DE

[85] 2022-10-25
[86] 2021-06-15 (PCT/IB2021/055264)
[87] (WO2021/255638)
[30] EP (20180172.7) 2020-06-16

[21] **3,181,200**
[13] A1

[51] **Int.Cl. B65D 35/28 (2006.01) A23K 50/48 (2016.01) B65D 35/44 (2006.01) B65D 85/72 (2006.01)**

[25] EN

[54] **PACKAGED PET FOOD PRODUCT AND METHOD OF DISPENSING**

[54] **PRODUIT ALIMENTAIRE EMBALLE POUR ANIMAUX DOMESTIQUES ET PROCEDE DE DISTRIBUTION**

[72] IVERSEN, JACQUELINE, US
[72] SWENSON, ANTHONY W., US
[72] TOSTENSON, TAL A., US
[71] BLUE BUFFALO ENTERPRISES, INC., US

[85] 2022-10-25
[86] 2021-02-11 (PCT/US2021/017548)
[87] (WO2021/221755)
[30] US (16/863,514) 2020-04-30

[21] **3,181,201**
[13] A1

[51] **Int.Cl. D21C 11/06 (2006.01) B01D 53/56 (2006.01)**

[25] EN

[54] **A METHOD AND ARRANGEMENT FOR MANAGING AND CONTROLLING NITROGEN EMISSION FROM A CYCLIC LIQUOR FLOW SYSTEM IN A PULP MILL**

[54] **PROCEDE ET AGENCEMENT POUR GERER ET REGULER UNE EMISSION D'AZOTE A PARTIR D'UN SYSTEME D'ECOULEMENT DE LIQUEUR CYCLIQUE DANS UN BROYEUR A PATE**

[72] WIMBY, MARTIN, SE
[72] CHENNA, NAVEEN, FI
[72] WALLIN, ERIK, SE
[72] RAIKO, MIKKO, FI
[72] MANSIKKASALO, JARMO, FI
[72] KARLEMO, CAMILLA, FI
[71] VALMET AB, SE

[85] 2022-10-25
[86] 2021-05-18 (PCT/SE2021/050468)
[87] (WO2021/242162)
[30] SE (2050607-7) 2020-05-27

[21] **3,181,204**
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01)**

[25] EN

[54] **USING AN INTRAOCULAR STROBOSCOPE FOR PHACOEMULSIFIER SURGICAL DEVICE VISUALIZATION**

[54] **UTILISATION D'UN STROBOSCOPE INTRAOCULAIRE POUR LA VISUALISATION D'UN DISPOSITIF CHIRURGICAL PHACO-EMULSIFICATEUR**

[72] GOVARI, ASSAF, IL
[72] GLINER, VADIM, IL
[71] JOHNSON & JOHNSON SURGICAL VISION, INC., US

[85] 2022-10-25
[86] 2021-04-12 (PCT/IB2021/053023)
[87] (WO2021/220094)
[30] US (16/859,034) 2020-04-27

[21] **3,181,205**
[13] A1

[51] **Int.Cl. H04L 47/10 (2022.01)**

[25] EN

[54] **CELL FLOW CHARACTERISTIC VALUE ADJUSTMENT METHOD, DEVICE AND SYSTEM, AND STORAGE MEDIUM**

[54] **PROCEDE, APPAREIL ET SYSTEME D'AJUSTEMENT DE TRAITS CARACTERISTIQUES DE FLUX DE CELLULES, ET SUPPORT DE STOCKAGE**

[72] LIU, FENG, CN
[71] ZTE CORPORATION, CN

[85] 2022-10-25
[86] 2021-01-25 (PCT/CN2021/073630)
[87] (WO2021/218248)
[30] CN (202010365322.1) 2020-04-30

[21] **3,181,207**
[13] A1

[51] **Int.Cl. A61P 25/00 (2006.01) C07K 16/18 (2006.01)**

[25] EN

[54] **A-SYNUCLEIN PROTOFIBRIL-BINDING ANTIBODIES**

[54] **ANTICORPS SE LIANT A LA PROTOFIBRILLE D'A-SYNUCLEINE**

[72] NORDSTROM, EVA, SE
[72] SIGVARDSON, JESSICA, SE
[72] NYGREN, PATRIK, SE
[71] BIOARCTIC AB, SE

[85] 2022-10-25
[86] 2021-06-25 (PCT/IB2021/000440)
[87] (WO2021/260434)
[30] US (63/044,881) 2020-06-26
[30] US (63/071,150) 2020-08-27

[21] **3,181,208**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01)**

[25] EN

[54] **MONITORING DEVICE**

[54] **DISPOSITIF DE SURVEILLANCE**

[72] ARAL, MERT, GB
[72] VAHDAT, DANOOSH, GB
[72] NIKBAKHTIAN, SHAHRAM, GB
[71] HUMA THERAPEUTICS LIMITED, GB

[85] 2022-10-25
[86] 2021-04-30 (PCT/GB2021/051054)
[87] (WO2021/220017)
[30] GB (2006410.1) 2020-04-30

PCT Applications Entering the National Phase

[21] **3,181,210**
[13] A1

[51] **Int.Cl. A61K 8/21 (2006.01) A61K 8/362 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS COMPRISING DICARBOXYLIC ACID**
[54] **COMPOSITIONS DE SOIN BUCCAL COMPRENANT DE L'ACIDE DICARBOXYLIQUE**
[72] CURTIS, MICHAEL DAVID, US
[72] GROTH, ANDREW FREDERIC, US
[72] SAGEL, PAUL ALBERT, US
[72] ST. JOHN, SAMUEL JAMES, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-10-25
[86] 2021-05-05 (PCT/US2021/030752)
[87] (WO2021/226154)
[30] US (63/020,034) 2020-05-05

[21] **3,181,212**
[13] A1

[51] **Int.Cl. A61K 8/21 (2006.01) A61K 8/362 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS COMPRISING DICARBOXYLIC ACID**
[54] **COMPOSITIONS DE SOIN BUCCAL COMPRENANT DE L'ACIDE DICARBOXYLIQUE**
[72] CURTIS, MICHAEL DAVID, US
[72] GROTH, ANDREW FREDERIC, US
[72] SAGEL, PAUL ALBERT, US
[72] ST. JOHN, SAMUEL JAMES, US
[72] ZSISKA, MARIANNE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-10-25
[86] 2021-05-05 (PCT/US2021/030751)
[87] (WO2021/226153)
[30] US (63/020,033) 2020-05-05

[21] **3,181,213**
[13] A1

[51] **Int.Cl. C07C 69/16 (2006.01) C07C 69/78 (2006.01) C07C 309/23 (2006.01) C07D 249/18 (2006.01) C07D 513/08 (2006.01) C07D 513/10 (2006.01)**
[25] EN
[54] **SYNTHESIS OF VINYL CYCLOBUTYL INTERMEDIATES**
[54] **SYNTHESE D'INTERMEDIAIRES DE VINYL CYCLOBUTYLE**
[72] SMITH, AUSTIN G., US
[72] CORBETT, MICHAEL T., US
[72] LANGILLE, NEIL FRED, US
[72] BAUCOM, KYLE D., US
[72] DORNAN, PETER K., US
[72] ST-PIERRE, GABRIELLE, US
[72] ROOSEN, PHILIPP C., US
[72] CUI, SHENG, US
[72] PROFETA, ROBERTO, US
[71] AMGEN INC., US
[85] 2022-10-25
[86] 2021-05-04 (PCT/US2021/030548)
[87] (WO2021/226009)
[30] US (63/020,877) 2020-05-06

[21] **3,181,214**
[13] A1

[51] **Int.Cl. A61K 31/553 (2006.01) A61K 31/554 (2006.01) A61P 35/00 (2006.01) C07D 267/14 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **SYNTHESIS OF VINYLIC PROTECTED ALCOHOL INTERMEDIATES**
[54] **SYNTHESE D'INTERMEDIAIRES ALCOOLIQUES PROTEGES VINyliques**
[72] SMITH, AUSTIN G., US
[72] HUANG, LIANG, US
[71] AMGEN INC., US
[85] 2022-10-25
[86] 2021-04-27 (PCT/US2021/029271)
[87] (WO2021/225823)
[30] US (63/020,862) 2020-05-06

[21] **3,181,217**
[13] A1

[51] **Int.Cl. A61K 8/20 (2006.01) A61K 8/21 (2006.01) A61K 8/365 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS COMPRISING MONODENTATE AND POLYDENTATE LIGAND**
[54] **COMPOSITIONS DE SOINS BUCCODENTAIRES COMPRENANT UN LIGAND MONODENTATE ET POLYDENTATE**
[72] GLANDORF, WILLIAM MICHAEL, US
[72] GROTH, ANDREW FREDERIC, US
[72] ST. JOHN, SAMUEL JAMES, US
[72] STRAND, ROSS, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-10-25
[86] 2021-05-05 (PCT/US2021/030754)
[87] (WO2021/226156)
[30] US (63/020,032) 2020-05-05

[21] **3,181,219**
[13] A1

[51] **Int.Cl. A01N 43/56 (2006.01) A01N 43/647 (2006.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **SUBSTITUTED TOLYL FUNGICIDES AND THEIR MIXTURES**
[54] **FONGICIDES A BASE DE TOLYLE SUBSTITUES ET LEURS MELANGES**
[72] BEREZNAK, JAMES FRANCIS, US
[72] BOLGUNAS, STEPHEN P., US
[72] TAGGI, ANDREW EDMUND, US
[72] VEGA-JIMENEZ, BYRON, US
[72] UPPALAPATI, SRINIVASA RAO, US
[71] FMC CORPORATION, US
[85] 2022-10-25
[86] 2021-05-05 (PCT/US2021/030888)
[87] (WO2021/226234)
[30] US (63/020,728) 2020-05-06

Demandes PCT entrant en phase nationale

[21] 3,181,220 [13] A1	[21] 3,181,227 [13] A1	[21] 3,181,328 [13] A1
[51] Int.Cl. A61B 18/24 (2006.01) [25] EN [54] ACTIVE ALIGNMENT SYSTEM FOR IMPROVING OPTICAL COUPLING OF MULTIPLEXER FOR LASER-DRIVEN INTRAVASCULAR LITHOTRIPSY DEVICE [54] SYSTEME D'ALIGNEMENT ACTIF POUR AMELIORER LE COUPLAGE OPTIQUE D'UN MULTIPLEXEUR POUR UN DISPOSITIF DE LITHOTRIE INTRAVASCULAIRE ENTRAINE PAR LASER [72] COOK, CHRISTOPHER A., US [72] BACHER, GERALD DAVID, US [72] BLACK, JOHN F., US [71] BOLT MEDICAL, INC., US [85] 2022-10-25 [86] 2021-05-06 (PCT/US2021/031130) [87] (WO2021/231178) [30] US (63/023,669) 2020-05-12 [30] US (17/308,934) 2021-05-05	[51] Int.Cl. G02B 1/00 (2006.01) G02B 6/02 (2006.01) G02B 6/122 (2006.01) G02B 6/30 (2006.01) G02F 1/00 (2006.01) [25] EN [54] TUNABLE NANOCIRCUIT AND WAVEGUIDE SYSTEM AND METHOD ON OPTICAL FIBER [54] NANOCIRCUIT ACCORDABLE ET SYSTEME ET PROCEDE DE GUIDE D'ONDES SUR FIBRE OPTIQUE [72] LEE, HO WAI HOWARD, US [71] BAYLOR UNIVERSITY, US [85] 2022-10-25 [86] 2021-05-28 (PCT/US2021/034945) [87] (WO2021/243266) [30] US (63/032,050) 2020-05-29 [30] US (17/333,762) 2021-05-28	[51] Int.Cl. F03D 7/00 (2006.01) F03D 7/04 (2006.01) [25] EN [54] WIND TURBINE GENERATOR SYSTEM, AND ROTATION SPEED AVOIDANCE CONTROL METHOD AND APPARATUS THEREFOR [54] SYSTEME DE GENERATEUR EOLIEN, ET PROCEDE DE COMMANDE D'EVITEMENT DE VITESSE DE ROTATION ET APPAREIL ASSOCIES [72] ZHANG, XINLI, CN [72] HU, YE, CN [71] BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD., CN [85] 2022-10-25 [86] 2021-03-30 (PCT/CN2021/083977) [87] (WO2022/001248) [30] CN (202010597154.9) 2020-06-28
[21] 3,181,225 [13] A1	[21] 3,181,284 [13] A1	[21] 3,181,330 [13] A1
[51] Int.Cl. H04N 21/41 (2011.01) H04N 21/442 (2011.01) H04N 5/64 (2006.01) H04R 5/02 (2006.01) [25] EN [54] PROVIDING ENERGY EFFICIENT FEATURES USING HUMAN PRESENCE DETECTION [54] FOURNITURE DE CARACTERISTIQUES ECOENERGETIQUES A L'AIDE D'UNE DETECTION DE PRESENCE HUMAINE [72] NEERBEK, JAN, US [72] MALEWSKI, RAFAL KRZYSZTOF, US [72] MOLLER, BRIAN THOFT MOTH, US [72] NANGERONI, PAUL, US [72] CHARI, AMALAVOYAL NARASIMHA, US [71] ROKU, INC., US [85] 2022-10-25 [86] 2021-05-13 (PCT/US2021/032302) [87] (WO2021/231765) [30] US (15/930,712) 2020-05-13	[51] Int.Cl. G01J 9/02 (2006.01) [25] EN [54] MEASURING WAVELENGTH OF LIGHT [54] MESURE DE LONGUEUR D'ONDE DE LUMIERE [72] KEAVENEY, JAMES, CA [72] GILLETT, GEOFFREY GORDON, CA [72] LIU, CHANG, CA [72] ERSKINE, JENNIFER ANN JOE, CA [72] SHAFFER, JAMES P., CA [71] QUANTUM VALLEY IDEAS LABORATORIES, CA [85] 2022-12-02 [86] 2020-12-18 (PCT/CA2020/051749) [87] (WO2021/258184) [30] US (16/907,469) 2020-06-22	[51] Int.Cl. F16L 57/02 (2006.01) [25] EN [54] TUBING SUPPORT DEVICE AND METHOD OF MANUFACTURE [54] DISPOSITIF DE SUPPORT DE TUBE ET PROCEDE DE FABRICATION [72] SHOEMAKER, KENNETH, US [72] ANSON, JONATHAN, US [72] WYLIE, BRET, US [72] HUNTER, GLENN M., US [72] BROWN, SPERRY K., US [71] AMGEN INC., US [85] 2022-10-25 [86] 2021-05-25 (PCT/US2021/034003) [87] (WO2021/247282) [30] US (63/035,439) 2020-06-05

PCT Applications Entering the National Phase

[21] **3,181,331**
[13] A1

[51] **Int.Cl. A61B 8/08 (2006.01) A61B 8/12 (2006.01)**
[25] EN
[54] **ULTRASOUND LOCATABLE SURGICAL GUIDEWIRE SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE FIL-GUIDE CHIRURGICAL LOCALISABLE ULTRASONORE**
[72] OLAFSEN, LINDA J., US
[72] SCHUBERT, KEITH E., US
[72] OLAFSEN, JEFFERY S., US
[72] DAYAWANSA, SAMANTHA, US
[72] HUANG, JASON H., US
[71] BAYLOR UNIVERSITY, US
[71] SCOTT & WHITE HEALTHCARE, US
[85] 2022-10-25
[86] 2021-05-18 (PCT/US2021/032891)
[87] (WO2021/236588)
[30] US (63/026,537) 2020-05-18

[21] **3,181,332**
[13] A1

[51] **Int.Cl. G02B 5/20 (2006.01) G02F 1/1335 (2006.01) G09G 3/20 (2006.01) G09G 3/34 (2006.01) G09G 5/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR A MULTI-PRIMARY WIDE GAMUT COLOR SYSTEM**
[54] **SYSTEME ET PROCEDE POUR UN SYSTEME COULEUR A LARGE GAMUT A PRIMAIRES MULTIPLES**
[72] MANDLE, GARY B., US
[72] DEFILIPPIS, JAMES M., US
[72] BOGDANOWICZ, MITCHELL J., US
[71] BAYLOR UNIVERSITY, US
[85] 2022-10-25
[86] 2021-04-23 (PCT/US2021/028857)
[87] (WO2021/222022)
[30] US (16/860,769) 2020-04-28
[30] US (16/887,807) 2020-05-29
[30] US (17/009,408) 2020-09-01
[30] US (17/060,959) 2020-10-01
[30] US (17/180,441) 2021-02-19

[21] **3,181,333**
[13] A1

[51] **Int.Cl. C07D 453/02 (2006.01) A61K 31/49 (2006.01) A61P 1/00 (2006.01) A61P 11/00 (2006.01) A61P 11/02 (2006.01) A61P 11/06 (2006.01) A61P 11/14 (2006.01) A61P 13/10 (2006.01)**
[25] EN
[54] **CRYSTALS, PREPARATION METHOD AND APPLICATION OF A MUSCARINIC RECEPTOR ANTAGONIST**
[54] **CRISTAL DE L'ANTAGONISTE DU RECEPTEUR M, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] CHEN, XIAOPING, CN
[72] GAO, ZEJUN, CN
[71] BEIJING SHOWBY PHARMACEUTICAL CO., LTD., CN
[85] 2022-10-25
[86] 2021-04-24 (PCT/CN2021/089464)
[87] (WO2021/218833)
[30] CN (202010338830.0) 2020-04-26

[21] **3,181,334**
[13] A1

[51] **Int.Cl. B62J 45/413 (2020.01) B62J 45/42 (2020.01) B62J 50/21 (2020.01) B62K 25/08 (2006.01) B62K 25/28 (2006.01) G01D 5/14 (2006.01) B62K 3/02 (2006.01)**
[25] EN
[54] **REAR SUSPENSION DEVICE, SYSTEM AND METHOD FOR A BICYCLE**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE SUSPENSION ARRIERE POUR UNE BICYCLETTE**
[72] MARTINEZ GUILLEN, MANUEL, ES
[72] MARTINEZ FEMENIA, FRANCISCO, ES
[72] MAS ROCAMORA, MOISES, ES
[72] GOMEZ ANDRADE, ALVARO, ES
[72] RODRIGUEZ ALVARO, ELAD, ES
[71] SANCHEZ SOLER, FRANCISCO, ES
[85] 2022-10-26
[86] 2021-07-23 (PCT/EP2021/070630)
[87] (WO2022/018241)
[30] EP (202020336.2) 2020-07-24

[21] **3,181,335**
[13] A1

[51] **Int.Cl. F16F 15/023 (2006.01) F16F 15/03 (2006.01)**
[25] EN
[54] **HYBRID DAMPING MODULE, VIBRATION SUPPRESSION DEVICE, VIBRATION SUPPRESSION METHOD, AND WIND TURBINE SET**
[54] **MODULE D'AMORTISSEMENT HYBRIDE, DISPOSITIF DE SUPPRESSION DE VIBRATIONS, PROCEDE DE SUPPRESSION DE VIBRATIONS ET ENSEMBLE D'EOLIENNES**
[72] GAO, YANG, CN
[72] ZHANG, ZHIHONG, CN
[72] XU, ZHILIANG, CN
[71] BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD., CN
[85] 2022-10-26
[86] 2020-12-02 (PCT/CN2020/133399)
[87] (WO2022/000989)
[30] CN (202010606894.4) 2020-06-29

[21] **3,181,336**
[13] A1

[51] **Int.Cl. A61K 31/4162 (2006.01) A61K 31/4196 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **NOVEL PHARMACEUTICAL FORMULATION FOR C-MET INHIBITOR**
[54] **NOUVELLE FORMULATION PHARMACEUTIQUE POUR INHIBITEUR DE C-MET**
[72] REDKAR, SANJEEV, US
[72] STUMPFIG, THOMAS, US
[72] MUSKE-DUKES-DRIGGS, ANNE, US
[72] REYNOLDS, THOMAS, US
[72] FALK, THURMAN, RUSSELL, US
[72] LI, MIKE, TSO-PING, US
[72] VIJAYAKUMAR, PREMA, US
[71] APOLLOMICS INC., US
[85] 2022-10-25
[86] 2021-04-24 (PCT/US2021/029022)
[87] (WO2021/222045)
[30] US (63/015,675) 2020-04-26

Demandes PCT entrant en phase nationale

[21] **3,181,337**
[13] A1

[51] **Int.Cl. C08F 4/654 (2006.01) C08F 10/00 (2006.01)**
[25] EN
[54] **CATALYST COMPONENT FOR OLEFIN POLYMERIZATION OR COPOLYMERIZATION AND PREPARATION METHOD THEREFOR, AND APPLICATION**
[54] **CONSTITUANT CATALYSEUR POUR LA POLYMERISATION OU LA COPOLYMERISATION D'OLEFINES ET SON PROCEDE DE PREPARATION, ET APPLICATION**
[72] CUI, NANNAN, CN
[72] GUO, ZIFANG, CN
[72] GOU, QINGQIANG, CN
[72] LI, BINGYI, CN
[72] WANG, RUEN, CN
[72] LI, YAN, CN
[72] FU, JIE, CN
[72] YAN, LIXIN, CN
[72] AN, JINGYAN, CN
[72] KOU, PENG, CN
[72] XU, SHIYUAN, CN
[72] ZHANG, TONGXUAN, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[85] 2022-10-25
[86] 2021-04-26 (PCT/CN2021/089891)
[87] (WO2021/218913)
[30] CN (202010352921.X) 2020-04-28

[21] **3,181,338**
[13] A1

[51] **Int.Cl. C22C 38/04 (2006.01) C21D 8/02 (2006.01) C22C 38/02 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01)**
[25] EN
[54] **ECONOMICAL LOW-YIELD RATIO AND HIGH-STRENGTH STEEL AND MANUFACTURING METHOD THEREFOR**
[54] **ACIER A HAUTE RESISTANCE ET A FAIBLE RENDEMENT ECONOMIQUE ET PROCEDE DE FABRICATION ASSOCIE**
[72] SUN, LEILEI, CN
[72] ZHU, CHUNSHENG, CN
[72] WU, KOUGEN, CN
[72] ZHENG, LEI, CN
[72] ZHANG, CHUANGUO, CN
[72] SHEN, YAN, CN
[71] BAOSHAN IRON & STEEL CO., LTD., CN
[85] 2022-10-26
[86] 2021-04-26 (PCT/CN2021/090025)
[87] (WO2021/218933)
[30] CN (202010343862.X) 2020-04-27

[21] **3,181,339**
[13] A1

[51] **Int.Cl. C12N 15/88 (2006.01)**
[25] EN
[54] **STABILIZATION OF POLYETHYLENEIMINE-DEOXYRIBONUCLEIC ACID COMPLEX SIZE AND ACTIVITY**
[54] **STABILISATION DE LA TAILLE ET DE L'ACTIVITE DU COMPLEXE POLYETHYLENE-IMINE-ACIDE DESOXYRIBONUCLEIQUE**
[72] OLDEN, BRYNN, US
[72] BARNES, ROBERT, US
[72] LARIMORE, ELIZABETH, US
[72] SHI, JULIE, US
[71] JUNO THERAPEUTICS, INC., US
[85] 2022-10-25
[86] 2021-04-26 (PCT/US2021/029224)
[87] (WO2021/222133)
[30] US (63/016,166) 2020-04-27
[30] US (63/023,119) 2020-05-11

[21] **3,181,340**
[13] A1

[51] **Int.Cl. C12N 5/10 (2006.01)**
[25] EN
[54] **METHODS OF IN VITRO CELL DELIVERY**
[54] **PROCEDES D'ADMINISTRATION DE CELLULES IN VITRO**
[72] NARENDRA, POOJA KYATSANDRA, US
[72] BURNS, SEAN MICHAEL, US
[72] GUTIERREZ MARTINEZ, PAULA, US
[72] KANJOLIA, ARTI MAHENDRA PRAKASH, US
[72] MONTI, ANTHONY, US
[72] PRODEUS, AARON, US
[72] ARREDOUANI, MOHAMED SIMO, US
[72] KILIC, OZGUN, US
[72] LARIVIERE, REED WALKER, US
[72] SHARMA, PALAK SUSHIL, US
[72] STAMPOULOGLOU, ELENI, US
[72] ZHANG, QINGZHAN, US
[71] INTELLIA THERAPEUTICS, INC., US
[85] 2022-10-25
[86] 2021-04-27 (PCT/US2021/029446)
[87] (WO2021/222287)
[30] US (63/016,913) 2020-04-28
[30] US (63/121,781) 2020-12-04
[30] US (63/124,058) 2020-12-11
[30] US (63/130,100) 2020-12-23
[30] US (63/165,619) 2021-03-24
[30] US (63/176,221) 2021-04-17

[21] **3,181,341**
[13] A1

[51] **Int.Cl. E04C 3/16 (2006.01) E04C 3/17 (2006.01)**
[25] EN
[54] **GLUED TIMBER TRUSSED JOIST, JOINT AND METHOD**
[54] **SOLIVE EN TREILLIS EN BOIS COLLEE, JOINT ET PROCEDE**
[72] POUTANEN, TUOMO, FI
[71] PATENTTITOIMISTO T. POUTANEN, FI
[85] 2022-10-26
[86] 2021-04-14 (PCT/FI2021/050237)
[87] (WO2021/224542)
[30] US (16/865,763) 2020-05-04

PCT Applications Entering the National Phase

[21] **3,181,342**
[13] A1

[51] **Int.Cl. B21D 43/05 (2006.01) B25J 19/00 (2006.01) B30B 15/30 (2006.01)**

[25] EN

[54] **TRANSFER SYSTEM FOR PRESSES AND PRESS ASSEMBLY**

[54] **SYSTEME DE TRANSFERT POUR PRESSES ET ENSEMBLE PRESSE**

[72] SPIESSHOFER, THOMAS, DE

[72] MULLER, CHRISTIAN, DE

[72] WEBER, ELMAR, DE

[72] PFOHL, ANETT, DE

[71] AIDA EUROPE GMBH, DE

[85] 2022-10-26

[86] 2021-05-10 (PCT/DE2021/100426)

[87] (WO2021/228326)

[30] DE (10 2020 112 613.1) 2020-05-11

[21] **3,181,343**
[13] A1

[51] **Int.Cl. A61M 5/148 (2006.01) A61M 5/44 (2006.01)**

[25] EN

[54] **AN ASSEMBLY AND A SYSTEM SUITABLE FOR DISPENSING A LIQUID FROM A COMPRESSIBLE BAG**

[54] **ENSEMBLE ET SYSTEME DE DISTRIBUTION D'UN LIQUIDE A PARTIR D'UN SAC COMPRESSIBLE**

[72] HESSAM, AHMED ABDULLAH, DK

[71] OSAA INNOVATION APS, DK

[85] 2022-10-25

[86] 2021-04-29 (PCT/DK2021/050134)

[87] (WO2021/219187)

[30] DK (PA 2020 70274) 2020-04-30

[21] **3,181,344**
[13] A1

[51] **Int.Cl. A61K 8/20 (2006.01) A61K 8/21 (2006.01) A61K 8/362 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS COMPRISING DICARBOXYLIC ACID**

[54] **COMPOSITIONS DE SOINS BUCCO-DENTAIRES COMPRENANT DE L'ACIDE DICARBOXYLIQUE**

[72] GROTH, ANDREW FREDERIC, US

[72] SAGEL, PAUL ALBERT, US

[72] ST. JOHN, SAMUEL JAMES, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2022-10-25

[86] 2021-05-05 (PCT/US2021/030753)

[87] (WO2021/226155)

[30] US (63/020,035) 2020-05-05

[21] **3,181,345**
[13] A1

[51] **Int.Cl. A61K 8/20 (2006.01) A61K 8/21 (2006.01) A61K 8/25 (2006.01) A61K 8/365 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **REMINEALIZING ORAL CARE COMPOSITIONS COMPRISING TIN**

[54] **COMPOSITIONS D'HYGIENE BUCCALE COMPRENANT DE L'ETAIN**

[72] BAIG, ARIF ALI, US

[72] BIESBROCK, AARO REED, US

[72] GROTH, ANDREW FREDERIC, US

[72] ST. JOHN, SAMUEL JAMES, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2022-10-25

[86] 2021-05-05 (PCT/US2021/030755)

[87] (WO2021/226157)

[30] US (63/020,036) 2020-05-05

[21] **3,181,346**
[13] A1

[51] **Int.Cl. G01H 1/00 (2006.01) F04B 51/00 (2006.01) G01H 17/00 (2006.01)**

[25] EN

[54] **CONFIGURABLE GRAPHICAL VIBRATION BAND ALARM FOR PUMP MONITORING**

[54] **ALARME DE BANDE DE VIBRATION GRAPHIQUE CONFIGURABLE DESTINEE A UNE SURVEILLANCE DE POMPE**

[72] REITANO, JAMES, US

[71] ITT MANUFACTURING ENTERPRISES LLC, US

[85] 2022-10-25

[86] 2021-04-07 (PCT/US2021/026159)

[87] (WO2021/221867)

[30] US (63/017,992) 2020-04-30

[21] **3,181,347**
[13] A1

[51] **Int.Cl. G01N 27/327 (2006.01) G01N 33/94 (2006.01)**

[25] EN

[54] **TEST STRIP FOR THE DETECTION OF NEUTRAL ANALYTES IN A SAMPLE**

[54] **BANDELETTE REACTIVE POUR LA DETECTION D'ANALYTES NEUTRES DANS UN ECHANTILLON**

[72] WESTER, NIKLAS, FI

[72] KOSKINEN, JARI, FI

[72] VARJOS, ILKKA, FI

[72] MIKLADAL, BJORN, FI

[71] FEPOD OY LTD, FI

[85] 2022-10-26

[86] 2021-04-27 (PCT/FI2021/050312)

[87] (WO2021/219936)

[30] FI (20205422) 2020-04-27

Demandes PCT entrant en phase nationale

[21] 3,181,348 [13] A1	[21] 3,181,349 [13] A1	[21] 3,181,351 [13] A1
[51] Int.Cl. C12Q 1/6883 (2018.01) [25] EN [54] SOLUTE CARRIER FAMILY 26 MEMBER 5 (SLC26A5) VARIANTS AND USES THEREOF [54] VARIANTS D'ELEMENT 5 DE LA FAMILLE 26 DES TRANSPORTEURS DE SOLUTE (SLC26A5) ET LEURS UTILISATIONS [72] PRAVEEN, KAVITA, US [72] COPPOLA, GIOVANNI, US [72] FERREIRA, MANUEL ALLEN REVEZ, US [72] GURSKI, LAUREN, US [72] BARAS, ARIS, US [72] DRUMMOND SAMUELSON, MEGHAN, US [72] ABECASIS, GONCALO, US [71] REGENERON PHARMACEUTICALS, INC., US [85] 2022-10-25 [86] 2021-05-05 (PCT/US2021/030866) [87] (WO2021/231149) [30] US (63/022,456) 2020-05-09	[51] Int.Cl. A01N 43/60 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) [25] EN [54] 1-PYRAZINYLPYRAZOLYL-3-OXYALKYL ACIDS AND THEIR DERIVATIVES, AND THEIR USE FOR CONTROL OF UNDESIREED PLANT GROWTH [54] ACIDES 1-PYRAZINYLPYRAZOLYL-3-OXYALKYLE ET LEURS DERIVES, ET LEUR UTILISATION POUR LUTTER CONTRE LA CROISSANCE DE PLANTES INDESIRABLES [72] JAKOBI, HARALD, DE [72] HOFFMANN, MICHAEL GERHARD, DE [72] MULLER, THOMAS, DE [72] BUSCATO ARSEQUELL, ESTELLA, DE [72] SCHMUTZLER, DIRK, DE [72] MACHETTIRA, ANU BHEEMAIHAH, DE [72] ASMUS, ELISABETH, DE [72] GATZWEILER, ELMAR, DE [72] ROSINGER, CHRISTOPHER HUGH, DE [72] BOLLENBACH-WAHL, BIRGIT, DE [72] DITTGEN, JAN, DE [71] BAYER AKTIENGESELLSCHAFT, DE [85] 2022-10-26 [86] 2021-04-26 (PCT/EP2021/060784) [87] (WO2021/219527) [30] EP (20172043.0) 2020-04-29	[51] Int.Cl. C07D 401/12 (2006.01) A61K 31/4409 (2006.01) A61K 31/4545 (2006.01) A61P 3/00 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07C 275/26 (2006.01) C07D 205/04 (2006.01) C07D 205/12 (2006.01) C07D 207/06 (2006.01) C07D 209/08 (2006.01) C07D 209/44 (2006.01) C07D 209/54 (2006.01) C07D 211/94 (2006.01) C07D 211/98 (2006.01) C07D 213/38 (2006.01) C07D 213/40 (2006.01) C07D 213/50 (2006.01) C07D 213/71 (2006.01) C07D 213/81 (2006.01) C07D 213/82 (2006.01) C07D 215/08 (2006.01) C07D 215/12 (2006.01) C07D 215/18 (2006.01) C07D 215/20 (2006.01) C07D 217/06 (2006.01) C07D 221/20 (2006.01) C07D 231/12 (2006.01) C07D 231/56 (2006.01) C07D 241/04 (2006.01) C07D 263/32 (2006.01) C07D 265/36 (2006.01) C07D 295/185 (2006.01) C07D 295/192 (2006.01) C07D 305/08 (2006.01) C07D 307/22 (2006.01) C07D 309/08 (2006.01) C07D 335/02 (2006.01) C07D 401/04 (2006.01) C07D 401/06 (2006.01) C07D 403/04 (2006.01) C07D 403/10 (2006.01) C07D 403/12 (2006.01) C07D 405/06 (2006.01) C07D 413/06 (2006.01) C07D 413/12 (2006.01) C07D 471/04 (2006.01) [25] EN [54] NAMPT MODULATORS [54] MODULATEURS DE NAMPT [72] ROMERO, ANTONIO, US [72] CHANDRA, AROOP, US [72] EVANS, CHRISTOPHER, US [72] SHEN, MINXING, US [71] CYTOKINETICS, INC., US [85] 2022-10-25 [86] 2021-05-05 (PCT/US2021/030950) [87] (WO2021/226276) [30] US (63/020,904) 2020-05-06
	[21] 3,181,350 [13] A1	
	[51] Int.Cl. A61K 31/506 (2006.01) [25] EN [54] TETRAZOLE DERIVATIVES AS TRPA1 INHIBITORS [54] DERIVES DE TETRAZOLE UTILES EN TANT QU'INHIBITEURS DE TRPA1 [72] BINDER, FLORIAN PAUL CHRISTIAN, DE [72] FLECK, MARTIN THOMAS, DE [72] WILLWACHER, JENS, DE [71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE [85] 2022-10-26 [86] 2021-06-25 (PCT/EP2021/067470) [87] (WO2022/002782) [30] EP (20182988.4) 2020-06-29	

PCT Applications Entering the National Phase

[21] **3,181,352**
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/52 (2006.01)**

[25] EN

[54] **TRANSGLUTAMINASE VARIANTS AND APPLICATIONS OF USE THEREOF**

[54] **VARIANTS DE TRANSGLUTAMINASE ET LEURS PROCEDES D'UTILISATION**

[72] SHINDEL, WILLIAM, US

[72] GEDEON, KAMIL S., US

[72] MILCZEK, ERIKA M., US

[72] COSTA, SIMONE A., US

[71] CURIE CO. INC., US

[85] 2022-10-25

[86] 2021-05-13 (PCT/US2021/032217)

[87] (WO2021/231705)

[30] US (63/024,398) 2020-05-13

[30] US (63/074,288) 2020-09-03

[21] **3,181,353**
[13] A1

[51] **Int.Cl. F01K 3/00 (2006.01) F24H 3/04 (2022.01) F24H 7/04 (2006.01) F28D 20/00 (2006.01) H02J 15/00 (2006.01) H05B 3/24 (2006.01) F28D 17/02 (2006.01) F28D 17/04 (2006.01)**

[25] EN

[54] **A HEATING DEVICE, A HEATING SYSTEM, A HEAT STORAGE DEVICE AND A HEAT STORAGE SYSTEM**

[54] **DISPOSITIF DE CHAUFFAGE, SYSTEME DE CHAUFFAGE, DISPOSITIF DE STOCKAGE D'ENERGIE THERMIQUE ET SYSTEME DE STOCKAGE D'ENERGIE THERMIQUE**

[72] DOERBECK, TILL, DE

[72] HERRMANN, JAKOB, DE

[72] SCHWARZ, GERHARD, DE

[71] KRAFTANLAGEN MUNCHEN GMBH, DE

[85] 2022-10-26

[86] 2021-04-29 (PCT/EP2021/061303)

[87] (WO2021/224109)

[30] DE (10 2020 111 987.9) 2020-05-04

[21] **3,181,354**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **ANTAGONISTS OF THE ADENOSINE A2A RECEPTOR**

[54] **ANTAGONISTES DU RECEPTEUR A2A DE L'ADENOSINE**

[72] MCCARTHY, CLIVE, GB

[72] MOULTON, BENJAMIN, GB

[71] ADORX THERAPEUTICS LIMITED, GB

[85] 2022-10-26

[86] 2021-05-06 (PCT/GB2021/051106)

[87] (WO2021/224636)

[30] GB (2006823.5) 2020-05-07

[30] GB (2019922.0) 2020-12-16

[21] **3,181,355**
[13] A1

[51] **Int.Cl. H04N 21/41 (2011.01) H04N 21/442 (2011.01) H04N 5/64 (2006.01) H04R 5/02 (2006.01)**

[25] EN

[54] **PROVIDING CUSTOMIZED ENTERTAINMENT EXPERIENCE USING HUMAN PRESENCE DETECTION**

[54] **FOURNITURE D'EXPERIENCE DE DIVERTISSEMENT PERSONNALISEE A L'AIDE D'UNE DETECTION DE PRESENCE HUMAINE**

[72] NEERBEK, JAN, US

[72] MALEWSKI, RAFAL KRZYSZTOF, US

[72] MOLLER, BRIAN THOFT MOTH, US

[72] NANGERONI, PAUL, US

[72] CHARI, AMALAVOYAL NARASIMHA, US

[71] ROKU, INC., US

[85] 2022-10-25

[86] 2021-05-13 (PCT/US2021/032301)

[87] (WO2021/231764)

[30] US (15/930,704) 2020-05-13

[21] **3,181,357**
[13] A1

[51] **Int.Cl. G01N 33/30 (2006.01) G01N 21/3577 (2014.01)**

[25] EN

[54] **OIL DEGRADATION DIAGNOSIS DEVICE**

[54] **DISPOSITIF DE DIAGNOSTIC DE DEGRADATION D'HUILE**

[72] ONO, ICHIRO, JP

[71] MITO KOGYO CO., LTD., JP

[85] 2022-10-26

[86] 2021-10-28 (PCT/JP2021/039761)

[87] (WO2022/130795)

[30] JP (2020-207492) 2020-12-15

[21] **3,181,358**
[13] A1

[51] **Int.Cl. E02B 3/12 (2006.01) E02B 29/02 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN AND RELATING TO EROSION PREVENTION**

[54] **AMELIORATIONS DE LA PREVENTION DE L'EROSION ET CONCERNANT LA PREVENTION DE L'EROSION**

[72] EVANS, MARCUS PAUL, GB

[72] EVANS, WILLIAM PAUL, GB

[71] SHORE DEFENCE LIMITED, GB

[85] 2022-10-26

[86] 2021-05-07 (PCT/GB2021/051111)

[87] (WO2021/229205)

[30] GB (2007166.8) 2020-05-14

[30] GB (2017230.0) 2020-10-30

[21] **3,181,359**
[13] A1

[51] **Int.Cl. A61F 2/02 (2006.01) A61K 35/12 (2015.01) A61L 27/34 (2006.01) A61L 27/38 (2006.01)**

[25] EN

[54] **CONFORMAL COATING OF CELLS FOR IMMUNOISOLATION**

[54] **REVETEMENT CONFORME DE CELLULES POUR L'IMMUNOISOLATION**

[72] TOMEI, ALICE A., US

[72] STOCK, AARON, US

[72] LUPP, MICHAEL, US

[71] UNIVERSITY OF MIAMI, US

[85] 2022-10-26

[86] 2021-04-28 (PCT/US2021/029744)

[87] (WO2021/222469)

[30] US (63/016,787) 2020-04-28

Demandes PCT entrant en phase nationale

[21] **3,181,360**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01) B25J 9/00 (2006.01) B65B 25/24 (2006.01)**

[25] EN

[54] **ROBOT TOOL AND METHOD FOR COIL PACKAGING**

[54] **OUTIL ROBOTISE ET PROCEDE D'EMBALLAGE DE BOBINES**

[72] ROBERT, ADRIAN, SE

[72] JARTE, PETTER, SE

[72] FORSSBLAD, MARCUS, SE

[72] ROSENLIND, FREDRIK, SE

[72] OLSSON, KRISTOFFER, SE

[71] LAMIFLEX GROUP AB, SE

[85] 2022-10-26

[86] 2021-04-30 (PCT/EP2021/061436)

[87] (WO2021/219861)

[30] SE (2050501-2) 2020-04-30

[21] **3,181,361**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/20 (2006.01) A61K 31/506 (2006.01)**

[25] EN

[54] **ORALLY DISINTEGRATING TABLET COMPRISING AMORPHOUS SOLID DISPERSION OF NILOTINIB**

[54] **COMPRIME A DESINTEGRATION ORALE COMPRENANT UNE DISPERSION SOLIDE AMORPHE DE NILOTINIB**

[72] WERTZ, CHRISTIAN F., US

[72] MCTARSNEY, JOSEPH, US

[72] CHEN, TZEHAW, US

[72] SCANLAN, JUSTIN, US

[72] GEYEN, DAREN, US

[72] THAO, DOUA, US

[72] YANG, YIA, US

[72] RIESCHL, SARAH M., US

[72] SHI, LIMIN, US

[71] NANOCOPOEIA, LLC, US

[85] 2022-10-26

[86] 2021-04-30 (PCT/US2021/030154)

[87] (WO2021/222739)

[30] US (63/018,213) 2020-04-30

[30] US (63/067,064) 2020-08-18

[30] US (63/122,751) 2020-12-08

[21] **3,181,362**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **SOLUBLE TORS AND FUSIONS TO ANTI-CD3 RECOGNISING KRAS G12D FOR THE TREATMENT OF CANCER**

[54] **TOR SOLUBLES ET FUSIONS A KRAS DE RECONNAISSANCE ANTI-CD3 G12D PERMETTANT LE TRAITEMENT DU CANCER**

[72] CHILLAKURI, CHANDRAMOULI, GB

[72] POOLE, ANDREW, GB

[72] BAILEY, SARAH, GB

[71] IMMUNOCORE LIMITED, GB

[85] 2022-10-26

[86] 2021-05-04 (PCT/EP2021/061731)

[87] (WO2021/224261)

[30] GB (2006629.6) 2020-05-05

[21] **3,181,363**
[13] A1

[51] **Int.Cl. B26B 21/40 (2006.01)**

[25] EN

[54] **EXFOLIATION BAR FOR SHAVING RAZOR**

[54] **BARRE D'EXFOLIATION POUR RASOIR**

[72] LETTENBERGER, NEIL DUSTIN, US

[71] THE GILLETTE COMPANY LLC, US

[85] 2022-10-26

[86] 2021-05-19 (PCT/US2021/033044)

[87] (WO2021/236699)

[30] US (63/027,376) 2020-05-20

[21] **3,181,364**
[13] A1

[51] **Int.Cl. C07H 1/00 (2006.01) C07H 21/00 (2006.01) C07H 21/02 (2006.01) G01N 27/00 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF OLIGONUCLEOTIDES USING MODIFIED OXIDATION PROTOCOL**

[54] **PROCEDE DE PREPARATION D'OLIGONUCLEOTIDES FAISANT APPEL A UN PROTOCOLE D'OXYDATION MODIFIE**

[72] FETTES, ALEC, CH

[72] GEISER, ACHIM, CH

[72] JAITZ, LEONHARD, CH

[71] F. HOFFMAN-LA ROCHE AG, CH

[85] 2022-10-26

[86] 2021-07-07 (PCT/EP2021/068832)

[87] (WO2022/008594)

[30] EP (20184839.7) 2020-07-09

[21] **3,181,365**
[13] A1

[51] **Int.Cl. G01M 99/00 (2011.01) G01K 7/36 (2006.01)**

[25] EN

[54] **CASCADED HIGH-ENERGY EARTHQUAKE-FIRE COUPLED TEST SYSTEM**

[54] **SYSTEME DE TEST DE COUPLAGES SEISME-INCENDIE A HAUTE ENERGIE EN CASCADE**

[72] CHEN, WEI, CN

[72] YE, JIHONG, CN

[72] JIANG, JIAN, CN

[72] GUO, ZHEN, CN

[72] ZHAO, WUCHAO, CN

[72] LI, RUI, CN

[71] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN

[85] 2022-11-08

[86] 2022-01-28 (PCT/CN2022/074545)

[87] (3181365)

[30] CN (202110517180.0) 2021-05-12

PCT Applications Entering the National Phase

[21] **3,181,366**
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 47/007 (2012.01) E21B 43/26 (2006.01) E21B 47/12 (2012.01)**

[25] EN

[54] **WIRELESS TELEMETRY USING TOOL BODY DEFLECTION FOR OPENING A TOE SLEEVE**

[54] **TELEMESURE SANS FIL UTILISANT UNE DEVIATION DE CORPS D'OUTIL POUR OUVRIR UN MANCHON D'EMBOUT**

[72] WERKHEISER, GREGORY THOMAS, US

[72] FRIPP, MICHAEL LINLEY, US

[72] WALTON, ZACHARY WILLIAM, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2022-10-26

[86] 2020-05-28 (PCT/US2020/034857)

[87] (WO2021/242242)

[30] US (16/885,778) 2020-05-28

[21] **3,181,367**
[13] A1

[51] **Int.Cl. H04N 7/15 (2006.01) G06T 19/00 (2011.01)**

[25] EN

[54] **A WEB-BASED VIDEOCONFERENCE VIRTUAL ENVIRONMENT WITH NAVIGABLE AVATARS, AND APPLICATIONS THEREOF**

[54] **ENVIRONNEMENT VIRTUEL DE VIDEOCONFERENCE BASE SUR LE WEB AVEC AVATARS POUVANT NAVIGUER, ET SES APPLICATIONS**

[72] KROL, GERARD CORNELIS, US

[72] BRAUND, ERIK STUART, US

[71] KATMAI TECH INC., US

[85] 2022-10-26

[86] 2021-10-20 (PCT/US2021/055875)

[87] (WO2022/087147)

[30] US (17/075,338) 2020-10-20

[30] US (17/075,362) 2020-10-20

[30] US (17/075,390) 2020-10-20

[30] US (17/075,408) 2020-10-20

[30] US (17/075,428) 2020-10-20

[30] US (17/075,454) 2020-10-20

[30] US (17/198,323) 2021-03-11

[21] **3,181,368**
[13] A1

[51] **Int.Cl. C07K 14/435 (2006.01) A61K 39/00 (2006.01) A61P 37/00 (2006.01) C07K 14/00 (2006.01) C12N 9/02 (2006.01)**

[25] EN

[54] **PEPTIDES AND METHODS FOR THE TREATMENT OF MULTIPLE SCLEROSIS**

[54] **PEPTIDES ET METHODES DE TRAITEMENT DE LA SCLEROSE EN PLAQUES**

[72] SAINT-REMY, JEAN-MARIE, BE

[72] VANDER ELST, LUC, BE

[72] CARLIER, VINCENT, BE

[72] ERAK, MILOS, BE

[72] VAN RAMPENBERGH, JEAN, BE

[72] VAN MECHELEN, MARCELLE, BE

[72] WALGRAFFE, DAVID, BE

[72] GLOIRE, GEOFFREY, BE

[71] IMCYSE SA, BE

[85] 2022-10-26

[86] 2021-05-06 (PCT/EP2021/061985)

[87] (WO2021/148683)

[30] EP (20173201.3) 2020-05-06

[21] **3,181,369**
[13] A1

[51] **Int.Cl. H04W 12/08 (2021.01)**

[25] EN

[54] **SECURE REMOTE ACCESS TO HISTORICAL DATA**

[54] **ACCES A DISTANCE SECURISE A DES DONNEES HISTORIQUES**

[72] THOMAS, ANDREW S., CA

[71] REAL INNOVATIONS INTERNATIONAL LLC, CA

[85] 2022-10-26

[86] 2021-04-26 (PCT/IB2021/000274)

[87] (WO2021/220051)

[30] US (62/704,196) 2020-04-27

[30] US (63/020,298) 2020-05-05

[21] **3,181,370**
[13] A1

[51] **Int.Cl. E21B 23/01 (2006.01) E21B 34/14 (2006.01) E21B 43/10 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **EXPANDABLE LINER HANGER WITH POST-SETTING FLUID FLOW PATH**

[54] **DISPOSITIF DE SUSPENSION DE COLONNE PERDUE EXTENSIBLE AVEC TRAJET D'ECOULEMENT DE FLUIDE DE POST-REGLAGE**

[72] NEWTON, DANIEL CRAIG, AE

[72] MURDOCH, ROBERT ROSS, AE

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2022-10-26

[86] 2020-06-29 (PCT/US2020/040086)

[87] (WO2022/005445)

[30] US (16/914,918) 2020-06-29

[21] **3,181,371**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **VIRUS-SPECIFIC IMMUNE CELLS EXPRESSING CHIMERIC ANTIGEN RECEPTORS**

[54] **CELLULES IMMUNITAIRES SPECIFIQUES A UN VIRUS EXPRIMANT DES RECEPTEURS ANTIGENIQUES CHIMERIQUES**

[72] QUACH, DAVID H., US

[72] ROONEY, CLIONA M., US

[72] RAMOS, CARLOS A., US

[71] BAYLOR COLLEGE OF MEDICINE, US

[85] 2022-10-26

[86] 2021-04-27 (PCT/US2021/070459)

[87] (WO2021/222927)

[30] US (63/015,769) 2020-04-27

Demandes PCT entrant en phase nationale

[21] **3,181,372**
[13] A1

[51] **Int.Cl. A47L 9/04 (2006.01) A47L 11/40 (2006.01)**
[25] EN
[54] **CLEANING DEVICE FOR CLEANING A MECHANICAL CLEANING ASSEMBLY OF A CLEANING APPARATUS AND CLEANING SYSTEM**
[54] **DISPOSITIF DE NETTOYAGE POUR NETTOYER UN ENSEMBLE DE NETTOYAGE MECANIQUE D'UN APPAREIL DE NETTOYAGE ET SYSTEME DE NETTOYAGE**
[72] LIJMBACH, WILLEM, DE
[72] HENN, CHRISTIAN, DE
[72] STENGLIN, CHRISTIAN, DE
[71] CARL FREUDENBERG KG, DE
[85] 2022-10-26
[86] 2021-05-10 (PCT/EP2021/062280)
[87] (WO2021/239450)
[30] DE (10 2020 114 451.2) 2020-05-29

[21] **3,181,373**
[13] A1

[51] **Int.Cl. B64G 1/50 (2006.01) B64G 1/44 (2006.01) B64G 1/52 (2006.01) B64G 1/58 (2006.01) F28D 15/02 (2006.01) H01L 23/42 (2006.01)**
[25] EN
[54] **HEAT TRANSFER ASSEMBLIES WITH COMPLIANT HEAT PIPES**
[54] **ENSEMBLES TRANSFERT DE CHALEUR DOTES DE CALODUCS SOUPLES**
[72] MCKINNON, DOUGLAS V., US
[72] AMBROSE, JAY H., US
[72] CONNOR, SPENCER K., US
[72] MURRAY, BRONSON, US
[71] LOCKHEED MARTIN CORPORATION, US
[85] 2022-10-26
[86] 2021-04-07 (PCT/US2021/026155)
[87] (WO2021/207345)
[30] US (16/843,801) 2020-04-08

[21] **3,181,374**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TREATMENT AND PREVENTION OF CANCER USING VIRUS-SPECIFIC IMMUNE CELLS EXPRESSING CHIMERIC ANTIGEN RECEPTORS**
[54] **TRAITEMENT ET PREVENTION DU CANCER A L'AIDE DE CELLULES IMMUNITAIRES SPECIFIQUES AU VIRUS EXPRIMANT DES RECEPTEURS ANTIGENIQUES CHIMERIQUES**
[72] QUACH, DAVID H., US
[72] ROONEY, CLIONA M., US
[72] RAMOS, CARLOS A., US
[71] BAYLOR COLLEGE OF MEDICINE, US
[85] 2022-10-26
[86] 2021-04-27 (PCT/US2021/070460)
[87] (WO2021/222928)
[30] US (63/015,769) 2020-04-27

[21] **3,181,375**
[13] A1

[51] **Int.Cl. A01N 25/10 (2006.01) A01N 25/26 (2006.01) A01N 27/00 (2006.01) A01P 21/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DIFFERENTIAL RELEASE OF 1-METHYLCYCLOPROPENE**
[54] **COMPOSITIONS ET PROCEDES DE LIBERATION DIFFERENTIELLE DE 1-METHYLCYCLOPROPENE**
[72] WOOD, WILLARD E., US
[72] SARAGENO, JOSEPH FRANK, JR., US
[72] KEUTE, JOSEPH S., US
[72] LUNDGREN, AMANDA, US
[71] VERDANT TECHNOLOGIES, LLC, US
[85] 2022-10-26
[86] 2021-04-26 (PCT/US2021/029133)
[87] (WO2021/222089)
[30] US (16/859,399) 2020-04-27

[21] **3,181,376**
[13] A1

[51] **Int.Cl. B06B 1/06 (2006.01)**
[25] FR
[54] **ULTRASONIC IMAGING DEVICE WITH LINE AND COLUMN ADDRESSING**
[54] **DISPOSITIF D'IMAGERIE ULTRASONORE A ADRESSAGE LIGNE-COLONNE**
[72] BOULME, AUDREN, FR
[72] JEANNE, EDGARD, FR
[71] MODULEUS, FR
[85] 2022-10-27
[86] 2021-05-19 (PCT/EP2021/063218)
[87] (WO2021/239525)
[30] FR (FR2005636) 2020-05-28

[21] **3,181,377**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TREATMENT AND PREVENTION OF ALLOREACTIVITY USING VIRUS-SPECIFIC IMMUNE CELLS EXPRESSING CHIMERIC ANTIGEN RECEPTORS**
[54] **TRAITEMENT ET PREVENTION DE L'ALLOREACTIVITE A L'AIDE DE CELLULES IMMUNITAIRES SPECIFIQUES AU VIRUS EXPRIMANT DES RECEPTEURS D'ANTIGENES CHIMERIQUES**
[72] QUACH, DAVID H., US
[72] ROONEY, CLIONA M., US
[72] RAMOS, CARLOS A., US
[71] BAYLOR COLLEGE OF MEDICINE, US
[85] 2022-10-26
[86] 2021-04-27 (PCT/US2021/070461)
[87] (WO2021/222929)
[30] US (63/015,769) 2020-04-27

PCT Applications Entering the National Phase

[21] **3,181,378**
[13] A1

[51] **Int.Cl. G08B 13/14 (2006.01)**
[25] EN
[54] **PRODUCT IDENTIFICATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'IDENTIFICATION DE PRODUIT**
[72] LI, XUEJUN, US
[72] SEROCK, YONG JIN, US
[72] LAU, CHEUK CHI, US
[71] PEPSICO, INC., US
[85] 2022-10-27
[86] 2021-03-18 (PCT/US2021/022915)
[87] (WO2021/221810)
[30] US (16/864,676) 2020-05-01

[21] **3,181,379**
[13] A1

[51] **Int.Cl. A01N 3/00 (2006.01) A01N 27/00 (2006.01) A01N 43/16 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DIFFERENTIAL RELEASE OF 1-METHYLCYCLOPROPENE**
[54] **COMPOSITIONS ET PROCEDES DE LIBERATION DIFFERENTIELLE DE 1-METHYLCYCLOPROPENE**
[72] LUNDGREN, AMANDA, US
[71] VERDANT TECHNOLOGIES, LLC, US
[85] 2022-10-26
[86] 2021-04-26 (PCT/US2021/029148)
[87] (WO2021/222096)
[30] US (16/859,399) 2020-04-27
[30] US (17/232,710) 2021-04-16

[21] **3,181,380**
[13] A1

[51] **Int.Cl. G01S 13/02 (2006.01) H04B 10/70 (2013.01) H04B 10/80 (2013.01) A61B 5/021 (2006.01) A61B 5/024 (2006.01) A61B 5/08 (2006.01) G01S 7/00 (2006.01) G01S 7/28 (2006.01) G01S 7/292 (2006.01) G01S 13/22 (2006.01) G01S 13/26 (2006.01) G01S 13/90 (2006.01) G01S 17/88 (2006.01)**
[25] EN
[54] **A RADAR SYSTEM HAVING A PHOTONICS-BASED SIGNAL GENERATOR**
[54] **SYSTEME RADAR AYANT UN GENERATEUR DE SIGNAL BASE SUR LA PHOTONIQUE**
[72] ZHANG, ZIQIAN, AU
[72] LIU, YANG, AU
[72] EGGLETON, BENJAMIN JOHN, AU
[71] THE UNIVERISTY OF SYDNEY, AU
[85] 2022-10-27
[86] 2021-04-30 (PCT/AU2021/050396)
[87] (WO2021/217216)
[30] AU (2020901389) 2020-05-01

[21] **3,181,381**
[13] A1

[51] **Int.Cl. C09B 67/02 (2006.01) C07D 471/16 (2006.01) C09B 5/62 (2006.01) G01N 21/78 (2006.01)**
[25] EN
[54] **ELECTRONICALLY ACTIVE, SOLVENT RESISTANT ORGANIC FILMS PROCESSED FROM ALCOHOL OR AQUEOUS MEDIA**
[54] **FILMS ORGANIQUES ELECTRONIQUEMENT ACTIFS, RESISTANTS AUX SOLVANTS, TRAITES A PARTIR DE MILIEUX ALCOOLIQUES OU AQUEUX**
[72] HARDING, CAYLEY, CA
[72] WELCH, GREGORY C., CA
[71] UTI LIMITED PARTNERSHIP, CA
[85] 2022-10-27
[86] 2021-04-30 (PCT/CA2021/050603)
[87] (WO2021/217271)
[30] US (63/019,012) 2020-05-01

[21] **3,181,382**
[13] A1

[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/5377 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ATR INHIBITORS FOR THE TREATMENT OF CANCER**
[54] **INHIBITEURS D'ATR POUR LE TRAITEMENT DU CANCER**
[72] SMITH, SIMON ANDREW, GB
[72] DEAN, EMMA JANE, GB
[72] CLACK, GLEN, GB
[72] LEE, JEEYUN, KR
[71] ASTRAZENECA AB, SE
[85] 2022-10-27
[86] 2021-05-10 (PCT/EP2021/062307)
[87] (WO2021/228758)
[30] US (63/022,730) 2020-05-11
[30] US (63/166,291) 2021-03-26

[21] **3,181,383**
[13] A1

[51] **Int.Cl. E04F 13/08 (2006.01) B32B 3/06 (2006.01)**
[25] EN
[54] **INSULATION BOARDS WITH INTERLOCKING SHIPLAP EDGES**
[54] **PANNEAUX ISOLANTS A BORDS A FEUILLURE EMBOITABLES**
[72] BUDINSCAK, JOHN F., JR., US
[72] BOLLINGER, JASON E., US
[72] RAVENSCROFT, NIGEL W., US
[72] CAPUTO, DAVID, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[85] 2022-10-27
[86] 2021-03-29 (PCT/US2021/024553)
[87] (WO2021/225715)
[30] US (63/020,463) 2020-05-05

Demandes PCT entrant en phase nationale

[21] **3,181,384**
[13] A1

[51] **Int.Cl. B01J 20/26 (2006.01) A61K 36/185 (2006.01) C08F 2/44 (2006.01) C08J 9/26 (2006.01) C08L 25/08 (2006.01) C08L 33/00 (2006.01) C08F 212/08 (2006.01) C08F 212/36 (2006.01) C08F 220/02 (2006.01)**

[25] EN
[54] **IMPRINTED POLYMERS AND METHODS FOR THEIR USE**
[54] **POLYMERES A EMPREINTE ET PROCEDES POUR LEUR UTILISATION**
[72] KUMAR, SUJAY, NZ
[72] LOW, AARON WAI KIT, NZ
[72] MCELROY, AMBER HOPE FELICITY, NZ
[72] YU, MIAO, NZ
[71] LIGAR LIMITED PARTNERSHIP, NZ
[85] 2022-10-26
[86] 2021-04-29 (PCT/IB2021/053562)
[87] (WO2021/220208)
[30] NZ (763976) 2020-04-29

[21] **3,181,385**
[13] A1

[51] **Int.Cl. A62D 1/00 (2006.01) C12P 1/02 (2006.01)**

[25] EN
[54] **NON-TOXIC FIRE EXTINGUISHING COMPOSITIONS, DEVICES AND METHODS OF USING SAME**
[54] **COMPOSITIONS D'EXTINCTION D'INCENDIE NON TOXIQUES, DISPOSITIFS ET PROCEDES D'UTILISATION DE CEUX-CI**
[72] DALE, PARKER D., US
[72] JOHNSTON, JAY, US
[71] NEOZYME INTERNATIONAL, INC., US
[85] 2022-10-26
[86] 2021-04-26 (PCT/US2021/029240)
[87] (WO2021/222141)
[30] US (63/015,640) 2020-04-26

[21] **3,181,386**
[13] A1

[51] **Int.Cl. H03K 19/00 (2006.01) H03K 19/0185 (2006.01)**

[25] FR
[54] **CIRCUIT FOR CONTROLLING AN ULTRASONIC TRANSDUCER**
[54] **CIRCUIT DE CONTROLE D'UN TRANSDUCTEUR ULTRASONORE**
[72] CHATAIN, PASCAL, FR
[71] MODULEUS, FR
[85] 2022-10-27
[86] 2021-05-04 (PCT/EP2021/061706)
[87] (WO2021/228626)
[30] FR (FR2004714) 2020-05-13

[21] **3,181,387**
[13] A1

[51] **Int.Cl. C07C 5/48 (2006.01) C07C 11/04 (2006.01) C07C 51/15 (2006.01) C07C 53/08 (2006.01)**

[25] EN
[54] **LIMITING ACETIC ACID PRODUCTION IN ETHANE ODH PROCESS**
[54] **LIMITATION DE LA PRODUCTION D'ACIDE ACETIQUE DANS UN PROCEDE DE DESHYDROGENATION OXYDANTE DE L'ETHANE**
[72] OLAYIWOLA, BOLAJI, CA
[72] GOODARZANIA, SHAHIN, CA
[72] SIMANZHENKOV, VASILY, CA
[72] AIFFA, MOHAMED, CA
[72] SERHAL, KAMAL, CA
[72] LADD, ROBERT, CA
[72] GENT, DAVID, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2022-10-26
[86] 2021-05-25 (PCT/IB2021/054554)
[87] (WO2021/250495)

[21] **3,181,388**
[13] A1

[51] **Int.Cl. A61K 31/5415 (2006.01) A61K 33/00 (2006.01) A61P 7/00 (2006.01) A61P 11/00 (2006.01) A61P 43/00 (2006.01)**

[25] EN
[54] **METHYLTHIONIUM COMPOUNDS FOR USE IN THE TREATMENT OF HYPOXEMIA**
[54] **COMPOSES METHYLTHIONIUM DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE L'HYPOXEMIE**
[72] WISCHIK, CLAUDE MICHEL, GB
[72] ARASTOO, MOHAMMAD, GB
[72] MAZANETZ, MICHAEL PHILIP, GB
[71] WISTA LABORATORIES LTD., SG
[85] 2022-10-27
[86] 2021-04-30 (PCT/EP2021/061485)
[87] (WO2021/224146)
[30] GB (2006659.3) 2020-05-05
[30] GB (2016957.9) 2020-10-26

[21] **3,181,389**
[13] A1

[51] **Int.Cl. H02J 3/00 (2006.01) C12N 15/113 (2010.01) C12Q 1/6883 (2018.01) C12Q 1/6886 (2018.01) C12N 15/11 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **RNA MARKERS AND METHODS FOR IDENTIFYING COLON CELL PROLIFERATIVE DISORDERS**
[54] **MARQUEURS D'ARN ET METHODES D'IDENTIFICATION DE TROUBLES PROLIFERATIFS DE CELLULES DU COLON**
[72] ARMSTRONG, FRANCES, US
[72] MAHAJAN, SHIVANI, US
[72] HARVEY, ADAM, US
[72] TEWARI, ANEESHA, US
[72] WEINBERG, DAVID, US
[72] EATON, JESSE, US
[71] FREENOME HOLDINGS, INC., US
[85] 2022-10-26
[86] 2021-04-27 (PCT/US2021/029361)
[87] (WO2021/222220)
[30] US (63/017,552) 2020-04-29
[30] US (63/024,875) 2020-05-14

PCT Applications Entering the National Phase

[21] **3,181,390**
[13] A1

[51] **Int.Cl. H01Q 1/28 (2006.01) H01Q 15/14 (2006.01) H01Q 15/16 (2006.01) H01Q 19/18 (2006.01) H01Q 19/19 (2006.01)**

[25] EN

[54] **HOSTED, COMPACT, LARGE-APERTURE, MULTI-REFLECTOR ANTENNA SYSTEM DEPLOYABLE WITH HIGH-DISSIPATION FEED**

[54] **SYSTEME D'ANTENNES HEBERGE, COMPACT, A ORIFICE LARGE, A REFLECTEURS MULTIPLES POUVANT ETRE MIS EN OEUVRE AVEC UNE ALIMENTATION A DISSIPATION ELEVEE**

[72] MURRAY, BRONSON, US

[72] CONNOR, SPENCER KEITH, US

[71] LOCKHEED MARTIN CORPORATION, US

[85] 2022-10-27

[86] 2021-04-02 (PCT/US2021/025586)

[87] (WO2021/203004)

[30] US (63/005,135) 2020-04-03

[30] US (17/148,474) 2021-01-13

[21] **3,181,391**
[13] A1

[51] **Int.Cl. A61K 31/4706 (2006.01) A61K 31/5415 (2006.01) A61K 45/06 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **METHYLTHONIUM COMPOUNDS FOR USE IN THE TREATMENT OF COVID-19**

[54] **COMPOSES DE METHYLTHONIUM DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE LA COVID-19**

[72] WISCHIK, CLAUDE MICHEL, GB

[72] ARASTOO, MOHAMMAD, GB

[72] MAZANETZ, MICHAEL PHILIP, GB

[71] WISTA LABORATORIES LTD., SG

[85] 2022-10-27

[86] 2021-04-30 (PCT/EP2021/061481)

[87] (WO2021/224145)

[30] GB (2006659.3) 2020-05-05

[21] **3,181,392**
[13] A1

[51] **Int.Cl. F21V 13/04 (2006.01) F21K 9/62 (2016.01) F21S 9/02 (2006.01) F21V 33/00 (2006.01) G04G 9/04 (2006.01)**

[25] EN

[54] **DEVICES USING GLASS BOWS**

[54] **DISPOSITIFS UTILISANT DES EFFETS D'ARC EN CIEL DU VERRE**

[72] KNUTSON, LARA, US

[71] KNUTSON, LARA, US

[85] 2022-10-27

[86] 2021-04-20 (PCT/US2021/028096)

[87] (WO2021/221950)

[30] US (16/861,042) 2020-04-28

[30] US (17/166,331) 2021-02-03

[21] **3,181,393**
[13] A1

[51] **Int.Cl. A61K 31/5415 (2006.01) A61K 45/06 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **METHYLTHONIUM COMPOUNDS FOR USE IN THE TREATMENT OF COVID-19**

[54] **COMPOSES METHYLTHONIUM DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE LA COVID-19**

[72] WISCHIK, CLAUDE MICHEL, GB

[72] ARASTOO, MOHAMMAD, GB

[72] MAZANETZ, MICHAEL PHILIP, GB

[71] WISTA LABORATORIES LTD., SG

[85] 2022-10-27

[86] 2021-04-30 (PCT/EP2021/061480)

[87] (WO2021/224144)

[30] GB (2006659.3) 2020-05-05

[30] GB (2016955.3) 2020-10-26

[21] **3,181,394**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/28 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **CHIMERIC ANTIGEN RECEPTORS TARGETING CD127 AND USE THEREOF**

[54] **RECEPTEUR ANTIGENIQUE CHIMERIQUE CIBLANT CD127 ET UTILISATION ASSOCIEE**

[72] POIRIER, NICOLAS, FR

[72] ADUSUMILLI, PRASAD S., US

[71] MEMORIAL SLOAN-KETTERING CANCER CENTER, US

[71] OSE IMMUNOTHERAPEUTICS, FR

[85] 2022-10-26

[86] 2021-04-27 (PCT/US2021/029372)

[87] (WO2021/222227)

[30] US (63/015,923) 2020-04-27

[21] **3,181,397**
[13] A1

[51] **Int.Cl. A01N 35/02 (2006.01) A01N 43/16 (2006.01) C02F 1/50 (2006.01) C02F 3/34 (2006.01)**

[25] EN

[54] **A COMPOSITION AND METHOD FOR THE REMOVAL OF BIOFILM**

[54] **COMPOSITION ET PROCEDE D'ELIMINATION DE BIOFILM**

[72] TRIVEDI, RISHI, US

[72] YIN, BEI, US

[71] MC (US) 3 LLC, US

[85] 2022-10-27

[86] 2021-04-23 (PCT/US2021/028741)

[87] (WO2021/222003)

[30] US (63/017,415) 2020-04-29

[21] **3,181,398**
[13] A1

[51] **Int.Cl. B06B 1/02 (2006.01) B06B 1/06 (2006.01) G01S 7/52 (2006.01) G01S 15/89 (2006.01)**

[25] FR

[54] **ULTRASOUND IMAGING DEVICE**

[54] **DISPOSITIF D'IMAGERIE ULTRASONORE**

[72] CONSTANS, CHARLOTTE, FR

[72] BAILLY, ADRIEN, FR

[71] MODULEUS, FR

[85] 2022-10-26

[86] 2021-04-16 (PCT/EP2021/059893)

[87] (WO2021/219402)

[30] FR (2004326) 2020-04-30

Demandes PCT entrant en phase nationale

[21] **3,181,399**
[13] A1

[51] **Int.Cl. A61K 31/454 (2006.01) A61K 35/17 (2015.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATION OF BCMA-DIRECTED T CELL THERAPY AND AN IMMUNOMODULATORY COMPOUND**

[54] **COMBINAISON D'UNE THERAPIE A LYMPHOCYTES T DE CIBLAGE BCMA ET D'UN COMPOSE IMMUNOMODULATEUR**

[72] PORTS, MICHAEL, US

[72] BATUREVYCH, OLEKSANDR, US

[72] SONI, NEHA, US

[72] WILLIFORD, JOHN-MICHAEL, US

[72] WORKS, MELISSA, US

[71] JUNO THERAPEUTICS, INC., US

[85] 2022-10-26

[86] 2021-04-27 (PCT/US2021/029503)

[87] (WO2021/222330)

[30] US (63/016,983) 2020-04-28

[21] **3,181,400**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61P 25/28 (2006.01) C07H 21/00 (2006.01)**

[25] EN

[54] **APOLIPOPROTEIN E (APOE) IRNA AGENT COMPOSITIONS AND METHODS OF USE THEREOF**

[54] **COMPOSITIONS D'AGENT D'ARNI DE L'APOLIPOPROTEINE E (APOE) ET LEURS PROCEDES D'UTILISATION**

[72] BOSTWICK, BRET LEE, US

[72] PENG, HAIYAN, US

[72] MCININCH, JAMES D., US

[72] CASTORENO, ADAM, US

[72] SCHLEGEL, MARK K., US

[71] ALNYLAM PHARMACEUTICALS, INC., US

[85] 2022-10-27

[86] 2021-04-26 (PCT/US2021/029081)

[87] (WO2021/222065)

[21] **3,181,402**
[13] A1

[51] **Int.Cl. A01B 5/14 (2006.01) A01B 9/00 (2006.01) A01B 13/08 (2006.01) A01B 15/10 (2006.01)**

[25] EN

[54] **PLOUGH MODULE AND PLOUGH DEVICE COMPRISING AT LEAST ONE PLOUGH MODULE**

[54] **MODULE DE CHARRUE ET DISPOSITIF DE CHARRUE COMPRENANT AU MOINS UN MODULE DE CHARRUE**

[72] HUBER, FRANZ-FERDINAND, AT

[71] HUBER SOIL SOLUTION GMBH, AT

[85] 2022-10-27

[86] 2021-04-27 (PCT/EP2021/060937)

[87] (WO2021/219607)

[30] DE (10 2020 205 428.2) 2020-04-29

[21] **3,181,403**
[13] A1

[51] **Int.Cl. A61K 31/444 (2006.01) A61K 31/395 (2006.01) A61P 7/06 (2006.01)**

[25] EN

[54] **HYPOXIA-INDUCIBLE FACTOR PROLYL HYDROXYLASE INHIBITORS FOR TREATING AGING-RELATED CONDITIONS**

[54] **INHIBITEURS DE LA PROLYL HYDROXYLASE DU FACTEUR INDUCTIBLE PAR L'HYPOXIE POUR LE TRAITEMENT D'ETATS LIES AU VIEILLISSEMENT**

[72] MORGEN, ERIC KIM, US

[72] FORTNEY, KRISTEN PATRICIA, US

[72] LEONG, PENG, US

[72] HO, ANDREW JARAI, US

[72] REBO, JUSTIN, US

[72] PAN, YONG, US

[71] BIOAGE LABS, INC., US

[85] 2022-10-26

[86] 2021-04-28 (PCT/US2021/029669)

[87] (WO2021/222424)

[30] US (63/017,578) 2020-04-29

[30] US (63/062,259) 2020-08-06

[30] US (63/127,767) 2020-12-18

[30] US (63/136,138) 2021-01-11

[30] US (63/153,356) 2021-02-24

[21] **3,181,405**
[13] A1

[51] **Int.Cl. B60L 50/50 (2019.01) B60L 50/51 (2019.01) H02H 3/16 (2006.01) H02H 3/26 (2006.01) H02H 3/48 (2006.01)**

[25] EN

[54] **INDEPENDENT GROUND FAULT DETECTION USING CURRENT TRANSFORMER**

[54] **DETECTION DE DEFAUT DE MISE A LA TERRE INDEPENDANTE A L'AIDE D'UN TRANSFORMATEUR DE COURANT**

[72] VOVOS, ROBERT J., US

[72] CARRUTHERS, PETER A., US

[72] CLARK, ANDREW S., US

[72] LYONS, ARTHUR P., US

[72] WEBSTER, BENJAMIN T., US

[71] BAE SYSTEMS CONTROLS INC., US

[85] 2022-10-27

[86] 2021-04-27 (PCT/US2021/029281)

[87] (WO2021/222162)

[30] US (16/861,375) 2020-04-29

[21] **3,181,406**
[13] A1

[51] **Int.Cl. G01N 30/88 (2006.01) G01N 30/72 (2006.01)**

[25] EN

[54] **METHOD FOR IDENTIFICATION AND QUANTIFICATION OF POLYSACCHARIDES IN COMPLEX GLYCOCONJUGATE COMPOSITIONS**

[54] **PROCEDE D'IDENTIFICATION ET DE QUANTIFICATION DE POLYSACCHARIDES DANS DES COMPOSITIONS GLYCOCONJUGUEES COMPLEXES**

[72] FLUTSCH, ANDREAS, CH

[72] AL-KAABI, ALI, CH

[71] JANSSEN PHARMACEUTICALS, INC., US

[85] 2022-10-27

[86] 2021-04-26 (PCT/EP2021/060797)

[87] (WO2021/219530)

[30] EP (20171823.6) 2020-04-28

[30] EP (21154080.2) 2021-01-28

PCT Applications Entering the National Phase

[21] **3,181,407**
[13] A1

[51] **Int.Cl. A61M 37/00 (2006.01) C12N 5/079 (2010.01) C12N 15/63 (2006.01)**

[25] EN

[54] **NEUROGENIC TISSUE NANOTRANSFECTION IN THE MANAGEMENT OF CUTANEOUS DIABETIC POLYNEUROPATHY**

[54] **NANOTRANSFECTION DE TISSU NEUROGENE DANS LA GESTION DE LA POLYNEUROPATHIE DIABETIQUE CUTANEE**

[72] SEN, CHANDAN K., US

[72] GHATAK, SUBHADIP, US

[72] ROY, SASHWATI, US

[72] KHANNA, SAVITA, US

[71] THE TRUSTEES OF INDIANA UNIVERSITY, US

[85] 2022-10-26

[86] 2021-04-29 (PCT/US2021/029780)

[87] (WO2021/222491)

[30] US (63/018,900) 2020-05-01

[21] **3,181,408**
[13] A1

[51] **Int.Cl. A01H 1/06 (2006.01) A01H 6/28 (2018.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR TREATMENT OF PLANTS FOR SYNTHESIS OF COMPOUNDS THEREFROM**

[54] **SYSTEME ET PROCEDE DE TRAITEMENT DE PLANTES POUR LA SYNTHESE DE COMPOSES ISSUS DE CELLES-CI**

[72] MANCOSKY, DOUGLAS, US

[72] MACKAY, JOHN, US

[71] HYDRO DYNAMICS, INC., US

[85] 2022-10-27

[86] 2021-04-28 (PCT/US2021/029597)

[87] (WO2021/222380)

[21] **3,181,409**
[13] A1

[51] **Int.Cl. C08F 2/00 (2006.01) C08L 23/08 (2006.01)**

[25] EN

[54] **LINEAR HIGH-DENSITY ETHYLENE INTERPOLYMER COMPOSITIONS**

[54] **COMPOSITIONS INTERPOLYMERES D'ETHYLENE LINEAIRE HAUTE DENSITE**

[72] BELLEHUMEUR, CELINE, CA

[72] MOLLOY, BRIAN, CA

[72] ARNOULD, GILBERT, CA

[72] HAY, HENRY, CA

[72] LI, TRACY LEANNE, CA

[71] NOVA CHEMICALS CORPORATION, CA

[85] 2022-10-27

[86] 2021-06-04 (PCT/IB2021/054917)

[87] (WO2021/250520)

[30] US (63/037,754) 2020-06-11

[21] **3,181,412**
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01)**

[25] EN

[54] **DEVICES TO SUPPORT AND POSITION AN INTRAOCULAR LENS WITHIN THE EYE AND METHODS OF USE**

[54] **DISPOSITIFS POUR SUPPORTER ET POSITIONNER UNE LENTILLE INTRAOCULAIRE A L'INTERIEUR DE L'OEIL ET PROCEDES D'UTILISATION**

[72] CLARKE, MATTHEW, US

[72] NASERI, AYMAN, US

[72] BRODIE, FRANK, US

[72] DE JUAN, EUGENE, JR., US

[71] LONG BRIDGE MEDICAL, INC., US

[85] 2022-10-27

[86] 2021-04-28 (PCT/US2021/029605)

[87] (WO2021/222383)

[30] US (63/017,423) 2020-04-29

[30] US (63/053,450) 2020-07-17

[30] US (16/988,519) 2020-08-07

[21] **3,181,413**
[13] A1

[51] **Int.Cl. C12N 5/0797 (2010.01) A61P 25/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF PROMOTING MYELINATION**

[54] **COMPOSITIONS ET METHODES POUR FAVORISER LA MYELINISATION**

[72] HE, ZHIGANG, US

[72] WANG, JING, US

[72] HE, XUELIAN, US

[71] THE CHILDREN'S MEDICAL CENTER CORPORATION, US

[85] 2022-10-26

[86] 2021-04-29 (PCT/US2021/029806)

[87] (WO2021/222507)

[30] US (63/018,939) 2020-05-01

[21] **3,181,414**
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A61K 47/69 (2017.01) A61K 31/404 (2006.01)**

[25] EN

[54] **FLUORESCENT DYE IN TERNARY COMPLEX**

[54] **COLORANT FLUORESCENT DANS UN COMPLEXE TERNAIRE**

[72] FELDSCHUH, JONATHAN, US

[72] ANZELLOTTI, ATILIO, US

[72] JORDAN, NANCY TOMMYE, US

[72] MULLER, BOYCE LEE, US

[72] ZIMMER, ROBIN D., US

[72] CABLE, ADAM MICHAEL, US

[71] DAXOR CORP., US

[85] 2022-10-26

[86] 2021-04-29 (PCT/US2021/029906)

[87] (WO2021/222575)

[30] US (63/017,761) 2020-04-30

Demandes PCT entrant en phase nationale

[21] **3,181,415**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **AZALACTAM COMPOUNDS AS HPK1 INHIBITORS**

[54] **COMPOSES D'AZALACTAME UTILISE EN TANT QU'INHIBITEURS DE HPK1**

[72] BARBER, JOYANN, US
[72] CHO-SCHULTZ, SUJIN, US
[72] DEL BEL, MATTHEW L, US
[72] GALLEGO, REBECCA ANNE, US
[72] HE, MINGYING, US
[72] JALAI, MEHRAN, US
[72] KANIA, ROBERT STEVEN, US
[72] MCTIGUE, MICHELE ANN, US
[72] NAIR, SAJIV KRISHNAN, US
[72] SCHMITT, ANNE-MARIE DECHERT, US

[72] TUTTLE, JAMISON BRYCE, US
[72] ZHOU, DAHUI, US
[72] ZHOU, RU, US
[71] PFIZER INC., US
[85] 2022-10-27
[86] 2021-04-28 (PCT/IB2021/053522)
[87] (WO2021/220185)
[30] US (63/018,689) 2020-05-01

[21] **3,181,416**
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **COMPOSITIONS, METHODS, AND SYSTEMS FOR DETECTING METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS**

[54] **COMPOSITIONS, PROCEDES ET SYSTEMES DE DETECTION DE STAPHYLOCOCCUS AUREUS RESISTANT A LA METICILLINE**

[72] BROWN, MATTHEW J., US
[72] NGUYEN, MINH MINDY BAO, US
[72] ERICKSON, STEPHEN, US
[72] GIL, JOSE, US
[71] LABORATORY CORPORATION OF AMERICA HOLDINGS, US
[85] 2022-10-26
[86] 2021-04-30 (PCT/US2021/030127)
[87] (WO2021/222723)
[30] US (63/018,081) 2020-04-30

[21] **3,181,417**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01)**

[25] EN

[54] **ANTI-CD26 PROTEINS AND USES THEREOF**

[54] **PROTEINES ANTI-CD26 ET LEURS UTILISATIONS**

[72] WONG, HING C., US
[72] LIU, BAI, US
[72] KONG, LIN, US
[72] ZHU, XIAOYUN, US
[72] SPANOUDIS, CATHERINE, US
[71] HCW BIOLOGICS, INC., US
[85] 2022-10-27
[86] 2021-04-29 (PCT/US2021/029920)
[87] (WO2021/222587)
[30] US (63/017,467) 2020-04-29

[21] **3,181,418**
[13] A1

[51] **Int.Cl. C12Q 1/6883 (2018.01)**

[25] EN

[54] **METHODS OF IDENTIFYING MODULATORS OF THE IL-17 PATHWAY**

[54] **PROCEDES D'IDENTIFICATION DE MODULATEURS DE LA VOIE DE L'IL-17**

[72] XUE, XIAOHUA, US
[72] BLAIN, KATHERINE Y., US
[72] DE LEON-TABALDO, AIMEE ROSE, US
[72] FOURIE, ANNE M., US
[72] LIU, XUEJUN, US
[72] LUNA-ROMAN, ROSA, US
[72] RODRIGUEZ, JR., MICHAEL ANGELO, US
[72] GOLDBERG, STEVEN, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-10-27
[86] 2021-04-28 (PCT/IB2021/053516)
[87] (WO2021/220182)
[30] US (63/017,960) 2020-04-30

[21] **3,181,419**
[13] A1

[51] **Int.Cl. C07D 311/58 (2006.01) C07D 311/70 (2006.01) C07D 311/80 (2006.01)**

[25] EN

[54] **METHODS OF PREPARING SYNTHETIC CANNABICHRMENE AND CANNABICITRAN AND DERIVATIVES THEREOF**

[54] **PROCEDES DE PREPARATION DE CANNABICHRMENE ET DE CANNABICITRAN SYNTHETIQUES ET DE DERIVES DE CEUX-CI**

[72] ZHANG, WEN-CHUN, US
[72] HONEYCUTT, AARON P., US
[71] PURISYS, LLC, US
[85] 2022-10-27
[86] 2021-04-29 (PCT/US2021/029952)
[87] (WO2021/222609)
[30] US (63/019,063) 2020-05-01

[21] **3,181,420**
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01) C12Q 1/6886 (2018.01) C12Q 1/00 (2006.01) G01N 1/30 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **CYTOPATHOLOGICAL STAINING COLORATION CYTOPATHOLOGIQUE**

[72] CHU, WENJIANG, US
[72] WANG, JIAN (DECEASED), US
[71] CYTOBAY INC., US
[85] 2022-10-27
[86] 2021-05-21 (PCT/US2021/033672)
[87] (WO2021/242637)
[30] CN (202010467313.3) 2020-05-28
[30] CN (202010468262.6) 2020-05-28
[30] CN (PCT/CN2020/120070) 2020-10-10
[30] CN (PCT/CN2020/120071) 2020-10-10
[30] US (63/091,633) 2020-10-14

PCT Applications Entering the National Phase

[21] **3,181,421**
[13] A1

[51] **Int.Cl. A61K 8/60 (2006.01) A61K 8/73 (2006.01) A61Q 5/02 (2006.01)**
[25] EN
[54] **SHAMPOO COMPOSITION COMPRISING DECYL GLUCOSIDE AND A CATIONIC GUAR**
[54] **COMPOSITION DE SHAMPOOING COMPRENANT DU DECYL GLUCOSIDE ET DU GUAR CATIONIQUE**
[72] BALLHAUS, LAUREN ELIZABETH, US
[72] ZHAO, JEAN JIANQIN, US
[72] MAZZEI, NICOLE MARIE, US
[72] HUTTON, HOWARD DAVID, III, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-10-26
[86] 2021-05-12 (PCT/US2021/031890)
[87] (WO2021/231509)
[30] US (63/025,445) 2020-05-15

[21] **3,181,423**
[13] A1

[51] **Int.Cl. A61B 17/12 (2006.01) A61B 17/00 (2006.01)**
[25] EN
[54] **DEVICE FOR USE WITH BODY TISSUE SPHINCTERS**
[54] **DISPOSITIF DESTINE A ETRE UTILISE AVEC DES SPHINCTERS DE TISSU CORPOREL**
[72] BERG, JAMES GODFREY, US
[72] BERG, THOMAS GODFREY, US
[71] JT GODFREY, LLC, US
[85] 2022-10-26
[86] 2021-05-12 (PCT/US2021/031922)
[87] (WO2021/231529)
[30] US (15/931,221) 2020-05-13

[21] **3,181,425**
[13] A1

[51] **Int.Cl. F25D 16/00 (2006.01)**
[25] EN
[54] **STORAGE SYSTEM AND METHOD FOR STORING AND TRANSPORTING MEDICAMENT**
[54] **SYSTEME DE STOCKAGE ET DE PROCEDE DE STOCKAGE ET DE TRANSPORT DE MEDICAMENT**
[72] CHERN, REY T., US
[72] MEI, FANGHUA, US
[72] BARBEDETTE, LOIC, US
[71] AMGEN INC., US
[85] 2022-10-26
[86] 2021-05-17 (PCT/US2021/032668)
[87] (WO2021/236477)
[30] US (63/028,875) 2020-05-22

[21] **3,181,427**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/17 (2006.01) A61P 35/00 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **MITOCHONDRIAL-DERIVED PEPTIDES AND ANALOGS THEREOF FOR USE AS A THERAPY FOR AGE-RELATED DISEASES INCLUDING CANCER**
[54] **PEPTIDES DERIVES DE MITOCHONDRIES ET LEURS ANALOGUES DESTINES A ETRE UTILISES EN TANT QUE THERAPIE POUR DES MALADIES LIEES A L'AGE Y COMPRIS LE CANCER**
[72] COHEN, PINCHAS, US
[72] YEN, KELVIN, US
[72] KIM, SU-JEONG, US
[71] UNIVERSITY OF SOUTHERN CALIFORNIA, US
[85] 2022-10-27
[86] 2021-05-14 (PCT/US2021/032641)
[87] (WO2021/231988)
[30] US (63/025,495) 2020-05-15

[21] **3,181,436**
[13] A1

[51] **Int.Cl. F03D 7/04 (2006.01)**
[25] EN
[54] **WIND TURBINE GENERATOR, AND MINIMUM ROTATIONAL SPEED CONTROL METHOD AND DEVICE THEREFOR**
[54] **GENERATEUR D'EOLIENNE, ET PROCEDE ET DISPOSITIF DE COMMANDE DE VITESSE DE ROTATION MINIMALE ASSOCIES**
[72] ZHANG, XINLI, CN
[71] BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD., CN
[85] 2022-10-27
[86] 2021-03-30 (PCT/CN2021/084047)
[87] (WO2022/001252)
[30] CN (202010597821.3) 2020-06-28

[21] **3,181,467**
[13] A1

[51] **Int.Cl. A47G 29/00 (2006.01) A47B 96/06 (2006.01) B25H 3/00 (2006.01) F16B 1/00 (2006.01)**
[25] EN
[54] **ORGANIZATIONAL SYSTEMS AND COMPONENTS**
[54] **SYSTEMES ORGANISATIONNELS ET ELEMENTS**
[72] CHUNG, HYUNG JOON, CA
[72] SCHMIDER, JOHN PAUL, CA
[72] LAM, HEATHER CHI-YING, CA
[72] KOYA, ABDUL HALEEM AHAMED, CA
[72] SPALDING, JOSEPH JEROME, US
[72] PUERTO, GABRIEL JOSE, US
[72] MORGAN, JONATHAN BARRETT, US
[72] DAUCHOT, NICHOLAS RANDOLPH, US
[72] TRACZ, MICHAEL CHRISTOPHER, US
[72] FUINA, MICHAEL JAMES, CA
[71] CANADIAN TIRE CORPORATION, LIMITED, CA
[85] 2022-10-28
[86] 2020-10-30 (PCT/CA2020/051468)
[87] (WO2021/217234)
[30] US (63/017,285) 2020-04-29

Demandes PCT entrant en phase nationale

[21] **3,181,468**
[13] A1

[51] **Int.Cl. A47G 29/14 (2006.01) E04H 1/12 (2006.01)**
[25] EN
[54] **AN APPARATUS AND SYSTEM FOR RECEIVING AND DELIVERING PARCELS FROM A DRONE**
[54] **APPAREIL ET SYSTEME DE RECEPTION ET DE LIVRAISON DE COLIS DEPUIS UN DRONE**
[72] IERADI, GIUSEPPE, CA
[71] IERADI, GIUSEPPE, CA
[85] 2022-10-28
[86] 2021-04-29 (PCT/CA2021/050594)
[87] (WO2021/217264)
[30] US (63/017,358) 2020-04-29

[21] **3,181,473**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12N 15/11 (2006.01)**
[25] EN
[54] **TUMOR DETECTION REAGENT AND KIT**
[54] **REACTIF DE DETECTION DE TUMEUR ET KIT**
[72] ZHAO, RONGSONG, CN
[72] HUANG, LONGWU, CN
[72] ZOU, HONGZHI, CN
[71] CREATIVE BIOSCIENCES (GUANGZHOU) CO., LTD., CN
[85] 2022-10-28
[86] 2020-09-29 (PCT/CN2020/118994)
[87] (WO2021/218031)
[30] CN (202010361690.9) 2020-04-30

[21] **3,181,482**
[13] A1

[51] **Int.Cl. C08F 255/02 (2006.01) C08F 222/06 (2006.01) C08F 255/04 (2006.01) H01B 3/30 (2006.01) H01B 7/02 (2006.01)**
[25] EN
[54] **POLYPROPYLENE GRAFT CONTAINING ANHYDRIDE GROUP AND PREPARATION METHOD FOR POLYPROPYLENE GRAFT**
[54] **GREFFE DE POLYPROPYLENE CONTENANT UN GROUPE ANHYDRIDE ET PROCEDE DE PREPARATION DE GREFFE DE POLYPROPYLENE**
[72] SONG, WENBO, CN
[72] HE, JINLIANG, CN
[72] YUAN, HAO, CN
[72] SHAO, QING, CN
[72] LI, QI, CN
[72] SHI, HONGWEI, CN
[72] ZHANG, QI, CN
[72] LI, JUAN, CN
[72] WANG, YUTAO, CN
[72] HU, JUN, CN
[72] ZOU, FASHENG, CN
[72] ZHOU, YAO, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] TSINGHUA UNIVERSITY, CN
[85] 2022-10-28
[86] 2020-11-09 (PCT/CN2020/127465)
[87] (WO2021/218102)
[30] CN (202010357828.8) 2020-04-29
[30] CN (202010357830.5) 2020-04-29
[30] CN (202010359066.5) 2020-04-29

[21] **3,181,532**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01) A61M 25/06 (2006.01) A61M 25/09 (2006.01)**
[25] EN
[54] **RAPIDLY INSERTABLE CENTRAL CATHETERS INCLUDING CATHETER ASSEMBLIES**
[54] **CATHETERS CENTRAUX A INSERTION RAPIDE INCLUANT DES ENSEMBLES CATHETER**
[72] HOWELL, GLADE H., US
[72] STATS, JASON R., US
[71] BARD ACCESS SYSTEMS, INC., US
[85] 2022-10-27
[86] 2021-05-20 (PCT/US2021/033443)
[87] (WO2021/236950)
[30] US (63/028,445) 2020-05-21

[21] **3,181,533**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **DEVICES, ASSAYS AND METHODS OF TESTING PREECLAMPSIA**
[54] **DISPOSITIFS, DOSAGES ET METHODES DE TEST DE PREECLAMPSIE**
[72] KARUMANCHI, S. ANANTH, US
[72] BERG, ANDERS H., US
[72] THADHANI, RAVI, US
[71] CEDARS-SINAI MEDICAL CENTER, US
[85] 2022-10-27
[86] 2021-05-18 (PCT/US2021/033012)
[87] (WO2021/236674)
[30] US (63/026,549) 2020-05-18

PCT Applications Entering the National Phase

[21] **3,181,535**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS FOR THE USE OF A B7-H3 ANTIBODY-DRUG CONJUGATE ALONE OR IN COMBINATION**

[54] **METHODES D'UTILISATION D'UN CONJUGUE ANTICORPS B7-H3-MEDICAMENT SEUL OU EN ASSOCIATION**

[72] BOHAC, GERRY CHESTER, US

[72] LOO, DERYK, US

[72] SCRIBNER, JUNIPER A., US

[72] WIGGINTON, JON MARC, US

[71] MACROGENICS, INC., US

[85] 2022-10-27

[86] 2021-05-10 (PCT/US2021/031598)

[87] (WO2021/231309)

[30] US (63/023,495) 2020-05-12

[30] US (63/180,795) 2021-04-28

[21] **3,181,536**
[13] A1

[51] **Int.Cl. A47J 31/40 (2006.01) B67D 1/00 (2006.01) B67D 1/04 (2006.01) B67D 1/08 (2006.01) B67D 1/10 (2006.01) B67D 1/12 (2006.01) B67D 1/14 (2006.01)**

[25] EN

[54] **BEVERAGE DISPENSING NOZZLE**

[54] **BUSE DE DISTRIBUTION DE BOISSON**

[72] FANTAPPIE, GIANCARLO, US

[72] JERSEY, STEVEN T., US

[71] PEPSICO, INC., US

[85] 2022-10-27

[86] 2021-05-07 (PCT/US2021/031375)

[87] (WO2021/226512)

[30] US (63/022,068) 2020-05-08

[21] **3,181,537**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **6-HETEROARYLOXY BENZIMIDAZOLES AND AZABENZIMIDAZOLES AS JAK2 INHIBITORS**

[54] **6-HETEROARYLOXY BENZIMIDAZOLES ET AZABENZIMIDAZOLES EN TANT QU'INHIBITEURS DE JAK2**

[72] MASSE, CRAIG E., US

[72] GREENWOOD, JEREMY R., US

[72] MONDAL, SAYAN, US

[72] XU, JIAYI, US

[72] GHANAKOTA, PHANI, US

[72] MCROBB, FIONA MICHELLE, US

[72] BOYLES, NICHOLAS, US

[71] AJAX THERAPEUTICS, INC., US

[85] 2022-10-27

[86] 2021-05-05 (PCT/US2021/030926)

[87] (WO2021/226261)

[30] US (63/020,645) 2020-05-06

[30] US (63/087,717) 2020-10-05

[30] US (63/130,254) 2020-12-23

[21] **3,181,538**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **CANNABINOID RECEPTOR TYPE 2 (CB2) MODULATORS AND USES THEREOF**

[54] **MODULATEURS DE RECEPTEUR CANNABINOIDE DE TYPE 2 (CB2) ET LEURS UTILISATIONS**

[72] ELZEIN, ELFATIH, US

[72] LIU, JIWEN, US

[71] TEON THERAPEUTICS, INC., US

[85] 2022-10-27

[86] 2021-05-05 (PCT/US2021/030838)

[87] (WO2021/226206)

[30] US (63/020,489) 2020-05-05

[30] US (63/054,096) 2020-07-20

[21] **3,181,541**
[13] A1

[51] **Int.Cl. A61B 5/103 (2006.01) G16H 20/30 (2018.01) A61B 5/11 (2006.01) A63B 24/00 (2006.01) A63B 26/00 (2006.01) A63B 71/06 (2006.01)**

[25] EN

[54] **SYSTEMS, DEVICES, AND METHODS FOR DETERMINING MOVEMENT VARIABILITY, ILLNESS AND INJURY PREDICTION AND RECOVERY READINESS**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE DETERMINATION DE VARIABILITE DE MOUVEMENT, DE PREDICTION DE MALADIE ET DE LESION AINSI QUE DE PREPARATION DE RECUPERATION**

[72] WAGNER, PHILLIP PATRICK, US

[71] SPARTA SOFTWARE CORPORATION, US

[85] 2022-10-27

[86] 2021-05-04 (PCT/US2021/030596)

[87] (WO2021/226040)

[30] US (63/020,349) 2020-05-05

[21] **3,181,543**
[13] A1

[51] **Int.Cl. C12Q 1/6883 (2018.01) A61K 38/04 (2006.01) A61P 3/04 (2006.01)**

[25] EN

[54] **PROPROTEIN CONVERTASE SUBTILISIN/KEXIN TYPE 1 (PCSK1) VARIANTS AND USES THEREOF**

[54] **VARIANTS DE LA PROPROTEINE CONVERTASE SUBTILISINE/KEXINE DE TYPE 1 (PCSK1) ET LEURS UTILISATIONS**

[72] LOTTA, LUCA ANDREA, US

[72] FERREIRA, MANUEL ALLEN REVEZ, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2022-10-27

[86] 2021-05-03 (PCT/US2021/030500)

[87] (WO2021/225972)

[30] US (63/019,589) 2020-05-04

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[21] **3,181,544**
[13] A1

[51] **Int.Cl. G16H 20/17 (2018.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01) A61B 5/00 (2006.01)**

[25] EN

[54] **SYSTEM, DEVICE, AND METHOD FOR SAFEGUARDING WELLBEING OF PATIENTS FOR FLUID INJECTION**

[54] **SYSTEME, DISPOSITIF ET PROCEDE DE SAUVEGARDE DU BIEN-ETRE DE PATIENTS POUR L'INJECTION D'UN LIQUIDE**

[72] THUERING, JOHANNES ANTON, DE

[72] UBER, ARTHUR, III, US

[72] GRIFFITHS, DAVID, US

[72] MCDERMOTT, MICHAEL, US

[72] SKIRBLE, BARRY, US

[72] VAN ROOSMALEN, LINDA, US

[72] CZIBUR, ADAM, US

[72] LANG, CHARLES, US

[72] MOORE, DANIEL, US

[72] CARUSO, VINCENZO, AU

[72] CLARKE, BRANDON, US

[71] BAYER HEALTHCARE LLC, US

[85] 2022-10-27

[86] 2021-04-30 (PCT/US2021/030210)

[87] (WO2021/222771)

[30] US (63/017,942) 2020-04-30

[30] US (62/704,954) 2020-06-04

[30] US (62/705,613) 2020-07-07

[30] US (62/706,597) 2020-08-27

[21] **3,181,546**
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01) C12N 15/113 (2010.01) A61P 25/28 (2006.01)**

[25] EN

[54] **COMPOUNDS AND METHODS FOR MODULATING ATXN1**

[54] **COMPOSES ET PROCEDES DE MODULATION DE ATXN1**

[72] ZHOU, KEMING, US

[72] FREIER, SUSAN M., US

[72] COLE, TRACY A., US

[72] KORDASIEWICZ, HOLLY, US

[71] IONIS PHARMACEUTICALS, INC., US

[85] 2022-10-27

[86] 2021-04-30 (PCT/US2021/030203)

[87] (WO2021/222768)

[30] US (63/019,089) 2020-05-01

[21] **3,181,547**
[13] A1

[51] **Int.Cl. B65D 1/02 (2006.01) B65D 79/00 (2006.01)**

[25] EN

[54] **LIGHT-WEIGHT HOT-FILL CONTAINER AND METHODS FOR MAKING THE SAME**

[54] **RECIPIENT LEGER A EMBOUTEILLAGE A CHAUD ET SES PROCEDES DE FABRICATION**

[72] BHAT, ADVAIT, US

[72] JOSHI, ANUP, US

[72] SEQUEIRA, CLARENCE, US

[72] DUNCAN, ANDREW JAY, US

[71] PEPSICO, INC., US

[85] 2022-10-27

[86] 2021-04-30 (PCT/US2021/030188)

[87] (WO2021/222760)

[30] US (63/017,923) 2020-04-30

[21] **3,181,549**
[13] A1

[51] **Int.Cl. A61B 17/88 (2006.01) A61B 90/00 (2016.01)**

[25] EN

[54] **SELF-RETAINING SCREW AND SCREWDRIVER**

[54] **VIS AUTO-RETENTIVE ET TOURNEVIS**

[72] SPREITER, GREGOR, CH

[72] DEFOSSEZ, HENRI, CH

[72] SCHERRER, SIMON, CH

[72] EL ZOGHBI, GASER, CH

[72] KOCH, ROGER, CH

[72] SCHUMACHER, YVONNE, CH

[72] RAPIER, RHETT A., CH

[71] DEPUY SYNTHES PRODUCTS, INC., US

[85] 2022-10-27

[86] 2021-04-23 (PCT/IB2021/053389)

[87] (WO2021/220122)

[30] US (16/863,586) 2020-04-30

[21] **3,181,551**
[13] A1

[51] **Int.Cl. C07D 209/48 (2006.01) A01N 47/04 (2006.01)**

[25] EN

[54] **A FUNGICIDAL COMPOUND AND PROCESS OF PREPARATION THEREOF**

[54] **COMPOSE FONGICIDE ET SON PROCEDE DE PREPARATION**

[72] KINI, PRASHANT VASANT, IN

[72] MUKADAM, VILAS MANIKANT, IN

[71] UPL LIMITED, IN

[85] 2022-10-27

[86] 2021-04-26 (PCT/IN2021/050406)

[87] (WO2021/220296)

[30] IN (202011017964) 2020-04-27

[21] **3,181,553**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) C07K 14/75 (2006.01) C07K 14/78 (2006.01) C07K 19/00 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **CHIMERIC PROTEIN CONTAINING FIBRINOGEN FRAGMENT AND LAMININ FRAGMENT AND USE THEREOF**

[54] **PROTEINE CHIMERE CONTENANT UN FRAGMENT DE FIBRINOGENE ET UN FRAGMENT DE LAMININE, ET SON UTILISATION**

[72] SEKIGUCHI, KIYOTOSHI, JP

[72] TAKIZAWA, MAMORU, JP

[72] TANIGUCHI, YUKIMASA, JP

[71] OSAKA UNIVERSITY, JP

[71] MATRIXOME, INC., JP

[85] 2022-10-27

[86] 2021-05-07 (PCT/JP2021/017594)

[87] (WO2021/225171)

[30] JP (2020-082877) 2020-05-08

PCT Applications Entering the National Phase

[21] **3,181,554**
[13] A1

[51] **Int.Cl. E02F 3/85 (2006.01) E02F 9/20 (2006.01) H04Q 9/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING WORK MACHINE**

[54] **SYSTEME ET PROCEDE DE COMMANDE D'UN ENGIN DE CHANTIER**

[72] KADONO, YUUICHI, JP
[72] TAKAOKA, YUKIHISA, JP
[71] KOMATSU LTD., JP
[85] 2022-10-27
[86] 2021-06-09 (PCT/JP2021/021842)
[87] (WO2022/018992)
[30] JP (2020-123915) 2020-07-20

[21] **3,181,555**
[13] A1

[51] **Int.Cl. C08L 23/12 (2006.01) B25G 1/12 (2006.01) C08L 51/06 (2006.01)**

[25] EN

[54] **GRAFTING-MODIFIED POLYPROPYLENE MATERIAL AND PREPARATION METHOD THEREOF**

[54] **MATERIAU DE POLYPROPYLENE MODIFIE PAR GREFFAGE ET SON PROCEDE DE PREPARATION**

[72] YUAN, HAO, CN
[72] SONG, WENBO, CN
[72] HE, JINLIANG, CN
[72] SHAO, QING, CN
[72] LI, QI, CN
[72] ZHANG, QI, CN
[72] SHI, HONGWEI, CN
[72] LI, JUAN, CN
[72] WANG, YUTAO, CN
[72] HU, JUN, CN
[72] ZHANG, XIAOMENG, CN
[72] ZHOU, YAO, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] TSINGHUA UNIVERSITY, CN
[85] 2022-10-28
[86] 2020-11-09 (PCT/CN2020/127507)
[87] (WO2021/218104)
[30] CN (202010357817.X) 2020-04-29
[30] CN (202010357821.6) 2020-04-29
[30] CN (202010357842.8) 2020-04-29
[30] CN (202010357843.2) 2020-04-29
[30] CN (202010357844.7) 2020-04-29
[30] CN (202010357845.1) 2020-04-29
[30] CN (202010357846.6) 2020-04-29
[30] CN (202010357848.5) 2020-04-29
[30] CN (202010359046.8) 2020-04-29
[30] CN (202010359067.X) 2020-04-29
[30] CN (202010359070.1) 2020-04-29
[30] CN (202010359073.5) 2020-04-29

[21] **3,181,556**
[13] A1

[51] **Int.Cl. A61K 31/727 (2006.01) A61M 1/34 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **HELP APHERESIS FOR THE TREATMENT OF SEVERELY ILL COVID-19 PATIENTS**

[54] **APHERESE HELP POUR TRAITER DES PATIENTS GRAVEMENT MALADES DE LA COVID-19**

[72] SEIDEL, DIETRICH, DE
[72] JAEGER, BEATE R., DE
[71] SEIDEL, DIETRICH, DE
[71] JAEGER, BEATE R., DE
[85] 2022-10-28
[86] 2021-04-30 (PCT/EP2021/061427)
[87] (WO2021/219857)
[30] DE (10 2020 205 557.2) 2020-04-30

[21] **3,181,557**
[13] A1

[51] **Int.Cl. B22D 11/00 (2006.01) B62D 29/00 (2006.01) C22C 21/10 (2006.01)**

[25] EN

[54] **CORROSION RESISTANT HIGH STRENGTH WELDABLE ALUMINUM ALLOY FOR STRUCTURAL APPLICATIONS**

[54] **ALLIAGE D'ALUMINIUM SOUDABLE A HAUTE RESISTANCE, RESISTANT A LA CORROSION, POUR APPLICATIONS STRUCTURALES**

[72] CHO, ALEX, US
[71] ATI, INC., US
[85] 2022-10-28
[86] 2020-12-21 (PCT/US2020/066331)
[87] (WO2021/221730)
[30] US (63/017,856) 2020-04-30

Demandes PCT entrant en phase nationale

[21] 3,181,558 [13] A1	[21] 3,181,560 [13] A1	[21] 3,181,566 [13] A1
<p>[51] Int.Cl. A61K 45/06 (2006.01) A61K 31/35 (2006.01) A61K 31/381 (2006.01) A61K 31/382 (2006.01) A61K 31/401 (2006.01) A61K 31/403 (2006.01) A61K 31/7048 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 9/00 (2006.01) A61P 13/12 (2006.01)</p> <p>[25] EN</p> <p>[54] DRUG COMBINATION FOR TREATING DIABETES MELLITUS AND COMPLICATIONS THEREOF AND PHARMACEUTICAL COMPOSITION OF DRUG COMBINATION</p> <p>[54] COMBINAISON DE MEDICAMENTS POUR TRAITER LE DIABETE SUCRE ET SES COMPLICATIONS ET COMPOSITION PHARMACEUTIQUE D'UNE COMBINAISON DE MEDICAMENTS</p> <p>[72] HUANG, SHENGJIAN, CN</p> <p>[72] LU, XIANPING, CN</p> <p>[72] PAN, DESI, CN</p> <p>[72] LIAO, GUOQIANG, CN</p> <p>[72] ZHAO, YIRU, CN</p> <p>[71] CHENGDU CHIPSCREEN PHARMACEUTICAL LTD., CN</p> <p>[85] 2022-10-28</p> <p>[86] 2021-04-14 (PCT/CN2021/087266)</p> <p>[87] (WO2021/218638)</p> <p>[30] CN (202010362374.3) 2020-04-30</p>	<p>[51] Int.Cl. A61N 5/06 (2006.01) A61M 15/00 (2006.01) A61N 2/06 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR TREATING PATIENTS REQUIRING MECHANICAL VENTILATION</p> <p>[54] SYSTEME ET PROCEDE DE TRAITEMENT DE PATIENTS NECESSITANT UNE VENTILATION MECANIQUE</p> <p>[72] JOHNSON, DOUGLAS, US</p> <p>[72] KANARSKY, MAX, US</p> <p>[72] LEAL JUNIOR, ERNESTO CESAR PINTO, BR</p> <p>[71] MULTI RADIANCE MEDICAL, US</p> <p>[85] 2022-10-28</p> <p>[86] 2021-04-26 (PCT/US2021/029131)</p> <p>[87] (WO2021/222088)</p> <p>[30] US (63/017,267) 2020-04-29</p> <p>[30] US (63/035,943) 2020-06-08</p> <p>[30] US (63/115,158) 2020-11-18</p>	<p>[51] Int.Cl. A61K 39/00 (2006.01) C07K 16/28 (2006.01) C12N 5/00 (2006.01)</p> <p>[25] EN</p> <p>[54] ANTI-CD79B ANTIBODIES AND CHIMERIC ANTIGEN RECEPTORS AND METHODS OF USE THEREOF</p> <p>[54] ANTICORPS ANTI-CD79B ET RECEPTEURS D'ANTIGENES CHIMERIQUES ET LEURS PROCEDES D'UTILISATION</p> <p>[72] CHU, FULIANG, US</p> <p>[72] NEELAPU, SATTVA S., US</p> <p>[72] CAO, JINGJING, US</p> <p>[72] LIU, JINGWEI, US</p> <p>[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US</p> <p>[85] 2022-10-28</p> <p>[86] 2021-04-30 (PCT/US2021/070497)</p> <p>[87] (WO2021/222944)</p> <p>[30] US (63/018,266) 2020-04-30</p>
	[21] 3,181,563 [13] A1	[21] 3,181,568 [13] A1
	<p>[51] Int.Cl. A47J 37/07 (2006.01) A23P 20/12 (2016.01) A23P 20/20 (2016.01) A21C 15/00 (2006.01) A47J 37/06 (2006.01) F24B 3/00 (2006.01)</p> <p>[25] EN</p> <p>[54] HOPPER CLEANOUT AND PELLET HANDLING MECHANISM</p> <p>[54] MECANISME DE NETTOYAGE DE TREMIE ET DE MANIPULATION DE GRANULES</p> <p>[72] PARSONS, MICHAEL, US</p> <p>[72] ABDALLAH, SLEIMAN, US</p> <p>[72] HAMILTON, ANTHONY, US</p> <p>[72] CORSO, DAN, US</p> <p>[72] GILLESPIE, BRAD, US</p> <p>[72] RAHMANI, RAMIN KHOSRAVI, US</p> <p>[71] W.C. BRADLEY CO., US</p> <p>[85] 2022-10-28</p> <p>[86] 2021-04-26 (PCT/US2021/029170)</p> <p>[87] (WO2021/222108)</p> <p>[30] US (16/863,788) 2020-04-30</p>	<p>[51] Int.Cl. G06F 15/00 (2006.01) G06F 17/00 (2019.01)</p> <p>[25] EN</p> <p>[54] A SYSTEM AND METHOD FOR DYNAMICALLY DEFINING DIGITAL FORMS</p> <p>[54] SYSTEME ET PROCEDE DE DEFINITION DYNAMIQUE DE FORMULAIRES NUMERIQUES</p> <p>[72] PADULA, RICHARD, US</p> <p>[72] PADULA, ROBERT, US</p> <p>[72] FREDRICK, RANDALL, US</p> <p>[72] ERICKSON, RONALD, US</p> <p>[71] MIRATA SOFTWARE, LLC, US</p> <p>[85] 2022-10-28</p> <p>[86] 2021-04-27 (PCT/US2021/029346)</p> <p>[87] (WO2021/222209)</p> <p>[30] US (63/016,587) 2020-04-28</p>

PCT Applications Entering the National Phase

[21] **3,181,569**
[13] A1

[51] **Int.Cl. G05D 1/00 (2006.01)**
[25] EN
[54] **LONG DISTANCE TRANS-CONTINENTAL REMOTE DRONE PILOTING SYSTEM**
[54] **SYSTEME DE PILOTAGE DE DRONE A DISTANCE TRANSCONTINENTALE DE LONGUE DISTANCE**
[72] SANTANGELO, GIUSEPPE, US
[72] RIZZELLO, LORENZO, US
[71] UAVPATENT CORP., US
[85] 2022-10-28
[86] 2021-05-06 (PCT/US2021/031040)
[87] (WO2021/226316)
[30] US (63/020,546) 2020-05-06

[21] **3,181,571**
[13] A1

[51] **Int.Cl. A61B 5/055 (2006.01) G01R 1/16 (2006.01) G01R 29/08 (2006.01) G01R 33/44 (2006.01) G01R 33/46 (2006.01) G01R 33/48 (2006.01)**
[25] EN
[54] **GENERATING 3D DYNAMIC IMAGES USING PRE-LEARNED SPATIAL SUBSPACE**
[54] **GENERATION D'IMAGES DYNAMIQUES TRIDIMENSIONNELLES (3D) A L'AIDE D'UN SOUS-ESPACE SPATIAL PRE-APPRIIS**
[72] CHRISTODOULOU, ANTHONY, US
[72] FAN, ZHAOYANG, US
[72] LI, DEBIAO, US
[72] HAN, PEI, US
[71] CEDARS-SINAI MEDICAL CENTER, US
[85] 2022-10-28
[86] 2021-05-04 (PCT/US2021/030667)
[87] (WO2021/226095)
[30] US (63/019,791) 2020-05-04

[21] **3,181,575**
[13] A1

[51] **Int.Cl. B23K 15/00 (2006.01) B23K 15/04 (2006.01)**
[25] EN
[54] **JOINING METHOD TO PERFORM DEFECT-FREE, ELECTRON BEAM WELDS USING A SLOPE-OUT TECHNIQUE**
[54] **PROCEDE D'ASSEMBLAGE POUR REALISER DES SOUDURES PAR FAISCEAU D'ELECTRONS SANS DEFAUT A L'AIDE D'UNE TECHNIQUE D'INCLINAISON VERS L'EXTERIEUR**
[72] DUTILLEUL, THOMAS, GB
[71] ELECTRIC POWER RESEARCH INSTITUTE, INC., US
[85] 2022-10-28
[86] 2021-04-27 (PCT/US2021/029415)
[87] (WO2021/222259)
[30] US (63/016,934) 2020-04-28
[30] US (17/191,293) 2021-03-03

[21] **3,181,576**
[13] A1

[51] **Int.Cl. B65D 88/36 (2006.01) B01D 21/02 (2006.01) B01D 21/24 (2006.01) B65D 88/38 (2006.01)**
[25] EN
[54] **COVERS FOR LIQUID CONTAINMENT APPARATUSES AND SYSTEMS THAT INCLUDE THE SAME**
[54] **COUVERCLES POUR APPAREILS DE CONFINEMENT DE LIQUIDE ET SYSTEMES COMPRENANT CEUX-CI**
[72] DOMINGUEZ MADEIRA, SALVADOR, US
[72] SUDAK, MATTHEW, US
[71] XYLEM WATER SOLUTIONS ZELIENOPLE LLC, US
[85] 2022-10-28
[86] 2021-05-04 (PCT/US2021/030619)
[87] (WO2021/226058)
[30] US (63/019,454) 2020-05-04

[21] **3,181,577**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 7/00 (2006.01) A61P 13/00 (2006.01) A61P 35/00 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **THIENO PYRIMIDINES AS FERROPORTIN INHIBITORS**
[54] **THIENOPYRIMIDINES SERVANT D'INHIBITEURS DE LA FERROPORTINE**
[72] XU, QING, US
[72] LI, ZHE, US
[72] NILAR, SHAHUL, US
[71] GLOBAL BLOOD THERAPEUTICS, INC., US
[85] 2022-10-28
[86] 2021-04-28 (PCT/US2021/029564)
[87] (WO2021/222359)
[30] US (63/016,737) 2020-04-28

[21] **3,181,579**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 1/00 (2006.01) C07K 16/28 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **BIFUNCTIONAL PROTEIN AGAINST PD-1 AND TGF-.BETA.**
[54] **PROTEINE BIFONCTIONNELLE DIRIGEES CONTRE PD-1 ET TGF-.BETA.**
[72] ZHAO, WEI, CN
[72] LI, YINGCHUN, CN
[72] LV, HAILI, CN
[72] XIE, LIANXIANG, CN
[72] ZHANG, ZHEWEN, CN
[72] QIN, YU, CN
[72] ZHANG, XIQUAN, CN
[72] CHENG, YANJU, CN
[72] LV, PENG, CN
[72] LI, TIAN TIAN, CN
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2022-10-28
[86] 2021-04-26 (PCT/CN2021/089837)
[87] (WO2021/218895)
[30] CN (202010359751.8) 2020-04-29

Demandes PCT entrant en phase nationale

[21] **3,181,583**
[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01)**
[25] EN
[54] **METHODS OF USE FOR PYRIMIDINES AS FERROPORTIN INHIBITORS**
[54] **METHODES D'UTILISATION DE PYRIMIDINES EN TANT QU'INHIBITEURS DE LA FERROPORTINE**
[72] XU, QING, US
[72] ALT, CARSTEN, US
[72] LI, ZHE, US
[72] NILAR, SHAHUL, US
[72] RADEMACHER, PETER MICHAEL, US
[72] YEE, CALVIN WESLEY, US
[71] GLOBAL BLOOD THERAPEUTICS, INC., US
[85] 2022-10-28
[86] 2021-04-28 (PCT/US2021/029766)
[87] (WO2021/222483)
[30] US (63/016,874) 2020-04-28
[30] US (63/127,830) 2020-12-18

[21] **3,181,585**
[13] A1

[51] **Int.Cl. H03M 1/18 (2006.01)**
[25] EN
[54] **SYSTEM AND APPARATUS FOR NANOPORE SINGLE MOLECULE SEQUENCING**
[54] **SYSTEME ET APPAREIL DE SEQUENCAGE DE MOLECULE UNIQUE DE NANOPORE**
[72] LI, SHIFENG, US
[72] KANEKAL, HEMANTH, US
[72] ZHANG, YUNING, CN
[72] YUN, QUANXIN, CN
[71] MGI HOLDINGS CO., LIMITED, CN
[71] BGI SHENZHEN, CN
[85] 2022-10-28
[86] 2021-04-27 (PCT/CN2021/090243)
[87] (WO2021/223627)
[30] CN (PCT/CN2020/088904) 2020-05-07

[21] **3,181,587**
[13] A1

[51] **Int.Cl. H02G 3/22 (2006.01) H02G 3/30 (2006.01) H02G 3/36 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR INSTALLING WIRE BEHIND EXISTING WALLS**
[54] **APPAREIL ET PROCEDE POUR INSTALLER DES CABLES DERRIERE DES PAROIS EXISTANTES**
[72] KALESHNIK, CHRISTOPHER, US
[71] KALESHNIK, CHRISTOPHER, US
[85] 2022-10-28
[86] 2021-05-03 (PCT/US2021/030426)
[87] (WO2021/225939)
[30] US (63/020,385) 2020-05-05
[30] US (17/306,017) 2021-05-03

[21] **3,181,589**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 5/16 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING CONSTRUCTS TARGETING HER2 AND USES THEREOF**
[54] **CONSTRUCTIONS DE LIAISON D'ANTIGENE CIBLANT HER2 ET LEURS UTILISATIONS**
[72] ZHANG, BING, CN
[72] ZHAO, WEI, CN
[72] DU, MIN, CN
[72] LU, YAMIN, CN
[72] MA, YIMIN, CN
[72] DU, XIUZHEN, CN
[72] LU, NA, CN
[72] MA, ZHAOXIONG, CN
[72] ZHANG, XIQUAN, CN
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2022-10-28
[86] 2021-04-29 (PCT/CN2021/090794)
[87] (WO2021/219046)
[30] CN (202010365705.9) 2020-04-30

[21] **3,181,591**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **ANTIBODIES SPECIFIC TO ABCB5 AND USES THEREOF**
[54] **ANTICORPS SPECIFIQUES A ABCB5 ET LEURS UTILISATIONS**
[72] FRANK, MARKUS H., US
[72] GANSS, CHRISTOPH, DE
[72] MASLO, CHRISTOPH, DE
[72] KLUTH, MARK ANDREAS, DE
[72] RECKENBEIL, JAN, DE
[71] CHILDREN'S MEDICAL CENTER CORPORATION, US
[71] TICEBA GMBH, DE
[71] RHEACELL GMBH & CO. KG, DE
[85] 2022-10-28
[86] 2021-04-30 (PCT/US2021/030342)
[87] (WO2021/222861)
[30] US (63/018,440) 2020-04-30

[21] **3,181,593**
[13] A1

[51] **Int.Cl. C01B 13/00 (2006.01) C01F 11/00 (2006.01) C22B 3/02 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01)**
[25] EN
[54] **USE OF REACTOR OUTPUTS TO PURIFY MATERIALS, AND RELATED SYSTEMS**
[54] **UTILISATION DE SORTIES DE REACTEUR POUR PURIFIER DES MATERIAUX, ET SYSTEMES ASSOCIES**
[72] CHIANG, YET-MING, US
[72] ELLIS, LEAH, CA
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2022-10-28
[86] 2021-04-29 (PCT/US2021/029918)
[87] (WO2021/222585)
[30] US (63/018,696) 2020-05-01
[30] US (63/054,683) 2020-07-21

PCT Applications Entering the National Phase

[21] **3,181,594**
[13] A1

[51] **Int.Cl. G06E 1/00 (2006.01)**
[25] EN
[54] **TREATMENT RECOMMENDATION**
[54] **RECOMMANDATION DE TRAITEMENT**
[72] DE VRIES, DAVID, US
[72] KIM, EUNICE, US
[72] KIM, YOONA, US
[72] KLEIN, AMIT, US
[72] ROSE, JEFFREY, US
[72] MOORHEAD, PENJIT, US
[71] ARINE, INC., US
[85] 2022-10-28
[86] 2021-04-30 (PCT/US2021/030258)
[87] (WO2021/222802)
[30] US (63/018,493) 2020-04-30

[21] **3,181,597**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) G16H 20/30 (2018.01) G16H 20/70 (2018.01) A24F 15/00 (2020.01) A24F 47/00 (2020.01) A61B 5/00 (2006.01) A61M 15/00 (2006.01)**
[25] EN
[54] **NICOTINE REPLACEMENT THERAPY SMART DEVICE**
[54] **DISPOSITIF INTELLIGENT POUR THERAPIE DE SUBSTITUTION NICOTINIQUE**
[72] MELLINGER, JUSTIN, US
[72] WALSH, RYAN, US
[72] EDGAR, SOPHIE, US
[72] DONG, MING, US
[72] BINNER, CURT, US
[71] MCNEIL AB, SE
[85] 2022-10-28
[86] 2021-04-29 (PCT/US2021/029961)
[87] (WO2021/222617)
[30] US (63/018,035) 2020-04-30

[21] **3,181,598**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/4709 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION DRUG FOR TREATING KIDNEY CANCER**
[54] **MEDICAMENT COMBINE POUR LE TRAITEMENT DU CANCER DU REIN**
[72] YANG, ANQI, CN
[72] ZHANG, XIQUAN, CN
[72] WANG, XUNQIANG, CN
[72] YU, DING, CN
[72] LI, LIN, CN
[72] WANG, RONGLIANG, CN
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2022-10-28
[86] 2021-04-30 (PCT/CN2021/091592)
[87] (WO2021/219138)
[30] CN (202010365735.X) 2020-04-30

[21] **3,181,600**
[13] A1

[51] **Int.Cl. G06F 3/0338 (2013.01) G06F 3/0354 (2013.01) G06F 3/01 (2006.01)**
[25] EN
[54] **INPUT DEVICE**
[54] **DISPOSITIF D'ENTREE**
[72] TEKERLEK, KORKUT, CH
[71] TEKERLEK, KORKUT, CH
[85] 2022-10-28
[86] 2021-05-03 (PCT/EP2021/061565)
[87] (WO2021/224181)
[30] EP (PCT/EP2020/062451) 2020-05-05

[21] **3,181,602**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) G16H 20/30 (2018.01) G16H 20/70 (2018.01) A24F 15/00 (2020.01) A24F 47/00 (2020.01) A61B 5/00 (2006.01) A61M 15/00 (2006.01)**
[25] EN
[54] **BIOMARKER BASED NICOTINE REPLACEMENT THERAPY**
[54] **THERAPIE DE REMPLACEMENT DE LA NICOTINE BASEE SUR UN BIOMARQUEUR**
[72] MELLINGER, JUSTIN, US
[72] WALSH, RYAN, US
[72] EDGAR, SOPHIE, US
[72] DONG, MING, US
[72] BINNER, CURT, US
[71] MCNEIL AB, SE
[85] 2022-10-28
[86] 2021-04-29 (PCT/US2021/029969)
[87] (WO2021/222625)
[30] US (63/018,035) 2020-04-30

[21] **3,181,603**
[13] A1

[51] **Int.Cl. B44D 3/00 (2006.01)**
[25] EN
[54] **MODULAR TOOLBOX DESIGNED AND ORGANIZED FOR PAINTING TOOLS**
[54] **BOITE A OUTILS MODULAIRE CONCUE ET ORGANISEE POUR DES OUTILS DE PEINTURE**
[72] GOODWIN, E. RAY, US
[72] GAURAV, SHARAD, US
[72] BUCKEL, CHARLES T., US
[72] MCKINNEY, CONNIE M., US
[72] LAMBERTSON, MICHAEL C., US
[71] SWIMC LLC, US
[85] 2022-10-28
[86] 2021-04-30 (PCT/US2021/030195)
[87] (WO2022/231623)

Demandes PCT entrant en phase nationale

[21] **3,181,604**
[13] A1

[51] **Int.Cl. A61K 31/4178 (2006.01) A61K 31/42 (2006.01) A61K 31/4245 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **3-AZABICYCLO(3.1.0)HEXANE DERIVATIVES HAVING KDM5 INHIBITORY ACTIVITY AND USE THEREOF**

[54] **DERIVES DE 3-AZABICYCLO(3.1.0)HEXANE PRESENTANT UNE ACTIVITE INHIBITRICE DE KDM5 ET LEUR UTILISATION**

[72] KAKUUCHI, AKITO, JP
[72] UMEMURA, SHUHEI, JP
[72] ASADA, MASAKI, JP
[72] RUVINSKY, ANATOLY, US
[72] ZHANG, YAN, US
[72] TAKAHASHI, HIDENORI, US
[72] KRILOV, GORAN, US
[72] INOYAMA, DAIGO, US
[72] KONZE, KYLE, US
[72] SVENSSON, MATS, US
[71] ONO PHARMACEUTICAL CO., LTD., JP

[85] 2022-10-28
[86] 2021-05-06 (PCT/CN2021/091843)
[87] (WO2021/223699)
[30] CN (PCT/CN2020/088925) 2020-05-07

[21] **3,181,605**
[13] A1

[51] **Int.Cl. G06T 7/80 (2017.01)**

[25] EN

[54] **METHOD OF CALIBRATING CAMERAS**

[54] **PROCEDE D'ETALONNAGE DE CAMERAS**

[72] VAREKAMP, CHRISTIAAN, NL
[72] KROON, BART, NL
[71] KONINKLIJKE PHILIPS N.V., NL

[85] 2022-10-28
[86] 2021-04-23 (PCT/EP2021/060613)
[87] (WO2021/219496)
[30] EP (20172598.3) 2020-05-01

[21] **3,181,607**
[13] A1

[51] **Int.Cl. B60B 33/00 (2006.01) F16D 49/10 (2006.01)**

[25] EN

[54] **TWO-WAY BAND BRAKE FOR A CASTER**

[54] **FREIN A BANDE A DEUX VOIES POUR ROULETTE**

[72] KOLAR, VLADIMIR, CZ
[71] LINET SPOL. S R.O., CZ

[85] 2022-10-29
[86] 2021-05-04 (PCT/CZ2021/000017)
[87] (WO2021/223782)
[30] CZ (PV 2020-250) 2020-05-06

[21] **3,181,608**
[13] A1

[51] **Int.Cl. G01K 13/00 (2021.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DIURNAL CURVE TRACKING AND ANALYSIS**

[54] **SYSTEMES ET PROCEDES DE SUIVI ET D'ANALYSE DE COURBE DIURNE**

[72] SINGH, INDER RAJ, US
[71] KINSA INC., US

[85] 2022-10-28
[86] 2021-04-30 (PCT/US2021/030068)
[87] (WO2021/225875)
[30] US (63/021,634) 2020-05-07
[30] US (63/044,401) 2020-06-26
[30] US (63/056,040) 2020-07-24

[21] **3,181,609**
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01)**

[25] EN

[54] **BIOMARKERS FOR DETECTION OF LUNG CANCER**

[54] **BIOMARQUEURS PERMETTANT LA DETECTION DU CANCER DU POUMON**

[72] EL KHOURY, VICTORIA, LU
[72] SCHRITZ, ANNA ELISABETH, DE
[72] KIM, YEOUN JIN, US
[72] BERCHEM, GUY, LU
[72] PAULOVICH, AMANDA, US
[72] WHITEAKER, JEFFREY, US
[72] PETRITIS, KONSTANTINOS, US
[72] PIRROTTE, PATRICK, US
[72] TEGELER, TONY, US
[71] LUXEMBOURG INSTITUTE OF HEALTH (LIH), LU

[71] FRED HUTCHINSON CANCER CENTER, US

[71] THE TRANSLATIONAL GENOMICS RESEARCH INSTITUTE (TGEN), US

[85] 2022-10-28
[86] 2021-04-28 (PCT/EP2021/061085)
[87] (WO2021/219696)
[30] EP (20171726.1) 2020-04-28

[21] **3,181,613**
[13] A1

[51] **Int.Cl. G06F 16/36 (2019.01)**

[25] EN

[54] **PHARMACEUTICAL PROCESS**

[54] **PROCEDE PHARMACEUTIQUE**

[72] WERNER, JOERG, DE
[72] SCHLAPS, DIETER, DE
[71] MERCK PATENT GMBH, DE

[85] 2022-10-28
[86] 2021-04-29 (PCT/EP2021/061347)
[87] (WO2021/219827)
[30] DE (10 2020 002 607.9) 2020-04-30

PCT Applications Entering the National Phase

[21] **3,181,615**
[13] A1

[51] **Int.Cl. G06F 16/909 (2019.01)**
[25] EN
[54] **A METHOD FOR SEARCHING OR COMPARING SITES USING TRAVEL BETWEEN SITES AND PLACES WITHIN A TRANSPORTATION SYSTEM**
[54] **PROCEDE DE RECHERCHE OU DE COMPARAISON DE SITES FAISANT APPEL A UN DEPLACEMENT ENTRE DES SITES ET DES LIEUX DANS UN SYSTEME DE TRANSPORT**
[72] MALEWICZ, GRZEGORZ, PL
[71] MALEWICZ, GRZEGORZ, PL
[85] 2022-10-29
[86] 2021-04-25 (PCT/US2021/029024)
[87] (WO2021/222046)
[30] US (16/864,157) 2020-05-01
[30] US (16/894,761) 2020-06-06
[30] US (16/940,418) 2020-07-28

[21] **3,181,617**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **CD40 BINDING PROTEIN**
[54] **PROTEINE DE LIAISON AU CD40**
[72] MANGSBO, SARA, SE
[72] PERSSON LOTSHOLM, HELENA, SE
[72] ANDERSSON, OSKAR, SE
[71] STRIKE PHARMA AB, SE
[85] 2022-10-31
[86] 2021-05-28 (PCT/EP2021/064390)
[87] (WO2021/239968)
[30] GB (2008003.2) 2020-05-28

[21] **3,181,620**
[13] A1

[51] **Int.Cl. C21B 13/00 (2006.01) C21B 13/12 (2006.01) C21B 13/14 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING LIQUID PIG IRON FROM A DRI PRODUCT**
[54] **PROCEDE DE PRODUCTION DE FONTE BRUTE LIQUIDE A PARTIR D'UN PRODUIT DE FER DE REDUCTION DIRECTE**
[72] SCHLUTER, JOCHEN, DE
[72] NORTHEMANN, RALF, DE
[72] HENKEL, THOMAS, DE
[72] TOCKERT, PAUL, LU
[71] SMS GROUP GMBH, DE
[85] 2022-10-31
[86] 2021-03-02 (PCT/EP2021/055116)
[87] (WO2021/219277)
[30] DE (10 2020 205 493.2) 2020-04-30

[21] **3,181,623**
[13] A1

[51] **Int.Cl. G16B 35/10 (2019.01) G16B 40/20 (2019.01)**
[25] EN
[54] **MACHINE LEARNING ACCELERATED PROTEIN ENGINEERING THROUGH FITNESS PREDICTION**
[54] **MODIFICATION DE PROTEINES ACCELEREE PAR APPRENTISSAGE AUTOMATIQUE PAR PREDICTION D'APTITUDE**
[72] DEVERMAN, BENJAMIN E., US
[72] EID, FATMAELZAHRAA SOBHY ABDELMOUTY, US
[72] CHAN, KEN Y., US
[71] THE BROAD INSTITUTE, INC., US
[85] 2022-10-28
[86] 2021-04-29 (PCT/US2021/029985)
[87] (WO2021/222636)
[30] US (63/017,510) 2020-04-29

[21] **3,181,625**
[13] A1

[51] **Int.Cl. A61N 1/375 (2006.01)**
[25] EN
[54] **MEDICAL HANDLING SET**
[54] **ENSEMBLE DE MANIPULATION MEDICAL**
[72] KEMPTER, DANIEL, DE
[72] KIMMIG, FABIAN, DE
[72] BORETIUS, TIM, DE
[71] NEUROLOOP GMBH, DE
[85] 2022-10-31
[86] 2021-06-09 (PCT/EP2021/065423)
[87] (WO2022/002543)
[30] DE (10 2020 117 142.0) 2020-06-30

[21] **3,181,626**
[13] A1

[51] **Int.Cl. H02M 1/32 (2007.01) H02M 1/36 (2007.01) H02M 1/42 (2007.01)**
[25] EN
[54] **ELECTRICAL POWER CONVERTER WITH PRE-CHARGE MODE OF OPERATION**
[54] **CONVERTISSEUR DE PUISSANCE ELECTRIQUE AVEC MODE DE FONCTIONNEMENT A PRECHARGE**
[72] EVERTS, JORDI, NL
[72] SLAATS, NOUD, NL
[71] PRODRIVE TECHNOLOGIES INNOVATION SERVICES B.V., NL
[85] 2022-10-28
[86] 2021-05-03 (PCT/EP2021/061590)
[87] (WO2021/224191)
[30] NL (2025502) 2020-05-04

[21] **3,181,627**
[13] A1

[25] EN
[54] **MICROFLUIDIC MIXING DEVICE AND METHODS OF USE**
[54] **DISPOSITIF DE MELANGE MICROFLUIDIQUE ET PROCEDES D'UTILISATION**
[72] JEHOULET, PHILIPPE RAYMOND, BE
[72] MENAFRO, AMEDEO, BE
[72] STRODIOT, LAURENT, BE
[72] TOMBA, EMANUELE, IT
[72] TSOUMPAS, IOANNIS, BE
[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE
[85] 2022-10-31
[86] 2021-05-04 (PCT/EP2021/061621)
[87] (WO2021/224205)
[30] EP (20173050.4) 2020-05-05

Demandes PCT entrant en phase nationale

[21] **3,181,631**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 31/4035 (2006.01) A61K 31/4166 (2006.01) A61K 31/4184 (2006.01) A61K 31/47 (2006.01) A61K 31/505 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61K 31/52 (2006.01) A61P 17/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **NOVEL AMORPHOUS ACTIVE PHARMACEUTICAL INGREDIENTS**

[54] **NOUVEAUX INGREDIENTS PHARMACEUTIQUES ACTIFS AMORPHES**

[72] ASBERG, PETER, SE

[72] FAGERBERG, JONAS, SE

[72] IVARSSON, CAROLINE, SE

[71] DISRUPTIVE PHARMA AB, SE

[85] 2022-10-31

[86] 2021-05-05 (PCT/EP2021/061816)

[87] (WO2021/224313)

[30] SE (2050519-4) 2020-05-06

[21] **3,181,635**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 37/06 (2006.01) C07K 14/435 (2006.01)**

[25] EN

[54] **IMMUNOGENIC PEPTIDES WITH NEW OXIDOREDUCTASE MOTIFS**

[54] **PEPTIDES IMMUNOGENES AVEC DE NOUVEAUX MOTIFS D'OXYDOREDUCTASE**

[72] ERAK, MILOS, BE

[71] IMCYSE SA, BE

[85] 2022-10-31

[86] 2021-05-06 (PCT/EP2021/062024)

[87] (WO2021/224403)

[30] EP (20173223.7) 2020-05-06

[21] **3,181,639**
[13] A1

[51] **Int.Cl. A23L 19/00 (2016.01) A23L 21/10 (2016.01) A23L 21/15 (2016.01)**

[25] EN

[54] **HIGH FIBER NUTRITIONAL COMPOSITIONS WITH IMPROVED ORGANOLEPTIC CHARACTERISTICS FOR BETTER DIET MANAGEMENT**

[54] **COMPOSITIONS NUTRITIONNELLES A HAUTE TENEUR EN FIBRES PRESENTANT DES CARACTERISTIQUES ORGANOLEPTIQUES AMELIOREES POUR UNE MEILLEURE GESTION DU REGIME ALIMENTAIRE**

[72] LANG, DAVID PHILLIP, US

[71] LANG PHARMA NUTRITION, INC., US

[85] 2022-07-22

[86] 2020-11-13 (PCT/US2020/060480)

[87] (WO2021/150293)

[30] US (62/964,640) 2020-01-22

[30] US (17/085,917) 2020-10-30

[21] **3,181,641**
[13] A1

[51] **Int.Cl. F02D 41/22 (2006.01) F03G 1/02 (2006.01) F15B 1/02 (2006.01) F16H 25/20 (2006.01) F16K 31/05 (2006.01) F16K 31/50 (2006.01) F16K 37/00 (2006.01) G05G 15/00 (2006.01)**

[25] EN

[54] **ACTUATOR AND CORRESPONDING METHOD**

[54] **MECANISME DE COMMANDE ET PROCEDE CORRESPONDANT**

[72] TRITSCHLER, MATTHIAS, DE

[72] MALUS, PETER, DE

[72] STOCKLIN, LUTZ, DE

[72] KOCH, GUIDO, DE

[71] AUMA RIESTER GMBH & CO. KG, DE

[85] 2022-10-31

[86] 2021-05-06 (PCT/EP2021/062081)

[87] (WO2021/224433)

[30] DE (10 2020 112 548.8) 2020-05-08

[21] **3,181,644**
[13] A1

[51] **Int.Cl. B62D 21/15 (2006.01) B62D 25/02 (2006.01)**

[25] EN

[54] **ROCKER REINFORCEMENT FOR AN ELECTRIC VEHICLE**

[54] **RENFORT DE BAS DE CAISSE POUR VEHICULE ELECTRIQUE**

[72] HASENPOUTH, DAN, FR

[72] MERDJI, YOHAN, FR

[72] WILSIUS, JOEL, FR

[71] ARCELORMITTAL, LU

[85] 2022-10-31

[86] 2020-05-18 (PCT/IB2020/054691)

[87] (WO2021/234433)

[21] **3,181,645**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 31/427 (2006.01) A61K 31/513 (2006.01) A61K 31/706 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **USES AND FORMULATIONS OF CANNABINOIDS**

[54] **UTILISATIONS ET FORMULATIONS DE CANNABINOIDES**

[72] NOWAK, REINHARD, DE

[72] NOWAK, MIRKO, DE

[72] NOWAK, JESKO JAY, DE

[72] POLLINGER, NORBERT, DE

[71] ADD ADVANCED DRUG DELIVERY TECHNOLOGIES LTD., CH

[85] 2022-10-31

[86] 2021-05-11 (PCT/EP2021/062495)

[87] (WO2021/228863)

[30] EP (PCT/EP2020/063086) 2020-05-11

[30] EP (21168856.9) 2021-04-16

PCT Applications Entering the National Phase

[21] **3,181,648**
[13] A1

[51] **Int.Cl. G06F 3/14 (2006.01) G06F 3/147 (2006.01)**
[25] EN
[54] **DATA PROCESSING SYSTEMS FOR PROVIDING A DATA COMMUNICATION CHANNEL BETWEEN ONE OR MORE CONNECTED COMPUTING DEVICES AND AN INTERACTIVE DISPLAY**
[54] **SYSTEMES DE TRAITEMENT DE DONNEES DESTINES A ETABLIR UN CANAL DE COMMUNICATION DE DONNEES ENTRE UN OU PLUSIEURS DISPOSITIFS INFORMATIQUES CONNECTES ET UN AFFICHEUR INTERACTIF**
[72] WAREING, PAUL, GB
[72] TITTERINGTON, BEN, GB
[72] EDWARDSON, ANDREW, GB
[71] PROMETHEAN LIMITED, GB
[85] 2022-10-31
[86] 2021-04-30 (PCT/IB2021/053637)
[87] (WO2021/220244)
[30] US (63/018,800) 2020-05-01

[21] **3,181,651**
[13] A1

[51] **Int.Cl. A61L 29/04 (2006.01) C08F 2/48 (2006.01) C08F 271/02 (2006.01) C08F 290/06 (2006.01) C08G 18/48 (2006.01) C08G 18/67 (2006.01) C08G 18/75 (2006.01) C08G 18/76 (2006.01) C09D 4/06 (2006.01) C09D 175/16 (2006.01)**
[25] EN
[54] **COATING COMPOSITION, METHOD OF MAKING A HYDROPHILIC COATING ON A SUBSTRATE, AND MEDICAL DEVICE COMPRISING SUCH COATING**
[54] **COMPOSITION DE REVETEMENT, PROCEDE DE PREPARATION D'UN REVETEMENT HYDROPHILE SUR UN SUBSTRAT, ET DISPOSITIF MEDICAL COMPRENANT UN TEL REVETEMENT**
[72] BELT, JOHANNES WILHELMUS, NL
[71] DSM IP ASSETS B.V., NL
[85] 2022-10-31
[86] 2021-05-11 (PCT/EP2021/062541)
[87] (WO2021/233743)
[30] EP (20175279.7) 2020-05-18

[21] **3,181,652**
[13] A1

[51] **Int.Cl. G06F 9/451 (2018.01) G06F 9/455 (2018.01) G06F 11/34 (2006.01)**
[25] EN
[54] **AUTOMATIC TUNING OF A HETEROGENEOUS COMPUTING SYSTEM**
[54] **REGLAGE AUTOMATIQUE D'UN SYSTEME INFORMATIQUE HETEROGENE**
[72] FROHWITTER, BERNHARD, DE
[71] PARTEC AG, DE
[85] 2022-10-31
[86] 2021-05-14 (PCT/EP2021/062826)
[87] (WO2021/229053)
[30] EP (20174913.2) 2020-05-15

[21] **3,181,653**
[13] A1

[51] **Int.Cl. A41B 11/00 (2006.01) A61F 13/08 (2006.01)**
[25] EN
[54] **SOCK WITH FUNCTIONAL BIOMECHANICAL, CIRCULATORY AND NEUROLOGICAL EFFICACY**
[54] **CHAUSSETTE A EFFICACITE FONCTIONNELLE, BIOMECHANIQUE, CIRCULATOIRE ET NEUROLOGIQUE**
[72] COFFINARDI, MARCO, IT
[72] COFFINARDI, ALESSANDRO, IT
[72] DELPANNI, PIERO, IT
[72] TESTA, MAURO, IT
[71] COFFINARDI & DELPANNI INDUSTRIE SRL, IT
[85] 2022-10-31
[86] 2021-05-11 (PCT/IB2021/054014)
[87] (WO2021/229440)

[21] **3,181,656**
[13] A1

[51] **Int.Cl. C08L 1/12 (2006.01)**
[25] EN
[54] **CELLULOSE ACETATE RESIN COMPOSITION**
[54] **COMPOSITION DE RESINE D'ACETATE DE CELLULOSE**
[72] KUSUMOTO, MASAOKI, JP
[72] KAWASAKI, TAKAFUMI, JP
[72] HIGUCHI, AKIHIRO, JP
[71] DAICEL CORPORATION, JP
[85] 2022-10-31
[86] 2020-08-07 (PCT/JP2020/030469)
[87] (WO2022/030013)

[21] **3,181,661**
[13] A1

[51] **Int.Cl. B65D 65/46 (2006.01) C08F 8/12 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **POLYVINYL ALCOHOL RESIN FILM, METHOD FOR DISCRIMINATING POLYVINYL ALCOHOL RESIN FILM, AND METHOD FOR MANUFACTURING POLYVINYL ALCOHOL RESIN FILM**
[54] **FILM DE RESINE D'ALCOOL POLYVINYLIQUE, PROCEDE D'IDENTIFICATION D'UN FILM DE RESINE D'ALCOOL POLYVINYLIQUE, ET PROCEDE DE PRODUCTION D'UN FILM DE RESINE D'ALCOOL POLYVINYLIQUE**
[72] KAZETO, OSAMU, JP
[72] INUBUSHI, YASUTAKA, JP
[71] KURARAY CO., LTD., JP
[85] 2022-10-31
[86] 2021-10-14 (PCT/JP2021/038144)
[87] (WO2022/080472)
[30] JP (2020-173926) 2020-10-15

[21] **3,181,664**
[13] A1

[51] **Int.Cl. A63F 9/24 (2006.01)**
[25] EN
[54] **EVENT SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'EVENEMENT**
[72] IORDACHE, SANDU, NZ
[71] HUNGERBALL IP LIMITED, NZ
[85] 2022-10-31
[86] 2021-05-04 (PCT/NZ2021/050076)
[87] (WO2021/225455)
[30] NZ (764164) 2020-05-04

Demandes PCT entrant en phase nationale

[21] **3,181,666**
[13] A1

[51] **Int.Cl. A61K 47/36 (2006.01) A24B 15/16 (2020.01) A61K 31/352 (2006.01) A61K 31/465 (2006.01) A61K 47/12 (2006.01) A61P 25/34 (2006.01)**

[25] EN

[54] **NEW COMPOSITIONS FOR ORAL OR NASAL USE**

[54] **NOUVELLES COMPOSITIONS POUR UTILISATION ORALE OU NASALE**

[72] BJORKHOLM, LARS, SE
[72] BJORKHOLM, JOHAN, SE
[71] LIW INNOVATION AB, SE
[85] 2022-10-31
[86] 2021-05-07 (PCT/SE2021/050431)
[87] (WO2021/225509)
[30] SE (2050532-7) 2020-05-07

[21] **3,181,676**
[13] A1

[51] **Int.Cl. A61K 31/5025 (2006.01) A61P 11/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **IMIDAZOPYRIDAZINES AS MODULATORS OF IL-17**

[54] **IMIDAZOPYRIDAZINES EN TANT QUE MODULATEURS DE L'IL-17**

[72] BEHENNA, DOUGLAS, US
[72] DECKHUT, CHARLOTTE, US
[72] ROVIRA, ALEXANDER, US
[72] GOLDBERG, STEVEN, US
[72] KUMMER, DAVID, US
[72] KEITH, JOHN, US
[72] WOODS, CRAIG, US
[72] RHORER, TIMOTHY, US
[72] TANIS, VIRGINIA, US
[72] MARTIN, CONNOR, US
[72] MEDUNA, STEVEN, US
[72] MCCARVER, STEFAN, US
[72] VALDES, ALEXANDER, US
[72] LOSKOT, STEVEN, US
[72] XUE, XIAOHUA, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-10-31
[86] 2021-04-28 (PCT/US2021/029641)
[87] (WO2021/222404)
[30] US (63/017,682) 2020-04-30

[21] **3,181,765**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 13/12 (2006.01) A61P 17/00 (2006.01) C07K 16/24 (2006.01)**

[25] EN

[54] **FORMULATIONS OF ANTI-IL-33 ANTIBODIES**

[54] **FORMULATIONS D'ANTICORPS ANTI-IL-33**

[72] EKIZOGLOU, SOFIA, GB
[72] AHMED, MAHAMMAD SYED MASTAFA, GB
[72] ESFANDIARY, REZA, US
[72] PARUPUDI, ARUN, US
[71] MEDIMMUNE LIMITED, GB
[85] 2022-10-28
[86] 2021-05-10 (PCT/EP2021/062310)
[87] (WO2021/228760)
[30] GR (20200100239) 2020-05-11

[21] **3,181,773**
[13] A1

[51] **Int.Cl. B09B 1/00 (2006.01)**

[25] EN

[54] **DEVICES AND TECHNIQUES RELATING TO LANDFILL GAS EXTRACTION**

[54] **DISPOSITIFS ET TECHNIQUES SE RAPPORTANT A L'EXTRACTION DE GAZ D'ENFOUISSEMENT**

[72] QUIGLEY, PETER, US
[72] MARTIN, IAN, US
[72] ROWBOTTOM, JACK, US
[72] NEFF, NICOLE, US
[71] LOCI CONTROLS, INC., US
[85] 2022-10-31
[86] 2021-07-07 (PCT/US2021/040653)
[87] (WO2022/015545)
[30] US (16/927,482) 2020-07-13
[30] US (16/927,488) 2020-07-13
[30] US (16/927,479) 2020-07-13
[30] US (16/927,471) 2020-07-13

[21] **3,181,774**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/07 (2010.01) A61K 39/00 (2006.01) A61P 31/12 (2006.01) C12N 15/09 (2006.01)**

[25] EN

[54] **SARS-COV-2-SPECIFIC T CELLS**

[54] **CELLULES T SPECIFIQUES AU SARS-COV-2**

[72] REZVANI, KATY, US
[72] SHPALL, ELIZABETH, US
[72] BASAR, RAFET, US
[72] MARIN COSTA, DAVID, US
[72] UPRETY, NADIMA, US
[72] ENSLEY, EMILY, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-10-31
[86] 2021-05-11 (PCT/US2021/070532)
[87] (WO2021/232048)
[30] US (63/022,896) 2020-05-11
[30] US (63/076,842) 2020-09-10

[21] **3,181,775**
[13] A1

[51] **Int.Cl. G16H 50/80 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AUTOMATED CONTACT TRACING**

[54] **SYSTEMES ET PROCEDES DE TRACAGE DE CONTACT AUTOMATISE**

[72] MESIROW, ROBERT, US
[72] PARODI, PATRICK, US
[72] MAZZIE, MARC, US
[72] BRADISH, STILLMAN, US
[72] MARINOVIC, SRDJAN, US
[71] PRICEWATERHOUSECOOPERS LLP, US
[85] 2022-10-31
[86] 2021-06-17 (PCT/US2021/037768)
[87] (WO2021/257794)
[30] US (63/041,646) 2020-06-19
[30] US (63/041,656) 2020-06-19
[30] US (63/041,662) 2020-06-19
[30] US (63/069,226) 2020-08-24

PCT Applications Entering the National Phase

[21] **3,181,776**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 37/06 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-PD-1 ANTIBODIES**
[54] **ANTICORPS ANTI-PD-1**
[72] BLAIR, DAVID A., US
[72] GARAFFA, NICOLE K., US
[72] GUPTA, PANKAJ, US
[72] GUPTA, PRIYANKA, US
[72] HAN, FEI, US
[72] KARLAK, AARON TIMOTHY, US
[72] LIU, DONGMEI, US
[72] LORENZ, IVO, US
[72] MBOW, MOUHAMADOU LAMINE, US
[72] MORENO-GARCIA, MIGUEL E., US
[72] MOZDZIERZ, JOSEPH A., US
[72] RALPH, KERRY L. M., US
[72] SHAABAN, ABDULSALAM, US
[72] WHITE, DELLA M., US
[72] WU, HELEN HAIXIA, US
[72] YANG, GUANGWEI, US
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[85] 2022-10-31
[86] 2021-05-24 (PCT/US2021/033823)
[87] (WO2021/242663)
[30] US (63/029,962) 2020-05-26
[30] US (63/039,686) 2020-06-16

[21] **3,181,777**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVE LEAFLET COMMISSURE ASSEMBLIES AND METHODS**
[54] **ENSEMBLES ET METHODES DE COMMISSURES DE FEUILLETS DE VALVULES CARDIAQUES PROTHETIQUES**
[72] ZAMANI, SHAHRAM, US
[72] O'DELL, TYLER DALE, US
[72] LEVI, TAMIR S., IL
[72] BUKIN, MICHAEL, IL
[72] NIR, NOAM, IL
[72] YOHANAN, ZIV, IL
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2022-10-31
[86] 2021-05-14 (PCT/US2021/032387)
[87] (WO2021/231824)
[30] US (63/024,951) 2020-05-14

[21] **3,181,778**
[13] A1

[51] **Int.Cl. G06F 9/451 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING AND RESIZING A WINDOW FOR IMPROVED CONTENT DELIVERY**
[54] **SYSTEME ET PROCEDE DE DETECTION ET DE REDIMENSIONNEMENT D'UNE FENETRE POUR UNE DISTRIBUTION DE CONTENU AMELIOREE**
[72] CHANG, WAYNE, US
[72] SEIBERT, JR., JEFFREY HALL, US
[71] DIGITS FINANCIAL, INC., US
[85] 2022-10-31
[86] 2021-05-12 (PCT/US2021/032028)
[87] (WO2021/231598)
[30] US (16/875,563) 2020-05-15

[21] **3,181,779**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 1/20 (2006.01) C07K 1/22 (2006.01) C07K 1/34 (2006.01) C07K 1/36 (2006.01) C07K 16/06 (2006.01)**
[25] EN
[54] **VIRAL CLEARANCE BY LOW PH HOLD**
[54] **CLAIRANCE VIRALE PAR MAINTIEN A UN FAIBLE PH**
[72] DAYA, JENA, US
[72] CUSICK, VALERIE ANN, US
[72] MATTILA, JOHN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-10-31
[86] 2021-05-11 (PCT/US2021/031825)
[87] (WO2021/231463)
[30] US (63/023,154) 2020-05-11

[21] **3,181,780**
[13] A1

[51] **Int.Cl. G16H 50/50 (2018.01) G16H 50/70 (2018.01)**
[25] EN
[54] **VIRTUAL OSTEOPOROSIS CLINIC**
[54] **CLINIQUE D'OSTEOPOROSE VIRTUELLE**
[72] JORG, DAVID J., DE
[72] FURTINGER, DORIS HELENE, DE
[72] KOTANKO, PETER, US
[72] CHERIF, ALHAJI, US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[71] FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH, DE
[85] 2022-10-31
[86] 2021-05-11 (PCT/US2021/031704)
[87] (WO2021/231374)
[30] US (15/930,353) 2020-05-12

[21] **3,181,781**
[13] A1

[25] EN
[54] **LOCATION-BASED CONTENT SHARING VIA TETHERING**
[54] **PARTAGE DE CONTENU A BASE DE LOCALISATION PAR FONCTION MODEM**
[72] MADDEN, MICHAEL E., US
[72] SNYDER, JESSE WILLIAM, US
[72] FYFE, JAKE TYLER, US
[72] WIACEK, JOHN, US
[72] GEER, MATTHEW W., US
[71] NANTG MOBILE, LLC, US
[85] 2022-10-31
[86] 2021-05-06 (PCT/US2021/031099)
[87] (WO2021/226339)
[30] US (63/021,282) 2020-05-07

Demandes PCT entrant en phase nationale

[21] **3,181,782**
[13] A1

[51] **Int.Cl. A61K 31/501 (2006.01) A61P 35/04 (2006.01) C07D 231/16 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **METHODS OF MANUFACTURING A BIFUNCTIONAL COMPOUND, ULTRAPURE FORMS OF THE BIFUNCTIONAL COMPOUND, AND DOSAGE FORMS COMPRISING THE SAME**

[54] **PROCEDES DE FABRICATION D'UN COMPOSE BIFONCTIONNEL, FORMES ULTRA-PURES DU COMPOSE BIFONCTIONNEL, ET FORMES POSOLOGIQUES LES COMPRENANT**

[72] DONG, HANQING, US
[72] DUGUID, ROBERT J., US
[72] JAGER, CASEY KEITH, US
[72] KAUSHAL, ADITYA MOHAN, US
[72] KENNEDY, SAMUEL ELLIOTT, US
[72] NEESER, MIRANDA ANSELL, US
[72] REEVE, MAXWELL MARCO, US
[72] REO, JOSEPH P., US
[72] ZAHEDI, MOHAMMAD MEHDI, US
[72] KATTUBOINA, VENKATA A., US
[72] ALLAN, LAURA E.N., GB
[72] CHEN, CHUNGPIN HERMAN, US
[72] GROSSO, JOHN A., US
[72] HASKELL, III, ROYAL J., US
[72] LLOYD, RHYS, GB
[72] REECE, HAYLEY, GB
[72] ROBERTSON, JEROD, US
[72] QIU, YUPING, US
[71] ARVINAS OPERATIONS, INC., US
[85] 2022-10-31
[86] 2021-05-06 (PCT/US2021/031091)
[87] (WO2021/231174)
[30] US (63/022,475) 2020-05-09
[30] US (63/149,143) 2021-02-12
[30] US (63/177,378) 2021-04-20

[21] **3,181,783**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/25 (2021.01) A61B 5/024 (2006.01) A61B 5/08 (2006.01) A61N 1/04 (2006.01) A61N 1/372 (2006.01)**

[25] EN

[54] **WEARABLE PHYSICAL HEALTH TESTING SYSTEMS AND ASSOCIATED DEVICES AND METHODS**

[54] **SYSTEMES PORTABLES DE TEST DE SANTE PHYSIQUE ET DISPOSITIFS ET PROCEDES ASSOCIES**

[72] RUSH, TRAVIS BENJAMIN, US
[72] WALLINGTON, MATTHEW ROBERT, US
[71] REPERIO HEALTH, INC., US
[85] 2022-10-31
[86] 2021-04-30 (PCT/US2021/030330)
[87] (WO2021/222854)
[30] US (63/019,154) 2020-05-01

[21] **3,181,786**
[13] A1

[51] **Int.Cl. A61K 31/17 (2006.01) C07C 275/16 (2006.01) C07C 275/24 (2006.01)**

[25] EN

[54] **INHIBITORS OF ALPHA 2 BETA 1 INTEGRIN AND METHODS OF USE THEREOF**

[54] **INHIBITEURS DE L'INTEGRINE ALPHA 2 BETA 1 ET LEURS PROCEDES D'UTILISATION**

[72] SHEPPARD, DEAN, US
[72] DEGRADO, WILLIAM F., US
[72] SUNDARAM, APARNA, US
[72] JO, HYUNIL, US
[72] BERESIS, RICHARD, US
[72] ADLER, MARC, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] SHANGPHARMA INNOVATION INC., US
[85] 2022-10-31
[86] 2021-04-30 (PCT/US2021/030233)
[87] (WO2021/222789)
[30] US (63/019,023) 2020-05-01

[21] **3,181,787**
[13] A1

[51] **Int.Cl. G06N 3/02 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **DEEP LEARNING PLATFORMS FOR AUTOMATED VISUAL INSPECTION**

[54] **PLATES-FORMES D'APPRENTISSAGE PROFOND POUR INSPECTION VISUELLE AUTOMATISEE**

[72] MILNE, GRAHAM F., US
[72] PEARSON, THOMAS CLARK, US
[72] HAMPSHIRE, KENNETH E., US
[72] BERNACKI, JOSEPH PETER, US
[72] QUINLAN, MARK, US
[72] FINE, JORDAN RAY, US
[71] AMGEN INC., US
[85] 2022-10-31
[86] 2021-04-30 (PCT/US2021/030071)
[87] (WO2021/225876)
[30] US (63/020,232) 2020-05-05
[30] US (63/120,505) 2020-12-02

[21] **3,181,788**
[13] A1

[51] **Int.Cl. C12Q 1/70 (2006.01) C12Q 1/37 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **VIRAL TESTING IN SALIVA**

[54] **TEST VIRAL DANS LA SALIVE**

[72] LU, SHI-LONG, US
[72] HARRY, BRIAN L., US
[72] ZEVALLOS, JOSE P., US
[72] BLOMQUIST, ROBERT E., US
[72] YAO, XIN, US
[72] QIU, YUE, US
[72] THARAKAN, MARSHA T., US
[71] LU, SHI-LONG, US
[71] HARRY, BRIAN L., US
[71] ZEVALLOS, JOSE P., US
[71] BLOMQUIST, ROBERT E., US
[71] YAO, XIN, US
[71] QIU, YUE, US
[71] THARAKAN, MARSHA T., US
[85] 2022-10-31
[86] 2021-04-29 (PCT/US2021/029897)
[87] (WO2021/222569)
[30] US (63/017,354) 2020-04-29

PCT Applications Entering the National Phase

[21] **3,181,789**
[13] A1

[51] **Int.Cl. F16M 11/12 (2006.01) H04N 5/655 (2006.01)**
[25] EN
[54] **FLAT PANEL DISPLAY MOUNT WITH SWIVEL FEATURE**
[54] **SUPPORT D'AFFICHAGE A PANNEAU PLAT DOTE D'UN ELEMENT PIVOTANT**
[72] KOLZ, JUSTIN, US
[72] GRULKOWSKI, AARON, US
[72] GRUNERUD, WYATT, US
[71] LEGRAND AV INC., US
[85] 2022-10-28
[86] 2021-04-29 (PCT/US2021/029978)
[87] (WO2021/222631)
[30] US (63/017,072) 2020-04-29

[21] **3,181,790**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61P 35/00 (2006.01) C07D 239/95 (2006.01) C07D 401/12 (2006.01) C07D 403/06 (2006.01) C07D 403/12 (2006.01) C07D 417/04 (2006.01) C07D 471/04 (2006.01) C07D 473/04 (2006.01)**
[25] EN
[54] **AMIDOPYRIMIDONE DERIVATIVES**
[54] **DERIVES D'AMIDOPYRIMIDONE**
[72] BELL, ANDREW SIMON, GB
[72] BESNARD, JEREMY, GB
[72] BRADLEY, ANTHONY RICHARD, GB
[72] GREEN, LUKE, CH
[72] HAAP, WOLFGANG, CH
[72] KOCER, BUELENT, CH
[72] KUGLSTATTER, ANDREAS, CH
[72] LUCAS, XAVIER, CH
[72] MATTEI, PATRIZIO, CH
[72] MAZUNIN, DMITRY, CH
[72] RATNI, HASANE, CH
[72] RIEMER, CLAUS, CH
[72] VAN HOORN, WILLEM PAUL, GB
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2022-10-28
[86] 2021-06-21 (PCT/EP2021/066725)
[87] (WO2021/259815)
[30] EP (20181341.7) 2020-06-22

[21] **3,181,792**
[13] A1

[51] **Int.Cl. A62B 35/00 (2006.01)**
[25] EN
[54] **SAFETY LINE SYSTEM AND ANCHOR DEVICE**
[54] **SYSTEME DE LIGNE DE SECURITE ET DISPOSITIF D'ANCRAGE**
[72] SQUIRE, JACOB THACKERAY, GB
[71] LATCHWAYS PLC, GB
[85] 2022-10-28
[86] 2021-04-23 (PCT/GB2021/050986)
[87] (WO2021/219978)
[30] GB (2006466.3) 2020-05-01

[21] **3,181,793**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 11/00 (2006.01) A61P 17/06 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **IMIDAZOPYRIMIDINES AS MODULATORS OF IL-17**
[54] **IMIDAZOPYRIMIDINES EN TANT QUE MODULATEURS DE L'IL-17**
[72] XUE, XIAOHUA, US
[72] GOLDBERG, STEVEN, US
[72] MARTIN, CONNOR, US
[72] RHORER, TIMOTHY B., US
[72] TANIS, VIRGINIA M., US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-10-28
[86] 2021-04-28 (PCT/IB2021/053517)
[87] (WO2021/220183)
[30] US (63/017,679) 2020-04-30

[21] **3,181,794**
[13] A1

[51] **Int.Cl. C07C 237/26 (2006.01) A61K 31/65 (2006.01) A61P 19/04 (2006.01) A61P 29/00 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **MYRISTOYL DERIVATIVES OF 9-AMINO-DOXYCYCLINE FOR TARGETING CANCER STEM CELLS AND PREVENTING METASTASIS**
[54] **DERIVES MYRISTOYLE DE 9-AMINO-DOXYCYCLINE POUR CIBLER DES CELLULES SOUCHES CANCEREUSES ET PREVENIR LES METASTASES**
[72] LISANTI, MICHAEL P., GB
[72] SOTGIA, FEDERICA, GB
[72] OZSVARI, BELA, GB
[72] KANGASMETSA, JUSSI, GB
[71] LUNELLA BIOTECH, INC., CA
[85] 2022-10-28
[86] 2021-05-13 (PCT/IB2021/054111)
[87] (WO2021/229499)
[30] US (63/024,216) 2020-05-13

[21] **3,181,795**
[13] A1

[51] **Int.Cl. B22D 11/00 (2006.01) B22D 11/111 (2006.01) C21C 5/36 (2006.01) C21C 5/54 (2006.01) C21C 7/00 (2006.01) C21C 7/04 (2006.01) C21C 7/06 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01) C22C 38/32 (2006.01)**
[25] EN
[54] **A METHOD OF CASTING A STEEL SEMI-PRODUCT WITH HIGH TITANIUM CONTENT**
[54] **PROCEDE DE COULAGE D'UN DEMI-PRODUIT D'ACIER A HAUTE TENEUR EN TITANE**
[72] BONNET, FREDERIC, FR
[72] DAESCHLER, VALERIE, FR
[72] MASTRORILLO, THIERRY, FR
[71] ARCELORMITTAL, LU
[85] 2022-10-28
[86] 2021-07-07 (PCT/IB2021/056078)
[87] (WO2022/009108)
[30] IB (PCT/IB2020/056418) 2020-07-08

Demandes PCT entrant en phase nationale

[21] **3,181,796**
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01) G02C 7/02 (2006.01) G02C 7/04 (2006.01) G02C 7/06 (2006.01)**

[25] EN

[54] **OPTICAL LENS DESIGN FOR FLATTENING A THROUGH-FOCUS CURVE**

[54] **CONCEPTION DE LENTILLE OPTIQUE POUR L'APLANISSEMENT D'UNE COURBE DE MISE AU POINT**

[72] WEI, XIN, US
[72] JUBIN, PHILIPPE F., US
[72] NANKIVIL, DEREK, US
[72] CHEN, MINGHAN, US
[72] WILLIBY, GREGORY, US
[71] JOHNSON & JOHNSON VISION CARE, INC., US

[85] 2022-10-28
[86] 2021-09-21 (PCT/IB2021/058600)
[87] (WO2022/064363)
[30] US (17/034,017) 2020-09-28

[21] **3,181,798**
[13] A1

[51] **Int.Cl. H04L 1/00 (2006.01) H04W 84/12 (2009.01) H04L 5/00 (2006.01) H04L 27/26 (2006.01)**

[25] EN

[54] **PILOT SIGNAL FOR 80 MHZ**

[54] **SIGNAL PILOTE POUR 80 MHZ**

[72] CHUN, JINYOUNG, KR
[72] CHOI, JINSOO, KR
[72] LIM, DONGGUK, KR
[72] PARK, EUNSUNG, KR
[71] LG ELECTRONICS INC., KR

[85] 2022-10-28
[86] 2021-03-04 (PCT/KR2021/002676)
[87] (WO2021/221289)
[30] KR (10-2020-0052760) 2020-04-29
[30] KR (10-2020-0053112) 2020-05-04
[30] KR (10-2020-0064536) 2020-05-28
[30] KR (10-2020-0067742) 2020-06-04

[21] **3,181,799**
[13] A1

[51] **Int.Cl. G06T 1/20 (2006.01)**

[25] EN

[54] **METHOD TO PERFORM COMPUTATION AT OR NEAR THE SPEED OF LIGHT (TYPICAL) DIGITAL IMAGE-TO-BINARY SINGULAR OR MULTIPLE-NODES/SERVERS AND COMPUTER ARCHITECTURE**

[54] **PROCEDE DE REALISATION DE CALCUL A OU PROCHE DE LA VITESSE DE LA LUMIERE AU NIVEAU DE NOEUDS/SERVEURS MULTIPLES OU INDIVIDUELS POUR LA CONVERSION D'IMAGE NUMERIQUE (TYPIQUE) EN BINAIRE ET ARCHITECTURE INFORMATIQUE**

[72] CABRITA PAIS HOMEM, LUIS MANUEL, PT
[71] CABRITA PAIS HOMEM, LUIS MANUEL, PT

[85] 2022-10-28
[86] 2021-05-18 (PCT/PT2021/050014)
[87] (WO2021/235960)
[30] PT (116408) 2020-05-20

[21] **3,181,800**
[13] A1

[51] **Int.Cl. B65H 75/44 (2006.01) H02K 1/27 (2022.01) H02K 7/14 (2006.01) H02K 21/24 (2006.01) H02G 11/02 (2006.01)**

[25] FR

[54] **DEVICE FOR WINDING OR UNWINDING A LINE**

[54] **DISPOSITIF D'ENROULEMENT/DEROULEMENT D'UN LIEN**

[72] BERGER, JEAN-MICHEL, FR
[72] PARSEIHIAN, BRUNO, FR
[72] FOURNIER, YOHAN, FR
[71] CONDUCTIX WAMPFLER FRANCE, FR

[85] 2022-11-01
[86] 2021-05-18 (PCT/FR2021/050865)
[87] (WO2021/234272)
[30] FR (2005124) 2020-05-19

[21] **3,181,801**
[13] A1

[51] **Int.Cl. F16H 1/32 (2006.01)**

[25] FR

[54] **DEVICE FOR WINDING/UNWINDING A LINK**

[54] **DISPOSITIF D'ENROULEMENT/DEROULEMENT D'UN LIEN**

[72] BERGER, JEAN-MICHEL, FR
[72] PARSEIHIAN, BRUNO, FR
[72] FOURNIER, YOHAN, FR
[71] CONDUCTIX WAMPFLER FRANCE, FR

[85] 2022-11-01
[86] 2021-05-18 (PCT/FR2021/050866)
[87] (WO2021/234273)
[30] FR (F2005123) 2020-05-19

[21] **3,181,803**
[13] A1

[51] **Int.Cl. A61K 35/76 (2015.01) C12N 15/113 (2010.01) A61P 31/14 (2006.01)**

[25] EN

[54] **THERAPEUTIC INTERFERING PARTICLES FOR CORONA VIRUS**

[54] **PARTICULES D'INTERFERENCE THERAPEUTIQUES POUR CORONAVIRUS**

[72] CHATURVEDI, SONALI, US
[72] RODICK, ROBERT, US
[72] WEINBERGER, LEOR S., US
[71] THE J. DAVID GLADSTONE INSTITUTES, A TESTAMENTARY TRUST ESTABLISHED UNDER THE WILL OF J. DAVID GLADSTONE, US

[71] VXBIOSCIENCES, INC., US

[85] 2022-10-24
[86] 2021-04-23 (PCT/US2021/028809)
[87] (WO2021/216979)
[30] US (63/014,394) 2020-04-23

PCT Applications Entering the National Phase

[21] **3,181,882**
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61K 9/36 (2006.01) A61K 31/351 (2006.01) A61K 31/381 (2006.01) A61K 31/382 (2006.01) A61K 31/4155 (2006.01) A61K 31/7048 (2006.01) A61K 47/38 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **TREATING UNTREATED OR TREATMENT-RESISTANT DIABETES WITH GLUCOKINASE ACTIVATOR AND SODIUM-GLUCOSE COTRANSPORTER-2 INHIBITOR**

[54] **TRAITEMENT D'UN DIABETE NON TRAITE OU RESISTANT AU TRAITEMENT AU MOYEN D'UN ACTIVATEUR DE GLUCOKINASE ET D'UN INHIBITEUR DU COTRANSPORTEUR DE SODIUM-GLUCOSE DE TYPE 2**

[72] CHEN, LI, CN
[72] REN, SHUANG, CN
[72] ZHANG, JIAYI, CN
[71] HUA MEDICINE (SHANGHAI) LTD., CN
[85] 2022-10-12
[86] 2020-04-22 (PCT/CN2020/086100)
[87] (WO2021/212360)

[21] **3,181,913**
[13] A1

[51] **Int.Cl. A01N 65/26 (2009.01) A01N 63/20 (2020.01) A01N 63/23 (2020.01) A01N 63/30 (2020.01) A01N 63/40 (2020.01) A01N 63/50 (2020.01) A01N 37/46 (2006.01) A01N 59/14 (2006.01) A01P 7/04 (2006.01)**

[25] EN

[54] **INSECTICIDAL COMBINATIONS**

[54] **COMBINAISONS INSECTICIDES**

[72] SCHNEIDER, KYLE, US
[72] DAVIS, BRECK, US
[72] TOURTOIS, JOSEPH, US
[72] HULBERT, DANIEL, US
[71] VESTARON CORPORATION, US
[85] 2022-11-01
[86] 2021-04-30 (PCT/US2021/030277)
[87] (WO2021/222814)
[30] US (63/019,219) 2020-05-01

[21] **3,181,914**
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/55 (2013.01) G06F 21/60 (2013.01) H04B 10/85 (2013.01)**

[25] EN

[54] **SECURE CLASSICAL OPTICAL COMMUNICATION USING QUANTUM TECHNIQUES**

[54] **COMMUNICATION OPTIQUE CLASSIQUE SECURISEE METTANT EN ŒUVRE DES TECHNIQUES QUANTIQUES**

[72] HUNT, JEFFREY H., US
[72] GONG, YUPENG, GB
[72] PENTY, RICHARD VINCENT, GB
[72] WHITE, IAN, GB
[72] WONFOR, ADRIAN, GB
[71] THE BOEING COMPANY, US
[71] THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE OF THE OLD SCHOOLS, GB
[85] 2022-11-01
[86] 2021-05-04 (PCT/US2021/030648)
[87] (WO2022/015395)
[30] US (63/022,088) 2020-05-08

[21] **3,181,915**
[13] A1

[51] **Int.Cl. A61K 8/20 (2006.01) A61K 8/21 (2006.01) A61K 8/25 (2006.01) A61K 8/365 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **REMNERALIZING ORAL CARE COMPOSITIONS COMPRISING TIN**

[54] **COMPOSITIONS DE SOIN BUCCAL POUR REMNERALISATION COMPRENANT DE L'ETAIN**

[72] BAIG, ARIF ALI, US
[72] BIESBROCK, AARON REED, US
[72] GROTH, ANDREW FREDERIC, US
[72] ST. JOHN, SAMUEL JAMES, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-11-01
[86] 2021-05-05 (PCT/US2021/030756)
[87] (WO2021/226158)
[30] US (63/020,037) 2020-05-05

[21] **3,181,916**
[13] A1

[51] **Int.Cl. A61K 8/20 (2006.01) A61K 8/21 (2006.01) A61K 8/25 (2006.01) A61K 8/365 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS COMPRISING TIN**

[54] **COMPOSITIONS D'HYGIENE BUCCALE COMPRENANT DE L'ETAIN**

[72] BAIG, ARIF ALI, US
[72] BIESBROCK, AARON REED, US
[72] ENEKABOR, EHINOMEN CHRISTINE, US
[72] HOYING, JUDY LYNN, US
[72] JONES, GREGORY T., US
[72] ST. JOHN, SAMUEL JAMES, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-11-01
[86] 2021-05-05 (PCT/US2021/030758)
[87] (WO2021/226159)
[30] US (63/020,036) 2020-05-05
[30] US (63/020,037) 2020-05-05

[21] **3,181,917**
[13] A1

[51] **Int.Cl. A61K 31/513 (2006.01) A61K 31/519 (2006.01) A61P 25/28 (2006.01) C07D 239/70 (2006.01) C07D 239/95 (2006.01) C07D 255/00 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF VERDIPERSTAT**

[54] **PROCEDE DE PREPARATION DE VERDIPERSTAT**

[72] PENDRI, YADAGIRI R., IN
[72] KATHAM, SRINIVASA, IN
[72] MENDE, SREENIVAS, IN
[72] KEDAS, CHENDRASEKHAR, IN
[72] KANDIYALA, SRINIVASA, IN
[72] CHILAKALA, DHANARAJ, IN
[71] BIOHAVEN THERAPEUTICS LTD., US
[85] 2022-11-01
[86] 2021-05-05 (PCT/US2021/030766)
[87] (WO2021/226161)
[30] US (63/021,041) 2020-05-06

Demandes PCT entrant en phase nationale

[21] **3,181,918**
[13] A1

[51] **Int.Cl. A61K 8/27 (2006.01) A61K 8/34 (2006.01) A61K 8/368 (2006.01) A61K 8/37 (2006.01) A61K 8/42 (2006.01) A61K 8/44 (2006.01) A61K 8/46 (2006.01) A61K 8/49 (2006.01) A61Q 19/10 (2006.01)**

[25] EN

[54] **COMPOSITIONS WITH NON-ETHOXYLATED SURFACTANS AND CO-SURFACTANTS ACHIEVING GOOD PRODUCT CONSISTENCY AND PERFORMANCE**

[54] **COMPOSITIONS COMPRENANT DES TENSIOACTIFS ET DES CO-TENSIOACTIFS NON ETHOXYLES PERMETTANT D'OBTENIR UNE BONNE CONSISTANCE ET DE BONNES PERFORMANCES DU PRODUIT**

[72] JOHNSON, ERIC SCOTT, US

[72] NALLY, KAREN MICHELLE, US

[72] HURLEY, BRIAN MICHAEL, US

[72] STELZER, TARYN, US

[72] HUTTON, HOWARD DAVID, III, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2022-11-01

[86] 2021-05-05 (PCT/US2021/030784)

[87] (WO2021/226171)

[30] US (63/020,328) 2020-05-05

[21] **3,181,919**
[13] A1

[51] **Int.Cl. F41G 11/00 (2006.01) F41C 27/00 (2006.01) G02B 23/16 (2006.01) G03B 29/00 (2021.01)**

[25] EN

[54] **VIEWING OPTIC WITH AN ENABLER INTERFACE**

[54] **OPTIQUE DE VISUALISATION DOTE E D'UNE INTERFACE D'ACTIVATEUR**

[72] HAVENS, CALEN, US

[72] HAMILTON, SAMUEL, US

[72] KLEMM, LAN, US

[72] CODY, TOM, US

[72] SCHULTZ, CRAIG, US

[72] BOLLIG, GARRISON, US

[72] CARLSON, ANDY, US

[72] LOWRY, WILLIAM, US

[72] TAYLOR, CORY, US

[72] RUE, TIM, US

[72] LEWIS, ALEXANDER, US

[71] SHELTERED WINGS, INC. D/B/A VORTEX OPTICS, US

[85] 2022-11-01

[86] 2021-05-05 (PCT/US2021/030874)

[87] (WO2021/226228)

[30] US (63/020,394) 2020-05-05

[21] **3,181,920**
[13] A1

[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/32 (2012.01)**

[25] EN

[54] **PERSONALIZED QR CODES FOR ATM AUTHENTICATION**

[54] **CODES QR PERSONNALISEES POUR AUTHENTICATION ATM**

[72] PHILLIPS, JEREMY J., US

[72] SHETH, ASHAY, US

[71] CAPITAL ONE SERVICES, LLC, US

[85] 2022-11-01

[86] 2021-04-14 (PCT/US2021/027247)

[87] (WO2021/236261)

[30] US (16/878,357) 2020-05-19

[21] **3,181,921**
[13] A1

[51] **Int.Cl. E21B 47/26 (2012.01) E21B 44/04 (2006.01) E21B 47/12 (2012.01)**

[25] EN

[54] **USER INTERFACE FOR PROVIDING GUIDANCE ON DRILLING OPERATIONS AND DYNAMIC REPORTING OF RELEVANT DATA**

[54] **INTERFACE UTILISATEUR POUR DONNER DES DIRECTIVES SUR DES OPERATIONS DE FORAGE ET LA COMMUNICATION DYNAMIQUE DE DONNEES PERTINENTES**

[72] BRYANT, JASON, US

[72] GALLO COVARRUBIAS, RODRIGO, US

[72] ABAD, DANIEL, US

[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2022-11-01

[86] 2021-04-28 (PCT/US2021/029663)

[87] (WO2021/222419)

[30] US (63/018,986) 2020-05-01

[21] **3,181,922**
[13] A1

[51] **Int.Cl. A61K 31/513 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **CD73 INHIBITING 2,4-DIOXOPYRIMIDINE COMPOUNDS**

[54] **COMPOSES DE 2,4-DIOXOPYRIMIDINE INHIBANT CD73**

[72] BARTLETT, MARK J., US

[72] CHIN, GREGORY F., US

[72] CLARKE, MICHAEL O., US

[72] COSMAN, JENNIFER L., US

[72] ENSAN, DEEBA, US

[72] GOYAL, BINDU, US

[72] HO, STEPHEN, US

[72] HUI, HON C., US

[72] MACKMAN, RICHARD L., US

[72] MISH, MICHAEL R., US

[72] SCHROEDER, SCOTT D., US

[72] SHAPIRO, NATHAN D., US

[72] SIEGEL, DUSTIN S., US

[72] TANG, DORIS T., US

[72] YANG, HAI, US

[71] GILEAD SCIENCES, INC., US

[85] 2022-11-01

[86] 2021-04-29 (PCT/US2021/029828)

[87] (WO2021/222522)

[30] US (63/018,774) 2020-05-01

[30] US (63/149,803) 2021-02-16

PCT Applications Entering the National Phase

[21] **3,181,925**
[13] A1

[51] **Int.Cl. F16G 3/08 (2006.01) F16G 3/10 (2006.01) F16G 11/04 (2006.01) F16G 11/06 (2006.01)**

[25] FR

[54] **CABLE CONVEYOR BELT JUNCTION DEVICE PROVIDED WITH CABLE LOCKING ELEMENTS**

[54] **DISPOSITIF DE JONCTION DE BANDE TRANSPORTEUSE A CABLES MUNI D'ELEMENTS DE BLOCAGE DE CABLE**

[72] TAVERNIER, BERNARD, FR

[72] GUILLEMET, FREDERIC, FR

[71] FP BUSINESS INVEST, FR

[85] 2022-10-28

[86] 2021-05-29 (PCT/EP2021/064465)

[87] (WO2021/240008)

[30] FR (2005721) 2020-05-29

[21] **3,181,926**
[13] A1

[51] **Int.Cl. D21B 1/00 (2006.01) A61K 8/00 (2006.01) A61Q 5/00 (2006.01) C11D 3/00 (2006.01) C11D 9/00 (2006.01)**

[25] EN

[54] **SUSPENSION STABILIZER AGENT**

[54] **AGENT STABILISATEUR DE SUSPENSION**

[72] MAI, ESTEVAO FRIGINI, BR

[72] SIQUEIRA, GERMANO ANDRADE, BR

[72] GUIMARAES, MATHEUS ANTUNES, BR

[72] VIEIRA, RICHIELI TELES, BR

[71] SUZANO S.A., BR

[85] 2022-11-01

[86] 2021-05-11 (PCT/BR2021/050197)

[87] (WO2021/226694)

[30] US (63/023,056) 2020-05-11

[21] **3,181,928**
[13] A1

[51] **Int.Cl. H04B 10/2569 (2013.01)**

[25] EN

[54] **FULL CONTROL OF POLARISATION IN FIBRE DELIVERED LIGHT FOR HARSH ENVIRONMENTS**

[54] **CONTROLE TOTAL DE LA POLARISATION DANS UNE LUMIERE DELIVREE PAR DES FIBRES POUR ENVIRONNEMENTS HOSTILES**

[72] GAUDREAU, LOUIS, CA

[72] PHOENIX, JASON, CA

[72] STUDENIKIN, SERGEI, CA

[72] KORKUSINSKI, MAREK, CA

[72] BOGAN, BOGAN, CA

[72] SACHRAJDA, ANDREW, CA

[72] WILLIAMS, ROBIN, CA

[72] ZAWADZKI, PIOTR, CA

[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[85] 2022-11-01

[86] 2021-05-05 (PCT/CA2021/050631)

[87] (WO2021/223027)

[30] US (63/020,637) 2020-05-06

[30] US (63/111,207) 2020-11-09

[21] **3,181,929**
[13] A1

[25] FR

[54] **FORMULATION COMPRISING A P-TYPE ORGANIC SEMICONDUCTOR MATERIAL AND AN N-TYPE SEMICONDUCTOR MATERIAL**

[54] **FORMULATION COMPRENANT UN MATERIAU SEMICONDUCTEUR ORGANIQUE DE TYPE P ET UN MATERIAU SEMICONDUCTEUR DE TYPE N**

[72] LHEUREUX, ALEX, FR

[72] SARACCO, EMELINE, FR

[72] BOUTHINON, BENJAMIN, FR

[71] ISORG, FR

[85] 2022-11-01

[86] 2020-06-22 (PCT/EP2020/067377)

[87] (WO2020/260211)

[30] FR (FR1906819) 2019-06-24

[21] **3,181,930**
[13] A1

[51] **Int.Cl. G07C 5/00 (2006.01) G07C 5/08 (2006.01)**

[25] EN

[54] **METHOD AND DIAGNOSTIC DEVICE FOR PERFORMING VEHICLE DIAGNOSTICS**

[54] **PROCEDE ET DISPOSITIF DE DIAGNOSTIC POUR EFFECTUER DES DIAGNOSTICS DE VEHICULE**

[72] GUTLEIN, MARTIN, DE

[72] RIEGGER, UWE, DE

[71] HELLA GUTMANN SOLUTIONS GMBH, DE

[85] 2022-11-01

[86] 2021-05-04 (PCT/EP2021/061617)

[87] (WO2021/224202)

[30] EP (20173583.4) 2020-05-07

[21] **3,181,932**
[13] A1

[51] **Int.Cl. C03C 17/00 (2006.01) C03C 17/02 (2006.01)**

[25] EN

[54] **IMPROVEMENT OF GLASS STRENGTH AND FRACTURE TOUGHNESS BY A NON-BRITTLE ABRASION RESISTANT COATING**

[54] **AMELIORATION DE LA RESISTANCE DU VERRE ET DE SA TENACITE A LA RUPTURE PAR UN REVETEMENT NON CASSANT RESISTANT A L'ABRASION**

[72] BROWN, JOHN, DE

[72] YOLDAS, BULENT, DE

[72] SAUER, THOMAS C., DE

[71] EXXERGY GMBH, DE

[85] 2022-11-01

[86] 2021-05-06 (PCT/EP2021/061956)

[87] (WO2021/224372)

[30] DE (10 2020 112 268.3) 2020-05-06

Demandes PCT entrant en phase nationale

[21] **3,181,937**
[13] A1

[51] **Int.Cl. F16S 3/08 (2006.01) B32B 3/12 (2006.01)**
[25] EN
[54] **FLEXIBLE HONEYCOMB STRUCTURE AND MANUFACTURING METHOD FOR FLEXIBLE HONEYCOMB STRUCTURE**
[54] **STRUCTURE EN NID D'ABEILLE SOUPLE ET SON PROCEDE DE FABRICATION**
[72] ZHENG, LIGANG, CN
[72] PAN, ZHIJIN, CN
[71] BEIJING ANDER TECHNOLOGIES, CN
[71] MA'ANSHAN ANDER TECHNOLOGIES, CN
[85] 2022-11-01
[86] 2020-10-22 (PCT/CN2020/122861)
[87] (WO2021/238038)
[30] CN (202010456879.6) 2020-05-26

[21] **3,181,939**
[13] A1

[51] **Int.Cl. G16H 20/70 (2018.01) G16H 50/30 (2018.01) A61B 5/11 (2006.01)**
[25] EN
[54] **TRIGGERING METHOD AND TRIGGERING APPARATUS OF INTERVENTION PROMPT ON THE BASIS OF USER SMOKING BEHAVIOR RECORDS**
[54] **PROCEDE DE DECLENCHEMENT ET APPAREIL DE DECLENCHEMENT D'INVITE D'INTERVENTION SUR LA BASE D'ENREGISTREMENTS DE COMPORTEMENT DE TABAGISME D'UTILISATEUR**
[72] ZHANG, JING, CN
[72] WU, CONGYANG, CN
[72] XU, ZHIYU, CN
[72] XING, LICONG, CN
[72] ZHANG, GE, CN
[71] MCNEIL AB, SE
[85] 2022-11-01
[86] 2021-05-14 (PCT/CN2021/093799)
[87] (WO2021/228220)
[30] CN (202010417547.7) 2020-05-15

[21] **3,181,940**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 31/427 (2006.01) A61K 31/513 (2006.01) A61K 31/706 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **USES AND FORMULATIONS OF CANNABINOIDS**
[54] **UTILISATIONS ET FORMULATIONS DE CANNABINOIDES**
[72] NOWAK, REINHARD, DE
[72] NOWAK, MIRKO, DE
[72] NOWAK, JESKO JAY, DE
[72] POLLINGER, NORBERT, DE
[71] ADD ADVANCED DRUG DELIVERY TECHNOLOGIES LTD., CH
[85] 2022-11-01
[86] 2020-05-11 (PCT/EP2020/063086)
[87] (WO2021/228365)

[21] **3,181,941**
[13] A1

[51] **Int.Cl. F41A 5/20 (2006.01) F41A 5/26 (2006.01) F41A 5/28 (2006.01)**
[25] EN
[54] **GAS SYSTEM OF A FIREARM**
[54] **SYSTEME DE GAZ D'UNE ARME A FEU**
[72] SCHRODL, CHRISTOPH, FI
[72] TORMANEN, HANNU, FI
[71] SAKO OY, FI
[85] 2022-11-01
[86] 2021-05-20 (PCT/EP2021/063474)
[87] (WO2021/234090)
[30] FI (20205509) 2020-05-20

[21] **3,181,942**
[13] A1

[51] **Int.Cl. F41A 11/00 (2006.01) F41A 17/66 (2006.01)**
[25] EN
[54] **FIRING PIN SAFETY OF A FIREARM**
[54] **SECURITE DE PERCUTEUR D'UNE ARME A FEU**
[72] SCHRODL, CHRISTOPH, FI
[71] SAKO OY, FI
[85] 2022-11-01
[86] 2021-05-20 (PCT/EP2021/063477)
[87] (WO2021/234093)

[21] **3,181,943**
[13] A1

[51] **Int.Cl. A61K 31/77 (2006.01) A61K 38/48 (2006.01) A61P 9/10 (2006.01) C12N 9/72 (2006.01)**
[25] EN
[54] **SLOW RELEASE PLASMINOGEN ACTIVATOR FORMULATION FOR USE IN THE TREATMENT OF THROMBOTIC OR HAEMORRHAGIC DISEASE**
[54] **FORMULATION D'ACTIVATEUR DE PLASMINOGENE A LIBERATION LENTE DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT D'UNE MALADIE THROMBOTIQUE OU HEMORRAGIQUE**
[72] PARCQ, JEROME, FR
[72] GAUDIN, CHRISTOPHE, FR
[72] LOUET, ESTELLE, FR
[72] GUICHARD, MARIE-JULIE, FR
[71] OP2LYSIS, FR
[85] 2022-11-01
[86] 2021-05-11 (PCT/EP2021/062400)
[87] (WO2021/228800)
[30] EP (20305462.2) 2020-05-11

[21] **3,181,945**
[13] A1

[51] **Int.Cl. A61K 9/48 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **HARD CAPSULE DOSAGE FORM AND USES THEREOF**
[54] **FORME POSOLOGIQUE DE CAPSULE DURE ET SES UTILISATIONS**
[72] ELSIDDIG, REEM ELAMEIN, IE
[72] NULTY, COLM, IE
[71] EIRGEN PHARMA LTD., IE
[85] 2022-11-01
[86] 2021-05-31 (PCT/IB2021/000376)
[87] (WO2021/245458)
[30] US (63/032,714) 2020-05-31
[30] IB (PCT/IB2021/000220) 2021-04-06

PCT Applications Entering the National Phase

[21] **3,181,947**
[13] A1

[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/08 (2006.01)**
[25] EN
[54] **PORTABLE ELECTROMECHANICAL RESUSCITATOR BAG SINGLE SIDED COMPRESSION DEVICE**
[54] **DISPOSITIF DE COMPRESSION SIMPLE FACE DE BALLON DE REANIMATION ELECTROMECHANIQUE PORTATIF**
[72] COOPER, LISA MARGARET, CA
[72] KENWORTHY, GARETH ALAN, CA
[72] OLAKULEHIN, OLADAYO EMMANUEL, CA
[72] MINATO, RAYMOND JOHN, CA
[71] LIGAND INNOVATION GLOBAL LTD., CA
[85] 2022-11-01
[86] 2021-04-30 (PCT/IB2021/053613)
[87] (WO2021/220234)
[30] US (63/018,581) 2020-05-01

[21] **3,181,949**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 1/00 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CROHN'S DISEASE WITH ANTI-IL23 SPECIFIC ANTIBODY**
[54] **PROCEDES DE TRAITEMENT DE LA MALADIE DE CROHN AU MOYEN D'UN ANTICORPS SPECIFIQUE ANTI-IL23**
[72] ADEDOKUN, OMONIYI, US
[72] CHAN, DAPHNE, US
[72] CHEN, YANG, US
[72] SZAPARY, PHILIPPE, US
[71] JANSSEN BIOTECH, INC., US
[85] 2022-11-01
[86] 2021-05-05 (PCT/IB2021/053799)
[87] (WO2021/224823)
[30] US (63/020,120) 2020-05-05
[30] US (63/170,121) 2021-04-02
[30] US (63/180,973) 2021-04-28

[21] **3,181,951**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/50 (2006.01) A61K 31/05 (2006.01) A61K 45/06 (2006.01) A61P 1/04 (2006.01) A61P 1/08 (2006.01) A61P 1/12 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING THYMOL FOR USE IN THE TREATMENT OF INFLAMMATORY OR FUNCTIONAL BOWEL DISORDERS BY MODULATING THE ENDOCANNABINOID SYSTEM**
[54] **COMPOSITIONS COMPRENANT DU THYMOL POUR UNE UTILISATION DANS LE TRAITEMENT DE TROUBLES INTESTINAUX INFLAMMATOIRES OU FONCTIONNELS PAR MODULATION DU SYSTEME ENDOCANNABINOIDE**
[72] PIVA, ANDREA, IT
[72] GRILLI, ESTER, IT
[71] VETAGRO INTERNATIONAL S.R.L., IT

[85] 2022-11-01
[86] 2021-05-05 (PCT/IB2021/053803)
[87] (WO2021/224825)
[30] IT (10202000009922) 2020-05-05

[21] **3,181,952**
[13] A1

[51] **Int.Cl. A61K 38/13 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) C07K 7/64 (2006.01)**
[25] EN
[54] **METHODS OF TREATING OR PREVENTING CORONAVIRUS INFECTION**
[54] **METHODES DE TRAITEMENT OU DE PREVENTION D'INFECTION PAR CORONAVIRUS**
[72] TENG, Y.K. ONNO, NL
[72] HUIZINGA, ROBERT B., CA
[72] SOLOMONS, NEIL, CA
[72] CROSS, JENNIFER, CA
[71] AURINIA PHARMACEUTICALS INC., CA
[85] 2022-11-01
[86] 2021-05-08 (PCT/IB2021/053922)
[87] (WO2021/224890)
[30] US (63/021,239) 2020-05-07
[30] US (63/022,357) 2020-05-08

[21] **3,181,953**
[13] A1

[51] **Int.Cl. A61K 35/744 (2015.01) A61K 35/747 (2015.01) A61K 31/00 (2006.01) A61K 35/00 (2006.01) A61K 45/06 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING BACTERIAL STRAINS AND USE THEREOF FOR THE TREATMENT OF OCULAR DISEASES AND LESIONS**
[54] **COMPOSITIONS COMPRENANT DES SOUCHES BACTERIENNES ET LEUR UTILISATION POUR LE TRAITEMENT DE MALADIES ET LESIONS OCULAIRES**
[72] MOGNA, VERA, IT
[72] PANE, MARCO, IT
[72] AMORUSO, ANGELA, IT
[72] COSTAGLIOLA, CIRO, IT
[71] PROBIOTICAL S.P.A., IT
[85] 2022-11-01
[86] 2021-05-11 (PCT/IB2021/054003)
[87] (WO2021/229433)
[30] IT (102020000010666) 2020-05-12

[21] **3,181,954**
[13] A1

[25] FR
[54] **SMART SYSTEM FOR SKIN TESTING AND CUSTOMISED FORMULATION AND MANUFACTURING OF COSMETICS**
[54] **SYSTEME INTELLIGENT PERMETTANT UN TEST DE PEAU PUIS UNE FORMULATION ET UNE FABRICATION DE COSMETIQUE SUR MESURE**
[72] IFERGAN, JOANNA, FR
[72] IFERGAN, FREDERIC, FR
[71] ABBI SAS, FR
[85] 2022-11-01
[86] 2021-05-19 (PCT/IB2021/054329)
[87] (WO2021/234599)
[30] FR (FR2005259) 2020-05-20

Demandes PCT entrant en phase nationale

[21] **3,181,957**
[13] A1

[51] **Int.Cl. B25J 5/00 (2006.01) B25J 9/00 (2006.01) B25J 11/00 (2006.01) B66F 11/04 (2006.01) H02G 1/02 (2006.01)**

[25] FR

[54] **DEVICE FOR CARRYING OUT INTERVENTIONS ON AN ELECTRICAL TRANSMISSION LINE ASSEMBLY**

[54] **DISPOSITIF D'INTERVENTION SUR UN ENSEMBLE DE LIGNE DE TRANSPORT D'ELECTRICITE**

[72] LONARDI, FRANCIS, FR

[72] DEL SORDO, EMMANUEL, FR

[71] ENEDIS, FR

[85] 2022-11-01

[86] 2021-05-17 (PCT/EP2021/062915)

[87] (WO2021/229091)

[30] FR (FR2004833) 2020-05-15

[21] **3,181,959**
[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 31/55 (2006.01) A61K 31/56 (2006.01) A61K 31/58 (2006.01) A61K 45/06 (2006.01) A61P 11/02 (2006.01)**

[25] EN

[54] **COMBINATION OF ALCAFTADINE AND A CORTICOSTEROID**

[54] **COMBINAISON D'ALCAFTADINE ET D'UN CORTICOSTEROIDE**

[72] DHUPPAD, ULHAS, IN

[72] SHARMA, AKHILESH, IN

[72] AWARE, BABASAHEB, IN

[72] SHAH, VIRAJ, IN

[72] AIWALE, AMOL, IN

[71] ALKEM LABORATORIES LIMITED, IN

[85] 2022-11-01

[86] 2021-06-14 (PCT/IB2021/055222)

[87] (WO2021/255622)

[30] IN (201921053286) 2020-06-15

[21] **3,181,961**
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01) A61P 25/36 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **USE OF MGLUR5 ANTAGONISTS**

[54] **UTILISATION D'ANTAGONISTES DE MGLUR5**

[72] DOLMETSCH, RICHARD CARL ELCIARIO, US

[72] GASPARINI, FABRIZIO, CH

[72] GOMEZ-MANCILLA, BALTAZAR, CH

[71] NOVARTIS AG, CH

[85] 2022-11-01

[86] 2021-07-15 (PCT/IB2021/056397)

[87] (WO2022/013809)

[21] **3,182,001**
[13] A1

[51] **Int.Cl. A61L 31/04 (2006.01) A61L 31/06 (2006.01) A61L 31/14 (2006.01)**

[25] EN

[54] **HEMOSTATIC POLYMER MATERIAL KIT**

[54] **NECESSAIRE DE MATERIAU POLYMERE HEMOSTATIQUE**

[72] SAKAI, TAKAMASA, JP

[72] MASUI, KOSUKE, JP

[72] NARITA, SHINICHI, JP

[72] KAMATA, HIROYUKI, JP

[71] THE UNIVERSITY OF TOKYO, JP

[71] GELLYCLE CO., LTD., JP

[85] 2022-11-01

[86] 2021-05-06 (PCT/JP2021/017403)

[87] (WO2021/225144)

[30] JP (2020-082474) 2020-05-08

[21] **3,182,007**
[13] A1

[51] **Int.Cl. B61B 13/10 (2006.01) B61L 25/02 (2006.01)**

[25] EN

[54] **METHOD OF INTELLIGENTLY MANAGING PRESSURE WITHIN AN EVACUATED TRANSPORTATION SYSTEM**

[54] **PROCEDE DE GESTION INTELLIGENTE DE PRESSION A L'INTERIEUR D'UN SYSTEME DE TRANSPORT SOUS VIDE**

[72] MANCUSO, MICHAEL ALBERT, US

[72] HAWKINS, PAUL MATTHEW, US

[71] FLOWSERVE MANAGEMENT COMPANY, US

[85] 2022-11-01

[86] 2020-05-05 (PCT/US2020/031452)

[87] (WO2021/225582)

[21] **3,182,010**
[13] A1

[51] **Int.Cl. B01J 29/48 (2006.01) B01J 29/90 (2006.01) B01J 38/02 (2006.01)**

[25] EN

[54] **MTW-ZEOLITE AS SUPPORT FOR SECOND STAGE HYDROCRACKING CATALYSTS WITH IMPROVED SELECTIVITY AND COLD FLOW PROPERTY OF DISTILLATE PRODUCTS**

[54] **ZEOLITE MTW EN TANT QUE SUPPORT POUR DES CATALYSEURS D'HYDROCRAQUAGE DE SECONDE ETAPE AVEC UNE SELECTIVITE ET UNE PROPRIETE D'ECOULEMENT A FROID AMELIOREES DE PRODUITS DE DISTILLA T**

[72] ZHAN, BI-ZENG, US

[72] DAVIS, TRACY M., US

[72] LIANG, ANN JIA-BAO, US

[71] CHEVRON U.S.A. INC., US

[85] 2022-11-01

[86] 2021-05-05 (PCT/US2021/030951)

[87] (WO2021/226277)

[30] US (63/021,524) 2020-05-07

[21] **3,182,012**
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/4523 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **AKT3 MODULATORS**

[54] **MODULATEURS DE AKT3**

[72] KHLEIF, SAMIR, US

[72] MKRTICHYAN, MIKAYEL, US

[72] MACCOSS, MALCOLM, US

[71] GEORGIAMUNE LLC, US

[85] 2022-11-01

[86] 2021-05-07 (PCT/US2021/031297)

[87] (WO2021/226458)

[30] US (63/021,981) 2020-05-08

[30] US (63/121,000) 2020-12-03

PCT Applications Entering the National Phase

[21] **3,182,014**
[13] A1

[51] **Int.Cl. A61P 9/02 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) C07F 9/165 (2006.01) C07F 9/6571 (2006.01)**

[25] EN

[54] **RADIO-AND CHEMO-PROTECTIVE COMPOUNDS**

[54] **COMPOSES**

[54] **RADIOPROTECTEURS ET CHIMIOPROTECTEURS**

[72] SCHEIN, PHILIP S., US

[72] RIDEOUT, DARRYL C., US

[71] TONIX PHARMACEUTICALS, INC., US

[71] TONIX PHARMACEUTICALS HOLDING CORP., US

[85] 2022-11-01

[86] 2021-05-07 (PCT/US2021/031441)

[87] (WO2021/226559)

[30] US (63/021,937) 2020-05-08

[21] **3,182,018**
[13] A1

[51] **Int.Cl. A61K 31/40 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **TREATMENT OF BREAST CANCER USING COMBINATION THERAPIES COMPRISING GDC-9545 AND A CDK4/6 INHIBITOR**

[54] **TRAITEMENT DU CANCER DU SEIN A L'AIDE DE POLYTHERAPIES COMPRENANT GDC-9545 ET UN INHIBITEUR DE CDK4/6**

[72] LAUCHLE, JENNIFER O'HARA, US

[72] MILAN, SANDRA, US

[72] SMITT, MELANIE CAROL, US

[72] GREEN, MARJORIE C., US

[71] GENENTECH, INC., US

[85] 2022-11-01

[86] 2021-05-10 (PCT/US2021/031491)

[87] (WO2021/231250)

[30] US (63/023,501) 2020-05-12

[21] **3,182,020**
[13] A1

[51] **Int.Cl. A61F 2/28 (2006.01)**

[25] EN

[54] **CUSTOMIZED TIBIAL TRAYS, METHODS, AND SYSTEMS FOR KNEE REPLACEMENT**

[54] **PLATEAUX TIBIAUX PERSONNALISES, PROCEDES ET SYSTEMES DE REMPLACEMENT DU GENOU**

[72] UNIS, DOUGLAS B., US

[71] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US

[85] 2022-11-01

[86] 2021-05-19 (PCT/US2021/033102)

[87] (WO2021/236736)

[30] US (63/027,098) 2020-05-19

[21] **3,182,023**
[13] A1

[51] **Int.Cl. C07K 14/715 (2006.01) C07K 14/705 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **PREPARATION AND PURIFICATION OF HYPERSIALYLATED IGG**

[54] **PREPARATION ET PURIFICATION D'IGG HYPERSIALYLEE**

[72] SCHAECK, JOHN, US

[72] GRAHAM, STEFFEN, US

[72] ZOUAOU, RADOUANE, US

[71] MOMENTA PHARMACEUTICALS, INC., US

[85] 2022-11-01

[86] 2021-05-19 (PCT/US2021/033156)

[87] (WO2021/236769)

[30] US (63/026,875) 2020-05-19

[21] **3,182,025**
[13] A1

[51] **Int.Cl. A61M 39/00 (2006.01) A61M 25/00 (2006.01)**

[25] EN

[54] **VASCULAR ACCESS CATHETER**

[54] **CATHETER D'ACCES VASCULAIRE**

[72] TAL, MICHAEL GABRIEL, IL

[71] EMBRACE MEDICAL LTD., IL

[85] 2022-11-01

[86] 2021-05-25 (PCT/US2021/034016)

[87] (WO2021/242734)

[30] US (63/030,410) 2020-05-27

[21] **3,182,026**
[13] A1

[51] **Int.Cl. C12N 15/67 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **TREM COMPOSITIONS AND METHODS RELATING THERETO**

[54] **COMPOSITIONS A BASE DE TREM ET PROCEDES ASSOCIES**

[72] ANASTASSIADIS, THEONIE, US

[72] BERRY, DAVID ARTHUR, US

[72] HAJDIN, CHRISTINE ELIZABETH, US

[72] AFEYAN, NOUBAR BOGHOS, US

[72] BUTLER, DAVID CHARLES DONNELL, US

[72] LI, QINGYI, US

[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC., US

[85] 2022-11-01

[86] 2021-05-28 (PCT/US2021/035015)

[87] (WO2021/243301)

[30] US (63/032,008) 2020-05-29

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

<p style="text-align: center;">[21] 3,180,148 [13] A1</p> <p>[51] Int.Cl. C07K 19/00 (2006.01) C07K 14/47 (2006.01) C07K 14/54 (2006.01) C12N 15/62 (2006.01) C07K 14/715 (2006.01)</p> <p>[25] EN</p> <p>[54] INTERLEUKIN-4 RECEPTOR-BINDING FUSION PROTEINS AND USES THEREOF</p> <p>[54] PROTEINES DE FUSION SE LIANT AU RECEPTEUR DE L'INTERLEUKINE 4 ET UTILISATIONS ASSOCIEES</p> <p>[72] MERCHANT, FAHAR, CA</p> <p>[72] PURI, RAJ K., US</p> <p>[72] JOSHI, BHARATKUMAR H., US</p> <p>[71] MEDICENNA THERAPEUTICS, INC., CA</p> <p>[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMEN, US</p> <p>[22] 2014-09-24</p> <p>[41] 2015-04-02</p> <p>[62] 2,925,417</p> <p>[30] US (61/881,930) 2013-09-24</p>	<p style="text-align: center;">[21] 3,181,056 [13] A1</p> <p>[25] EN</p> <p>[54] METHODS, SYSTEMS, AND MEDIA FOR PROVIDING DYNAMIC MEDIA SESSIONS</p> <p>[54] PROCEDES, SYSTEMES, ET SUPPORTS PERMETTANT DE FOURNIR DES SESSIONS MULTIMEDIA DYNAMIQUES</p> <p>[72] CHAN, CHRISTOPHER, US</p> <p>[72] MACKAY, KENNETH J., US</p> <p>[72] WEST, JAMES CARROLL, US</p> <p>[72] MACLELLAN, TAVIS A., US</p> <p>[71] GOOGLE LLC, US</p> <p>[22] 2019-12-02</p> <p>[41] 2020-12-24</p> <p>[62] 3,143,942</p> <p>[30] US (62/862,416) 2019-06-17</p> <hr/> <p style="text-align: center;">[21] 3,181,064 [13] A1</p> <p>[25] EN</p> <p>[54] SECURE MOBILE USER INTERFACE AND MOBILE DEVICE CASE</p> <p>[54] INTERFACE UTILISATEUR MOBILE SECURISEE ET BOITIER DE DISPOSITIF MOBILE</p> <p>[72] LANDROCK, PETER, GB</p> <p>[72] BOND, MIKE, GB</p> <p>[71] CRYPTOMATHIC LTD., GB</p> <p>[22] 2014-10-29</p> <p>[41] 2015-05-07</p> <p>[62] 2,928,885</p> <p>[30] US (61/896,820) 2013-10-29</p> <p>[30] GB (1407528.7) 2014-04-29</p>	<p style="text-align: center;">[21] 3,181,066 [13] A1</p> <p>[25] EN</p> <p>[54] METHOD, APPARATUS, AND SYSTEM FOR PROCESSING AUDIO DATA</p> <p>[54] PROCEDE, APPAREIL ET SYSTEME POUR TRAITER DES DONNEES AUDIO</p> <p>[72] WANG, ZHE, CN</p> <p>[71] HUAWEI TECHNOLOGIES CO., LTD., CN</p> <p>[22] 2012-12-28</p> <p>[41] 2013-07-04</p> <p>[62] 3,059,322</p> <p>[30] CN (201110455836.7) 2011-12-30</p> <hr/> <p style="text-align: center;">[21] 3,181,074 [13] A1</p> <p>[25] EN</p> <p>[54] VORTEX SEPARATOR FOR THIN-FILM EVAPORATION UNIT WITH ANGLED BAFFLES</p> <p>[54]</p> <p>[72] LOLLING, SHAWN M., US</p> <p>[72] WARNER, JONATHAN C., US</p> <p>[71] ABTECH INDUSTRIES, INC., US</p> <p>[22] 2020-07-17</p> <p>[41] 2021-01-28</p> <p>[62] 3,147,736</p> <p>[30] US (16/517,432) 2019-07-19</p>
<p style="text-align: center;">[21] 3,181,050 [13] A1</p> <p>[25] EN</p> <p>[54] WATER FILTER SYSTEM</p> <p>[54] SYSTEME DE FILTRATION D'EAU</p> <p>[72] KRUCKENBERG, CHRISTOPHER A., US</p> <p>[72] MORRISON, JOHN W., US</p> <p>[72] SPINDLER, JEFFREY A., US</p> <p>[71] WHIRLPOOL CORPORATION, US</p> <p>[22] 2012-09-06</p> <p>[41] 2013-03-15</p> <p>[62] 3,111,326</p> <p>[30] US (13/233,309) 2011-09-15</p>	<p style="text-align: center;">[21] 3,181,082 [13] A1</p> <p>[25] EN</p> <p>[54] METHOD FOR PURIFYING WASTE WATER WITH OPEN-FLAME, THIN FILM EVAPORATION</p> <p>[54]</p> <p>[72] LOLLING, SHAWN M., US</p> <p>[72] WARNER, JONATHAN C., US</p> <p>[71] ABTECH INDUSTRIES, INC., US</p> <p>[22] 2020-07-17</p> <p>[41] 2021-01-28</p> <p>[62] 3,147,736</p> <p>[30] US (16/517,432) 2019-07-19</p>	

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,181,087**
[13] A1

[25] EN
[54] **APPARATUS AND METHODS FOR CONTROLLING AXIAL GROWTH WITH AN OCULAR LENS**
[54] **APPAREIL ET PROCÉDES POUR LE CONTRÔLE DE LA CROISSANCE AXIALE AVEC UNE LENTILLE OCULAIRE**
[72] NEWMAN, STEPHEN D., SG
[71] MENICON SINGAPORE PTE LTD., SG
[22] 2015-03-24
[41] 2015-10-01
[62] 2,943,523
[30] SG (10201400920R) 2014-03-24

[21] **3,181,096**
[13] A1

[51] **Int.Cl. A61K 47/50 (2017.01) A61K 47/54 (2017.01) A61K 47/62 (2017.01) A61K 47/68 (2017.01) A61K 31/167 (2006.01) A61K 31/277 (2006.01) A61K 31/4166 (2006.01) A61K 31/4188 (2006.01) A61K 31/4439 (2006.01) A61K 31/573 (2006.01) A61K 31/58 (2006.01) A61K 38/05 (2006.01) A61K 51/04 (2006.01) A61P 5/28 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPIES WITH PSMA LIGAND CONJUGATES**
[54] **POLYTHERAPIES AVEC CONJUGUES PSMA LIGAND**
[72] DIPIPO, VINCENT, US
[72] OLSON, WILLIAM C., US
[71] PSMA DEVELOPMENT COMPANY, LLC, US
[22] 2014-05-14
[41] 2015-04-23
[62] 2,927,735
[30] US (61/893,145) 2013-10-18
[30] JP (2013-235506) 2013-11-13
[30] US (61/903,589) 2013-11-13

[21] **3,181,145**
[13] A1

[51] **Int.Cl. A47H 11/00 (2006.01) A47G 5/02 (2006.01) A47H 3/00 (2006.01) E06B 9/32 (2006.01) E06B 9/322 (2006.01) E06B 9/42 (2006.01)**
[25] EN
[54] **A WINDOW BLIND WAND**
[54]
[72] MAROCCO, NORBERT, CA
[71] MAXXMAR INC., CA
[22] 2017-03-02
[41] 2018-06-06
[62] 3,050,759
[30] US (62/430,668) 2016-12-06

[21] **3,181,147**
[13] A1

[51] **Int.Cl. B65D 47/08 (2006.01) B65D 1/04 (2006.01) B65D 47/20 (2006.01) B65D 47/24 (2006.01) B65D 81/32 (2006.01)**
[25] EN
[54] **CONTAINERS AND METHODS FOR ISOLATING LIQUIDS PRIOR TO DISPENSING**
[54] **RECIPIENTS ET PROCÉDES PERMETTANT D'ISOLER DES LIQUIDES AVANT LA DISTRIBUTION**
[72] DE CLEIR, PIARAS VALDIS, US
[71] KRAFT FOODS GROUP BRANDS LLC, US
[22] 2013-12-06
[41] 2014-07-03
[62] 3,089,088
[30] US (61/746,791) 2012-12-28

[21] **3,181,156**
[13] A1

[25] EN
[54] **PREPARATION OF PULSE PROTEIN PRODUCTS ("YP810")**
[54] **PRÉPARATION DE PRODUITS DE PROTÉINES DE LÉGUMINEUSES ("YP810")**
[72] SEGALL, KEVIN, CA
[72] GREEN, BRENT E., CA
[72] SCHWEIZER, MARTIN, CA
[71] BURCON NUTRASCIENCE (MB) CORP., CA
[22] 2015-07-28
[41] 2016-02-04
[62] 2,956,235
[30] US (62/029,686) 2014-07-28

[21] **3,181,327**
[13] A1

[25] EN
[54] **PHARMACEUTICAL COMPOUNDING METHODS AND SYSTEMS**
[54]
[72] DANOPOULOS, PANAGIOTA, CA
[72] JOINER, MARC, CA
[72] NYAT PENG WONG, SARAH, CA
[72] TALEBI, VARGHA, CA
[72] BADER, PATRICK-MARTIN, CA
[71] MEDISCA PHARMACEUTIQUE, INC., CA
[22] 2017-11-10
[41] 2018-05-17
[62] 3,131,129
[30] US (62/420,426) 2016-11-10

[21] **3,181,411**
[13] A1

[51] **Int.Cl. A61K 31/351 (2006.01) A61K 31/35 (2006.01) A61K 31/381 (2006.01) A61K 31/382 (2006.01) A61K 31/7034 (2006.01) A61K 31/7042 (2006.01) A61K 31/7056 (2006.01) A61K 47/22 (2006.01) A61P 3/00 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **TREATMENT OF METABOLIC DISORDERS IN CANINE ANIMALS**
[54] **TRAITEMENT DE TROUBLES MÉTABOLIQUES CHEZ DES ANIMAUX CANINS**
[72] KLEY, SASKIA, DE
[72] REICHE, DANIA BIRTE, DE
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[22] 2015-01-20
[41] 2015-07-30
[62] 2,932,674
[30] EP (14152327.4) 2014-01-23
[30] EP (14186477.7) 2014-09-25

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,181,424**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A01N 63/50 (2020.01) A01P 7/04 (2006.01) C07K 14/435 (2006.01) C07K 14/47 (2006.01)**

[25] EN

[54] **TOXIC PEPTIDE PRODUCTION, PEPTIDE EXPRESSION IN PLANTS AND COMBINATIONS OF CYSTEINE RICH PEPTIDES**

[54] **PRODUCTION DE PEPTIDE TOXIQUE, EXPRESSION PEPTIDIQUE DANS DES PLANTES ET COMBINAISONS DE PEPTIDES RICHES EN CYSTEINE**

[72] KENNEDY, ROBERT M., US
[72] TEDFORD, WILLIAM, US
[72] HENDRICKSON, CRISTOPHER, US
[72] VENABLE, ROBERT, US
[72] FOUNE, CATHERINE, US
[72] MCINTYRE, JOHN, US
[72] CARLSON, ALVAR, US
[72] BAO, LIN, US
[71] VESTARON CORPORATION, US
[22] 2013-03-08
[41] 2013-09-12
[62] 2,866,166
[30] US (61/608,921) 2012-03-09
[30] US (61/644,212) 2012-05-08
[30] US (61/698,261) 2012-09-07
[30] US (61/729,905) 2012-11-26

[21] **3,181,428**
[13] A1

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/18 (2006.01) A24B 15/28 (2006.01) B65B 29/02 (2006.01) B65B 53/02 (2006.01) B65B 63/02 (2006.01)**

[25] EN

[54] **POLYMER ENCASED SMOKELESS TOBACCO PRODUCTS**

[54] **PRODUITS DE TABAC SANS FUMEE GAINES DE POLYMERES**

[72] CARROLL, ANDREW NATHAN, US
[72] BLACK, SHANNON MAXWELL, US
[72] SUN, YAN HELEN, US
[72] BURKE, WILLIAM J., US
[72] DINOVI, CHRISTOPHER JOSEPH (DECEASED), US
[72] PHILLIPS, DAVID, US
[72] MACKO, JASON ANDREW, US
[72] SMITH, ROBERT, US
[71] ALTRIA CLIENT SERVICES LLC, US
[22] 2015-03-13
[41] 2015-09-17
[62] 2,942,870
[30] US (61/953,387) 2014-03-14

[21] **3,181,440**
[13] A1

[25] EN

[54] **PYROLYSIS OIL AND METHOD AND PLANT FOR PRODUCING SAME**

[54] **HUILE DE PYROLYSE ET PROCEDE ET SYSTEME DE PRODUCTION D'HUILE DE PYROLYSE**

[72] HORNUNG, ANDREAS, DE
[72] APFELBACHER, ANDREAS, DE
[72] OUADI, MILOUD, DE
[72] NEUMANN, JOHANNES, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[22] 2015-12-01
[41] 2016-09-01
[62] 2,975,003
[30] DE (10 2015 102 819.0) 2015-02-27
[30] DE (10 2015 108 552.6) 2015-05-29

[21] **3,181,534**
[13] A1

[51] **Int.Cl. B63B 22/00 (2006.01) B63B 22/04 (2006.01) B63B 22/16 (2006.01) B63B 35/50 (2006.01)**

[25] EN

[54] **INCREMENTAL DEPLOYMENT OF A BUOY OR BUOY NETWORK**

[54] **DEPLOIEMENT INCREMENTIEL D'UNE BOUEE OU D'UN RESEAU DE BOUEES**

[72] RIKOSKI, RICHARD J., US
[71] HADAL, INC., US
[22] 2019-01-03
[41] 2019-07-11
[62] 3,087,525
[30] US (62/613,291) 2018-01-03

[21] **3,181,542**
[13] A1

[25] EN

[54] **STACKED PATCH ANTENNA DEVICES AND METHODS**

[54] **DISPOSITIFS D'ANTENNE PLAQUE JUMELES ET METHODES**

[72] HAUTCOEUR, JULIEN, CA
[72] PANTHER, GYLES, CA
[71] TALLYSMAN WIRELESS INC., CA
[22] 2020-07-30
[41] 2021-01-30
[62] 3,088,441
[30] US (62/880,237) 2019-07-30

[21] **3,181,548**
[13] A1

[51] **Int.Cl. A61M 39/02 (2006.01) A61M 39/04 (2006.01) A61M 1/36 (2006.01)**

[25] EN

[54] **LOW-PROFILE SINGLE AND DUAL VASCULAR ACCESS DEVICE**

[54] **DISPOSITIF D'ACCES VASCULAIRE SIMPLE ET DOUBLE A PROFIL BAS**

[72] FEDOR, BRENDA L.F., US
[72] STATS, JASON R., US
[72] RANDALL, MICHAEL ADAM, US
[72] VAN LIERE, CHAD C., US
[72] COX, JEREMY B., US
[71] C.R. BARD, INC., US
[22] 2019-04-12
[41] 2019-10-17
[62] 3,094,339
[30] US (62/657,662) 2018-04-13
[30] US (62/732,928) 2018-09-18
[30] US (16/382,177) 2019-04-11

[21] **3,181,550**
[13] A1

[25] EN

[54] **FILAR ANTENNA ELEMENT DEVICES AND METHODS**

[54] **DISPOSITIFS ET PROCEDES POUR ELEMENT D'ANTENNE FILAIRE**

[72] EMARA, MOHAMED, CA
[72] HAUTCOEUR, JULIEN, CA
[72] PANTHER, GYLES, CA
[72] BOTROS, JOSEPH, CA
[71] TALLYSMAN WIRELESS INC., CA
[22] 2020-04-27
[41] 2020-10-26
[62] 3,079,709
[30] US (62/839,144) 2019-04-26

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,181,552**
[13] A1

[25] EN
[54] **CONSTANT VOLTAGE AND CONSTANT CURRENT DRIVER CIRCUIT**
[54] **CIRCUIT D'ATTAQUE A TENSION CONSTANTE ET A COURANT CONSTANT**
[72] CHEN, TIMOTHY, US
[72] HUSSEY, ANDREW CHARLES, US
[71] TECHNICAL CONSUMER PRODUCTS, INC., US
[22] 2015-05-18
[41] 2015-12-03
[62] 2,949,800
[30] US (62/005,321) 2014-05-30
[30] US (14/326,566) 2014-07-09

[21] **3,181,578**
[13] A1

[25] EN
[54] **APPARATUS AND METHODS FOR MANUFACTURING AND REPAIRING FIBRE-REINFORCED COMPOSITE MATERIALS**
[54] **APPAREIL ET PROCEDES DE FABRICATION ET DE REPARATION DE MATERIAUX COMPOSITES RENFORCES PAR FIBRES**
[72] MCKIBBIN, ANDREW, GB
[71] SHORT BROTHERS PLC, GB
[22] 2015-10-22
[41] 2016-04-28
[62] 2,964,530
[30] GB (1418921.1) 2014-10-24

[21] **3,181,696**
[13] A1

[25] EN
[54] **METHODS AND SYSTEMS FOR ANALYZING IMAGE DATA**
[54] **PROCEDES ET SYSTEMES D'ANALYSE DE DONNEES D'IMAGE**
[72] BELITZ, PAUL, US
[72] TANNER, STEPHEN, US
[72] VIECELI, JOHN S., US
[72] CHEN, XIAOYU, US
[71] ILLUMINA, INC., US
[22] 2014-12-03
[41] 2015-06-11
[62] 2,928,209
[30] US (61/911,319) 2013-12-03
[30] US (61/915,426) 2013-12-12
[30] US (61/915,455) 2013-12-12

[21] **3,181,728**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR GENERATING LIQUID WATER FROM AIR**
[54] **SYSTEMES ET PROCEDES DE PRODUCTION D'EAU LIQUIDE A PARTIR DE L'AIR**
[72] FRIESEN, CODY, US
[72] SWITZER, ELISE, US
[72] LORZEL, HEATH, US
[71] ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, US
[22] 2015-11-20
[41] 2016-05-26
[62] 2,975,167
[30] US (62/082,335) 2014-11-20
[30] US (62/145,995) 2015-04-10

[21] **3,181,753**
[13] A1

[25] EN
[54] **SOFT BATH TISSUES HAVING LOW WET ABRASION AND GOOD DURABILITY**
[54] **PAPIER HYGIENIQUE SOUPLE AYANT UNE FAIBLE ABRASION HUMIDE ET UNE BONNE DURABILITE**
[72] DWIGGINS, JOHN H., US
[72] SUMNICH, DANIEL W., US
[71] GPCP IP HOLDINGS LLC, US
[22] 2014-03-03
[41] 2014-09-25
[62] 2,907,543
[30] US (61/804,364) 2013-03-22
[30] US (14/173,950) 2014-02-06

[21] **3,181,756**
[13] A1

[51] **Int.Cl. D21H 27/30 (2006.01) A47K 10/16 (2006.01) D21H 17/20 (2006.01) D21H 21/20 (2006.01)**
[25] EN
[54] **SOFT BATH TISSUES HAVING LOW WET ABRASION AND GOOD DURABILITY**
[54] **PAPIER HYGIENIQUE SOUPLE AYANT UNE FAIBLE ABRASION HUMIDE ET UNE BONNE DURABILITE**
[72] DWIGGINS, JOHN H., US
[72] SUMNICH, DANIEL W., US
[71] GPCP IP HOLDINGS LLC, US
[22] 2014-03-03
[41] 2014-09-25
[62] 2,907,543
[30] US (61/804,364) 2013-03-22
[30] US (14/173,950) 2014-02-06

[21] **3,181,759**
[13] A1

[25] EN
[54] **INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND COMPUTER PROGRAM**
[54] **DISPOSITIF DE TRAITEMENT D'INFORMATIONS, PROCEDE DE TRAITEMENT D'INFORMATIONS ET PROGRAMME INFORMATIQUE**
[72] HOSHINO, TAKAHARU, JP
[71] 10353744 CANADA LTD., CA
[22] 2017-02-14
[41] 2017-08-24
[62] 3,137,858
[30] JP (PCT/JP2016/054702) 2016-02-18

[21] **3,181,766**
[13] A1

[25] EN
[54] **MOTORIZED RACKING ASSEMBLY**
[54] **ENSEMBLE MOTORISE DE MONTAGE EN BAIES**
[72] BOYCE, RUSSELL I., US
[72] PEARCE, MICHAEL D., US
[72] HUGHES, MELVIN L., US
[72] SHETH, BIMAL PARESHBHAI, US
[71] EATON INTELLIGENT POWER LIMITED, IE
[22] 2015-01-22
[41] 2015-09-11
[62] 2,940,882
[30] US (14/197,331) 2014-03-05

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,181,807**
[13] A1

[25] EN
[54] **PRESENTING MEDIA GUIDANCE SEARCH RESULTS BASED ON RELEVANCY**
[54] **PRESENTATION DE RESULTATS DE RECHERCHE DE GUIDAGE MULTIMEDIA SUR LA BASE DE LA PERTINENCE**
[72] BILLMAIER, DAVID, US
[72] STARKENBURG, MICHAEL ROSS, US
[71] ROVI GUIDES, INC., US
[22] 2007-10-29
[41] 2008-05-15
[62] 3,038,739
[30] US (11/591972) 2006-11-01
[30] US (11/591929) 2006-11-01

[21] **3,181,815**
[13] A1

[51] **Int.Cl. C25B 1/135 (2021.01) C25B 1/50 (2021.01) C25B 9/09 (2021.01) C25B 15/08 (2006.01) C01B 32/15 (2017.01) C01B 32/182 (2017.01)**
[25] EN
[54] **PROCESS FOR THE FACILE ELECTROSYNTHESIS OF GRAPHENE FROM CO2**
[54] **PROCESSUS D'ELECTROSYNTHESE FACILE DE GRAPHENE A PARTIR DE CO2**
[72] LICHT, STUART, US
[71] C2CNT LLC, US
[22] 2020-05-28
[41] 2020-12-03
[62] 3,141,127
[30] US (62/853,473) 2019-05-28
[30] US (62/890,719) 2019-08-23
[30] US (62/938,135) 2019-11-20

[21] **3,181,817**
[13] A1

[51] **Int.Cl. C25B 1/135 (2021.01) C01B 32/18 (2017.01) C25B 1/50 (2021.01) C25B 9/09 (2021.01) C25B 15/08 (2006.01)**
[25] EN
[54] **PROCESS FOR THE FACILE ELECTROSYNTHESIS OF GRAPHENE FROM CO2**
[54] **PROCESSUS D'ELECTROSYNTHESE FACILE DE GRAPHENE A PARTIR DE CO2**
[72] LICHT, STUART, US
[71] C2CNT LLC, US
[22] 2020-05-28
[41] 2020-12-03
[62] 3,141,127
[30] US (62/853,473) 2019-05-28
[30] US (62/890,719) 2019-08-23
[30] US (62/938,135) 2019-11-20

[21] **3,181,828**
[13] A1

[51] **Int.Cl. C25B 1/135 (2021.01) C25B 1/50 (2021.01) C25B 9/09 (2021.01) C25B 15/08 (2006.01)**
[25] EN
[54] **PROCESS FOR THE FACILE ELECTROSYNTHESIS OF GRAPHENE FROM CO2**
[54] **PROCESSUS D'ELECTROSYNTHESE FACILE DE GRAPHENE A PARTIR DE CO2**
[72] LICHT, STUART, US
[71] C2CNT LLC, US
[22] 2020-05-28
[41] 2020-12-03
[62] 3,141,127
[30] US (62/853,473) 2019-05-28
[30] US (62/890,719) 2019-08-23
[30] US (62/938,135) 2019-11-20

[21] **3,181,837**
[13] A1

[51] **Int.Cl. C25B 1/135 (2021.01) C25B 1/50 (2021.01) C25B 9/09 (2021.01) C25B 15/08 (2006.01) C01B 32/182 (2017.01)**
[25] EN
[54] **PROCESS FOR THE FACILE ELECTROSYNTHESIS OF GRAPHENE FROM CO2**
[54] **PROCESSUS D'ELECTROSYNTHESE FACILE DE GRAPHENE A PARTIR DE CO2**
[72] LICHT, STUART, US
[71] C2CNT LLC, US
[22] 2020-05-28
[41] 2020-12-03
[62] 3,141,127
[30] US (62/853,473) 2019-05-28
[30] US (62/890,719) 2019-08-23
[30] US (62/938,135) 2019-11-20

[21] **3,181,840**
[13] A1

[25] EN
[54] **VIDEO SIGNAL PROCESSING APPARATUS**
[54] **APPAREIL DE TRAITEMENT DE SIGNAL VIDEO**
[72] MURAKAMI, NOBUYUKI, JP
[71] IMAGENICS CO., LTD., JP
[22] 2018-05-31
[41] 2019-04-23
[62] 3,006,830
[30] JP (2017-204804) 2017-10-23

[21] **3,181,871**
[13] A1

[25] EN
[54] **AQUEOUS HERBICIDAL CONCENTRATES COMPRISING AN ACETANILIDE HERBICIDE, A PROTOPORPHYRINOGEN OXIDASE INHIBITOR, AND A PSEUDOPLASTIC THICKENER**
[54] **CONCENTRES HERBICIDES AQUEUX COMPRENANT UN HERBICIDE A L'ACETANILIDE, UNINHIBITEUR DE LA PROTOPORPHYRINOGENE OXYDASE ET EPAISSISSEUR PSEUDOPLASTIQUE**
[72] BECHER, DAVID Z., US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2015-01-27
[41] 2015-07-30
[62] 2,937,505
[30] US (61/932,199) 2014-01-27

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,181,895**
[13] A1
[51] **Int.Cl. A01B 39/18 (2006.01) A01B 35/32 (2006.01) A01C 7/08 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR SEEDING IN A MATRIX**
[54] **APPAREIL ET PROCEDE POUR ENSEMENCEMENT DANS UNE MATRICE**
[72] JACOBS, KEITH, CA
[71] JACOBS FARMS DAYSLAND LTD., CA
[22] 2018-08-21
[41] 2020-02-21
[62] 3,014,944

[21] **3,181,900**
[13] A1
[51] **Int.Cl. B60P 3/077 (2006.01) B61D 3/18 (2006.01)**
[25] EN
[54] **AUTO-RACK RAILROAD CAR VEHICLE RESTRAINT APPARATUS**
[54] **APPAREIL DE RETENUE DE VEHICULE POUR WAGON FERROVIAIRE PORTE-AUTOMOBILES**
[72] ANDERSON, JOHN D., US
[72] PEACH, WALTER J., US
[72] BURKE, MICHAEL K., US
[71] STANDARD CAR TRUCK COMPANY, US
[22] 2014-03-06
[41] 2015-03-19
[62] 2,922,558
[30] US (29/466,654) 2013-09-10
[30] US (14/084,081) 2013-11-19

[21] **3,181,923**
[13] A1
[51] **Int.Cl. A61B 10/02 (2006.01)**
[25] EN
[54] **CORE NEEDLE BIOPSY DEVICE**
[54] **DISPOSITIF DE BIOPSIE AU TROCART**
[72] SHABAZ, MARTIN VICTOR, US
[71] C.R. BARD, INC., US
[22] 2013-11-20
[41] 2014-05-30
[62] 2,888,133
[30] US (61/729,245) 2012-11-21
[30] US (61/774,293) 2013-03-07

[21] **3,181,981**
[13] A1
[25] EN
[54] **METHOD FOR ON DEMAND POWER PRODUCTION UTILIZING GEOLOGIC THERMAL RECOVERY**
[54] **METHODE DE PRODUCTION D'ALIMENTATION SUR DEMANDE AU MOYEN DE RECUPERATION THERMIQUE GEOLOGIQUE**
[72] TOEWS, MATTHEW, CA
[72] SCHWARZ, BAILEY, CA
[72] REDFERN, JOHN, CA
[72] CAIRNS, PAUL, CA
[71] EAVOR TECHNOLOGIES INC., CA
[22] 2020-11-09
[41] 2021-02-12
[62] 3,138,740
[30] US (62/965833) 2020-01-25

Index of Canadian Patents Issued

December 20, 2022

Index des brevets canadiens délivrés

20 décembre 2022

ABBASI, MAYAR	3,024,760	DAON ENTERPRISES LIMITED	2,922,342	KANTZAS, APOSTOLOS	3,075,529
ABRAM SALIBA, JOHAN	2,979,602	DEBAD, JEFF D.	3,034,949	KEANE, MICHAEL	3,053,654
ADAMS, MICHELLE	3,096,084	DENG, KAI	3,096,084	KHAEROV, ALEKSANDR	3,079,948
ALEXANDER, VICTORIA	3,094,677	DIAS, ERIC L.	2,937,506	KHAN, ALSAM	3,024,760
ALVES, MARILIA VALENCIO	3,136,032	DOLADO, IGNACIO	2,979,602	KIM, MITCHELL	2,968,369
AMAZON TECHNOLOGIES, INC.	2,898,995	DOWCO, INC.	3,146,993	KRAMB, RYAN	3,102,857
ANTROBUS, CRAIG	3,131,964	EGAN, TEAGUE	3,136,247	KUISMA, TYTTI	2,884,367
AOKI, YUJI	3,144,373	EIKMAN, VIKTOR	2,947,655	KUMAR, SUDEEP M.	3,034,949
AQUA METALS INC.	3,143,266	ELI LILLY AND COMPANY	3,090,525	KUROIWA, SHIGETO	3,144,373
ARCHER-DANIELS-MIDLAND COMPANY	2,937,506	ELLIOTT, FRANKLIN	2,949,969	KUSE, KOLJA	2,901,511
ATOM TICKETS, LLC	2,968,369	ENERGY EXPLORATION TECHNOLOGIES, INC.	3,136,247	KUZKIN, MAXIM	3,079,948
AXELROD, GLEN S.	2,965,320	EPIAXIS THERAPEUTICS PTY LTD	2,916,533	KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION	3,144,373
AYAR LABS, INC.	3,030,736	F. HOFFMAN-LA ROCHE AG	3,081,801	LAHMAR, MEHDI	3,011,097
BAKAL, MATTHEW	2,968,369	F.G. ELLIOTT LLC	2,949,969	LAUKKANEN, ANTTI	2,884,367
BAKKER, TALITHA	2,979,602	FALARDEAU, BRUNO	2,964,015	LE, DANG	3,037,353
BARNETT, JACK	3,037,353	FALLOT, STEPHANIE	3,011,097	LEISURE TIME PRODUCTS, LLC	3,015,262
BELTRAMINELLI, NICOLA	3,011,097	FLUID COMPONENTS INTERNATIONAL LLC	3,037,353	LI, HUAGUANG	3,025,702
BESS, MICHAEL	3,037,353	FONTANOV, DMITRII	3,079,948	LINDAL FRANCE SAS	3,143,113
BINZ, HANS KASPAR	2,979,602	FORRER, PATRIK	2,979,602	LIU-BUJALSKI, LESLEY	2,899,088
BLUEBEAM, INC.	3,012,228	FORTH, KASUMI	3,136,032	LIVINGSTON, PHILIP	3,096,084
BLUM, TIMOTHY MARK	3,090,525	FORTY SEVEN, INC.	3,011,097	LOU, YAN-RU	2,884,367
BODET, HERVE	3,143,113	GAILLARD, ERIC	3,143,113	LYONDELLBASELL ADVANCED POLYMERS INC.	3,102,857
BOUSSIE, THOMAS R.	2,937,506	GAJRIA, AJAY	2,965,320	MARINI, FRANK	3,091,467
BRANDWINE, ERIC JASON	2,898,995	GALIATSATOS, VASSILIOS	3,102,857	MARTZ, KEVIN ROBERT	2,951,505
BRIAN, BEN F., III	3,055,649	GARRONE, PIERRE	3,011,097	MASKELL, ALAN JAMES	3,042,177
BROWN, CLIVE GAVIN	3,113,287	GIDDENS, TAYLOR MICHAEL	3,079,948	MAZZARELLA, JOSEPH R.	2,978,951
BRYAN, JONATHAN L.	3,075,529	GIN, DAVID	3,096,084	MCBROOM, JAMES P.	2,951,505
BUCAK, OMER	2,901,511	GLEZER, ELI N.	3,034,949	MEADE, ROY EDWARD	3,030,736
BURNS, MICHAEL	2,968,369	GOSKONDA, VENKAT R.	3,025,702	MEJJJET HOLDINGS PTY LTD	3,077,530
BUTLER, PAUL	3,053,654	GULOTTI-GEORGIEVA, MAYA	2,979,602	MERCHANT, ADNAN I.	3,055,649
BYERLY, ROY HOWARD	3,090,525	HARPER, GAVIN	3,113,287	MERCK PATENT GMBH	2,899,088
CANO HERNANDEZ, JESUS	2,970,772	HE, WEI	2,947,338	MERZ, FRIEDER W.	2,979,602
CAPPOLA, KENNETH M.	3,091,467	HEALTHTECH BIO ACTIVES, S.L.U.	2,970,772	MESO SCALE TECHNOLOGIES, LLC	3,034,949
CAPPS, KENLEY	2,968,369	HENDERSON, JOSEPH L.	3,094,677	MIKI, HAJIME	3,144,373
CEC NORTH STAR ENERGY LTD.	3,075,529	HERON, ANDREW JOHN	3,113,287	MOEN INCORPORATED	3,041,555
CECCARANI, FABIO	3,102,857	HIRAJIMA, TSUYOSHI	3,144,373	MOHANTA, SAMARESH	3,143,266
CHALONS-COTTAVOZ, MARIE	3,011,097	HOLDEN, EDWARD	3,077,530	MOHEYSEN-ZADEH, MIRIAM	3,081,801
CHENAULT, ELLIOT	3,012,228	HORN, KENNETH M.	3,091,467	MOLECULAR PARTNERS AG	2,979,602
CHILLTECHNOLOGIES LIMITED	3,053,654	HOUGH, JUSTIN B.	3,146,993	MOSER, SCOTT ALAN	3,015,262
CHOMAS, JAMES E.	3,055,649	HUFFORD, JOSHUA	3,143,266	MULLER, MATTHIAS	2,901,511
CLARK, ROBERT L., III	3,055,649	ICOMERA AB	2,947,655	MURPHY, VINCENT J.	2,937,506
CLARKE, JAMES ANTHONY	3,113,287	IRWIN, CRAIG W.	3,074,339	MUSTANG SAMPLING, LLC	3,134,711
CLAYTON CORPORATION	2,951,505	JEFFREY-COKER, BANDELE	3,034,949	MUTUALINK, INC.	2,978,951
CLOUDBLUE LLC	3,079,948	JOHNSON, MICHAEL JOSEPH	3,041,555	NEUVONEN, TUOMAS	2,953,585
CONNOLLY, JILLIAN	3,136,032	JOHNSON, THERESA L.	2,899,088	NGUYEN, HUNG Q.	3,025,702
COVIDIEN LP	3,091,467	JONES, DONALD E. H.	3,075,529	NIKANDER, MIKA	2,953,585
CROWN EQUIPMENT CORPORATION	3,107,684	JORDAN, GREGOR	3,081,801	NIKLANDER, JOHANNA	2,884,367
D'HOORE, TOM NELLY A.	2,970,772	JOY GLOBAL UNDERGROUND MINING LLC	3,055,207	OBERMAN, MARK	3,037,353
DAHL, UWE	3,081,801			OCEANA ENERGY COMPANY	3,001,696

Index of Canadian Patents Issued December 20, 2022

ORDEN, VAN DEREK	3,030,736	THUNBERG, ANDREAS	2,947,655
ORTEU BAENA, YAGO	2,970,772	TRIASSI, IGNAZIO	3,102,857
ORTHOSOFT ULC	2,964,015	TSIONKSY, MICHAEL	3,034,949
OXFORD NANOPORE TECHNOLOGIES PLC	3,113,287	ULMESTRAND, ARON	2,947,655
PALEJA, AMEESH	2,968,369	ULTHERA, INC.	3,055,649
PARADIS, FRANCOIS	2,964,015	UPM-KYMMENE CORPORATION	2,884,367
PATTON, SCOTT	3,037,353	VALIN, MYRIAM	2,964,015
PATWARDHAN, AMIT	3,136,247	VANGARA, KIRAN KUMAR	3,025,702
PELLETIER, BENOIT	2,964,015	VEKARIYA, JAYESH	3,094,677
PERE, JAAKKO	2,884,367	VIRTANEN, JANI	2,953,585
PERL, NICHOLAS	3,096,084	VURA, JOHN ALLEN	3,015,262
PHILLIPS, DOUGLAS	2,979,602	W. L. GORE & ASSOCIATES, INC.	3,074,339
POPOVIC, MILOS	3,030,736	WADE, MARK	3,030,736
POWER, DANIEL E., III	3,001,696	WALKER, AARON PHILIP	3,055,207
PRATT, BRIAN IRL	2,898,995	WARNOCK, MICHAEL	3,034,949
PROCYK, GRAHAM	3,142,058	WELLMAN, TIMOTHY A.	3,107,684
QUERREY, TIMOTHY L.	3,134,711	WENGROVITZ, MICHAEL S.	2,978,951
RADDATZ, ALAN	2,968,369	WEZOREK, JOSEPH W.	3,012,228
RADIUS PHARMACEUTICALS, INC.	3,025,702	WHYMAN, DANIEL R.	3,015,262
RAGUPATHI, GOVIND	3,096,084	WIBLE, ERIC	3,037,353
RAM, RAJEEV	3,030,736	WILLIAMS, MATTHEW ROBERT	3,054,893
RAO, SUDHA	2,916,533	WINNER, DEAN E.	3,107,684
RC PRODUCTS LTD.	3,136,032	WIPPICH, DAVID	3,079,948
REID, STUART WILLIAM	3,113,287	WOLFE, NICHOLAS S.	3,134,711
RICHARDSON, ROBERT	3,075,529	WON, ANNIE	3,096,084
ROCKPORT NETWORKS INC.	3,054,893	WREN, MATTHEW JAMES	2,898,995
ROTH, GREGORY BRANCHEK	2,898,995	WRIGHT, ALEXANDRA	3,030,736
ROUSE, ALEXANDER	2,968,369	YAN, NINGXIN	3,025,702
SABIN, CULLEN M.	3,042,177	YLIPERTTULA, MARJO	2,884,367
SASAKI, KEIKO	3,144,373	YU, HENRY	2,899,088
SCHWAMBORN, KLAUS	3,011,097	ZAFAR, ANJUM	2,916,533
SEMOTO, YUKI	3,144,373	ZHEJIANG DTRM BIOPHARMA CO., LTD.	2,947,338
SEZILLE, NICOLAS JACQUES JEAN	2,922,342		
SHAEVITZ, GEOFF	2,968,369		
SHEER SIMPLE LABORATORIES INC.	3,094,677		
SHOEMAKER, JAMES A.	2,937,506		
SHU, CHICHANG	3,102,857		
SIGAL, GEORGE	3,034,949		
SILVERMAN, JAMES D.	3,074,339		
SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH	3,096,084		
SONDEREGGER, IVO	2,979,602		
SOOMA LTD	2,953,585		
SPIELES, GISBERT	3,034,949		
STAACK, ROLAND	3,081,801		
STEINER, DANIEL	2,979,602		
STEWART, CHRISTOPHER GEORGE	3,055,207		
STOJANOVIC, VLADIMIR	3,030,736		
STUMPP, MICHAEL T.	2,979,602		
SUMITOMO METAL MINING CO., LTD.	3,144,373		
SUN, CHEN	3,030,736		
SUYANTARA, GDE PANDHE WISNU	3,144,373		
T.F.H. PUBLICATIONS, INC.	2,965,320		
TANAKA, YOSHIYUKI	3,144,373		
TEMPRA TECHNOLOGY, INC.	3,042,177		

Index of Canadian Applications Open to Public Inspection

December 4, 2022 to December 10, 2022

Index des demandes canadiennes mises à la disponibilité du public

4 décembre 2022 au 10 décembre 2022

10353744 CANADA LTD.	3,161,985	BURKE, MICHAEL	3,161,929	FLUID ENERGY GROUP LTD	3,121,072
1918497 ONTARIO INC.	3,160,891	CAO, WENBIN	3,161,985	FORD, WALTER	3,161,745
6 RIVER SYSTEMS, LLC	3,151,054	CAPITAL ONE SERVICES, LLC	3,161,996	FORTIN, REJEAN	3,121,031
AADG, INC.	3,161,685	CARPENTER, GUILLAUME	3,160,494	FRANEY, CATHERINE JONES	3,151,054
AADG, INC.	3,161,745	CHAPUIS, ERIC	3,161,909	FRANK'S INTERNATIONAL, LLC	3,161,879
AADG, INC.	3,161,750	CHEN, CHIH-YUAN	3,131,822	FREDRICKS, BRUCE ALAN	3,161,058
AADG, INC.	3,161,828	CHEN, KUAN-YING	3,131,822	FREDRICKS, CONOR ALAN	3,161,058
ACQUAH, MICHAEL	3,157,191	CHEN, YI-HSI	3,131,822	FRENCH, TREVOR JASON	3,121,768
ADRIAN STEEL COMPANY	3,152,717	CHENG, LIN NI LISA	3,161,996	FREUDENBERG MEDICAL, LLC	3,156,960
AFTON CHEMICAL CORPORATION	3,160,494	COMCAST CABLE COMMUNICATIONS, LLC	3,161,929	FUTURECOM SYSTEMS GROUP, ULC	3,121,777
AFTON CHEMICAL CORPORATION	3,160,904	COMENITY LLC	3,162,110	GABER, HOSSAM ELSAYED	3,156,201
AIRBUS HELICOPTERS DEUTSCHLAND GMBH	3,146,214	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES	3,161,695	GAGNON, PAUL	3,121,768
AIRBUS HELICOPTERS DEUTSCHLAND GMBH	3,146,330	ALTERNATIVES	3,155,460	GE, WENQING	3,156,201
AIRBUS HELICOPTERS DEUTSCHLAND GMBH	3,173,872	COX, STEVEN J.	3,155,460	GENERAL ELECTRIC RENOVABLES ESPANA S.L.	3,160,987
AKSOY, SINAN G.	3,148,060	CREDO DIAGNOSTICS BIOMEDICAL PTE. LTD.	3,131,822	GENERAL MILLS, INC.	3,155,460
ALECU, DANIEL	3,160,900	CREDO DIAGNOSTICS BIOMEDICAL PTE. LTD.	3,143,044	GEREZ, JOSHUA MICHAEL	3,152,717
ALLARD, FRANCIS	3,161,470	CRESSWELL, MARK	3,121,723	GLEN, KEVIN ALAN	3,156,960
ALTIUM PACKAGING LP	3,161,747	CUI, JINGYAN	3,133,664	GLOVER, DANIEL BRIAN	3,161,685
ANDERSON, CHRIS	3,162,110	D2P TECHNOLOGY INC.	3,121,337	GLOVER, DANIEL BRIAN	3,161,745
ANDERSON, JAMES L.	3,160,984	DANTONELLO, KATHARINA	3,155,951	GLOVER, DANIEL BRIAN	3,161,750
ANGEL GROUP CO., LTD.	3,161,482	DEERE & COMPANY	3,153,138	GLOVER, DANIEL BRIAN	3,161,828
AOI SEIKI CO., LTD.	3,161,229	DEFAZIO, MICHAEL JOSEPH	3,148,188	GOHL, RUSSELL	3,124,089
ARABIE, BLAKE	3,161,879	DETECHTION USA INC.	3,161,902	GOODRICH ACTUATION SYSTEMS LIMITED	3,151,886
ARAGONE, GIOVANNI	3,161,071	DEVLIN, MARK	3,160,494	GOODRICH CORPORATION	3,160,193
ARAGONE, GIOVANNI	3,161,081	DEWBERRY, ANDREW T. K.	3,121,756	GOSTYUZHEV, SERGEY	3,121,777
BAILEY, DUAN	3,162,146	DICK, SEBASTIAN	3,155,951	GRACO MINNESOTA INC.	3,161,577
BARBEAU, LOUIS-CLEMENT	3,161,470	DIETERICH, OLIVER	3,173,872	GRADY, TRACY	3,162,146
BARTELMUSS, KLAUS	3,157,601	DINCA, ALEXANDRU	3,146,214	GREEN, THOMAS WAYNE	3,160,984
BATTELLE MEMORIAL INSTITUTE	3,148,060	DINCA, ALEXANDRU	3,146,330	GROUPE RAMO INC.	3,161,470
BATTERSHELL, JOHN ROBERT	3,162,506	DINGWELL, LISA	3,160,904	GUANGXI UNIVERSITY	3,127,968
BEAULIEU, HUGO	3,121,031	DIOSADY, LASLO	3,160,900	GUASTALLI, ROMILBERT	3,161,071
BECKER, JORN	3,160,987	DOMINGUES, DAVID J.	3,155,460	GUASTALLI, ROMILBERT	3,161,081
BECKMANN, ERICH W.	3,161,577	DUNCAN, ROBERT	3,121,499	HALLIWELL, JOHN MARTIN	3,161,613
BENCAK, ROBERT	3,161,837	E.J. BROOKS COMPANY D.B.A. BROOKS UTILITY PRODUCTS GROUP	3,161,926	HANEY, VIRGIL	3,161,902
BENSON, JOHN D.	3,162,483	ECKARD, LANCE	3,161,799	HANSCH, SVEN	3,161,459
BERGHEIM, OYVIND	3,121,072	ELFAR, TALAL	3,161,619	HANSGROHE SE	3,160,236
BERNIER, LOUIS	3,121,031	EPP, BRYN	3,161,837	HARMEILING, ANDREW ALAN	3,160,560
BIGELOW, DEAN	3,121,723	ESPOSITO, ANTONIO	3,121,031	HARPER, LINDSEY WILLIAM	3,121,499
BILGER, MARCEL	3,160,236	EVOLVE GAS AND POWER LLC	3,162,506	HARRISON, COLIN ROGER	3,151,886
BINESH, RAZ	3,121,491	F.P. BOURGAULT TILLAGE TOOLS LTD.	3,121,723	HASCHKE, PAUL C.	3,162,483
BIROS, JAMES A.	3,161,058	FARDA HOLDINGS LTD.	3,121,366	HC PROPERTIES INC.	3,161,613
BOJECZKO, GEORGE NICHOLAS	3,121,762	FICHTER, WALTER	3,173,872	HE, HUI	3,127,968
BOTURA, GALDEMIR CEZAR	3,160,193	FISCHER, CHRISTIAN	3,173,872	HEATCRAFT REFRIGERATION PRODUCTS LLC	3,162,292
BRACHA, GIDI	3,150,311	FLUENTES, ROGER G.	3,155,460	HENDERSON, PAUL	3,155,460
BREDIF, PHILIPPE	3,161,695			HENRY JR., MARK	
BRUDEVOLD, MARK J.	3,161,577			ANTHONEY	3,152,717
BRUNONE, RENE	3,161,910			HERRINGTON, JEFFREY G.	3,160,891

**Index of Canadian Applications Open to Public Inspection
December 4, 2022 to December 10, 2022**

HILL, ANDREW	3,161,837	LOCKYER, JOHN F.	3,160,822	PRATT & WHITNEY CANADA	
HILL, KELLEN B.	3,153,138	LURZ, MELANIE	3,162,146	CORP.	3,172,127
HO, DENNIS	3,146,677	MACNEIL IP LLC	3,155,194	PRO-CORD S.P.A.	3,159,987
HOBART, KARA M.	3,155,460	MACNEIL, DAVID F.	3,155,194	PUBRAT, DAVID	3,161,837
HOFFMAN, RONALD J.	3,161,799	MAHOUTIAN, MEHRDAD	3,146,526	RANSOM, PAUL	3,160,494
HOLOTYAK, TARAS	3,162,056	MAIMAN, TYLER	3,161,996	RATH, TOBIAS	3,173,872
HSIUNG, LI-YU	3,143,044	MAIR, ROLAND	3,160,820	RESSLER, KYLE	3,160,560
HUANG, FAN-YUN	3,143,044	MANNING, JENNIFER	3,161,685	ROGERS, JOSHUA MERLE	3,152,717
HUANG, SHU-HONG	3,143,044	MANNING, JENNIFER	3,161,828	ROSANA, MICHAEL	3,160,904
HYDROGENICS		MARZOTTO, MICHELE	3,151,535	SAADATPANAH, PARSA	3,162,059
CORPORATION	3,161,837	MASSE, JOEL	3,121,031	SAFRAN LANDING SYSTEMS	
IAKOVLEVA, EKATERINA	3,161,695	MATZ, VANCE JOHN	3,161,058	CANADA INC.	3,121,031
IBATULLIN, TAIR	3,121,491	MCDONNELL, WILLIAM T.	3,162,483	SAVOIE, LUC	3,122,635
INTELLIGENT WELLHEAD		MERHI, KHALID	3,162,146	SCHEVE, MICHAEL	3,161,745
SYSTEMS INC.	3,121,499	MEUNIER, DEVON	3,146,677	SCHIEL, UWE	3,121,814
INTERNATIONAL TRUCK		MIDDLETON, PATRICK	3,161,745	SCHIRDEWAHN, BERNHARD	3,155,951
INTELLECTUAL		MIDDLETON, PATRICK	3,161,750	SCHNEIDER, STEPHEN P.	3,161,577
PROPERTY COMPANY,		MILLER, DAVID		SCHREINER GROUP GMBH &	
LLC	3,154,197	BLUGERMAN	3,161,058	CO. KG	3,155,951
ITOH, TERUAKI	3,161,229	MITEL NETWORKS		SEELLENFREUND, MARC	3,150,311
IVERSON, DAVID S.	3,155,194	CORPORATION	3,162,137	SEGAL, BENJAMIN	3,121,355
JOHNSON, TYE ARON	3,162,506	MOHAMMAD, MURAD	3,121,499	SEMINIS VEGETABLE SEEDS,	
JOHNSON, YVONNE M.	3,161,058	MOLLO, MARCO	3,161,071	INC.	3,161,782
JONAT, PASCAL	3,160,236	MOLLO, MARCO	3,161,081	SHAH, SALIK	3,161,996
JONES, IAN	3,121,768	MONTES, CHRISTIAN	3,161,902	SHANDONG UNIVERSITY OF	
JOST-WERKE DEUTSCHLAND		MOODY, JUSTIN KLAY	3,162,506	TECHNOLOGY	3,156,201
GMBH	3,161,915	MULLER, MARK	3,161,915	SHAO, HUIFANG	3,160,494
JOST-WERKE DEUTSCHLAND		MULLER, MARK	3,161,920	SHAO, YIXIN	3,146,526
GMBH	3,161,920	MUNDAY, GEORGE SWOPE	3,153,495	SHENOUDA, ANTWAN	3,162,381
JOVET, BASTIEN	3,161,909	MURCH, OLIVIA	3,155,460	SHENOUDA, ANTWAN	3,162,443
KAMEDA, TSUNEJI	3,161,426	NAIDOO, LOGENDRA	3,162,137	SHIGETA, YASUSHI	3,161,482
KAVIANI, DANIAL	3,121,491	NEUBAUER, CASEY C.	3,148,060	SHINYDOCS CORPORATION	3,162,146
KBA INDUSTRIES LIMITED	3,121,762	NGUYEN, TRUNG DUNG	3,121,337	SHOPIFY INC.	3,146,677
KENNEDY, RUSSELL R.	3,160,984	NISTEA, RADU	3,121,031	SHOPIFY INC.	3,146,991
KIESSLING, ROBERT F.	3,161,926	NORDAA, STIG MAGNOR	3,121,072	SHOPIFY INC.	3,148,188
KIM, YONG W.	3,160,822	NOURI, MOHAMMAD REZA	3,121,366	SIDAT, OSAMA	3,146,677
KINLE, ULRICH	3,160,236	OLIVER PACKAGING AND		SIYATA MOBILE INC.	3,150,311
KIRK, ROBERT GORDON	3,121,762	EQUIPMENT COMPANY	3,161,058	SLANEY, TYLER	3,162,146
KLASMEIER, HOLGER	3,160,931	OLSON, JUSTIN A.	3,161,926	SMARRELLI, JOSEPH A., JR.	3,161,747
KLIEBER, JOCHEN	3,162,198	OPPELAAR, ARIE	3,161,782	SMITH, CALEB	3,161,929
KOPREK, DERICK JASON	3,151,535	OPTOTECH		SMITH-ROSE, ASHER	3,161,996
KORTMAN, JOHN CURTIS	3,161,058	OPTIKMASCHINEN		SOLAR TURBINES	
KRAATZ, MARK	3,162,146	GMBH	3,161,459	INCORPORATED	3,160,822
KRISHNATHAS, MYEN	3,161,837	OSADA, NORIKAZU	3,161,426	SORBERA, SONIA	3,161,837
KUCERA, JAROSLAV	3,160,835	OU, YU-CHENG	3,131,822	SOREMARTEC S.A.	3,161,071
KUPPUSAMY, KARTHICK	3,162,292	OU, YU-CHENG	3,143,044	SOREMARTEC S.A.	3,161,081
LACHAPPELLE-TROUILLARD,		OZKURT, SULEYMAN	3,173,872	SORENSEN, TOM LEE	3,154,197
XAVIER	3,161,470	PADGETT, NEIL LEONARD	3,148,188	SORKIN, ALEXANDER	3,121,768
LACK, OSWIN	3,161,459	PALMER, JOEY A.	3,161,747	SPAGNOLI, ROBERT A.	3,161,747
LAI, YING-TA	3,131,822	PARKER, V. MARTIN	3,121,320	SPEIDEL, THOMAS	3,121,491
LAI, YING-TA	3,143,044	PAWLOWICZ, CHRISTOPHER	3,121,768	STAN, OVIDIU	3,160,931
LAMPLIGHT FARMS		PAYETTE, OLIVER	3,161,470	STROUMPOULIS, DIMITRIOS	3,156,960
INCORPORATED	3,160,560	PERMASTEELISA NORTH		SUGARLOAF CAPITAL INC.	3,122,635
LANDRY, CHRIS	3,162,146	AMERCIA CORP.	3,151,535	SUN, BINBIN	3,156,201
LANTZSCH, ROBIN	3,173,872	PETERSON, NICHOLAS P.	3,161,577	SUNCOR ENERGY INC.	3,121,491
LARSON, JEFFREY	3,151,054	PIRETTI, ALESSANDRO	3,159,987	SUSMITHA, HANUMANATHU	3,162,137
LEE, JOHN JONG-SUK	3,146,677	POIRIER, ALEXANDRE	3,121,031	TAFT, JEFFREY D.	3,148,060
LEE, JOHN JONG-SUK	3,146,991	PRATT & WHITNEY CANADA		TANISHA, TANTRI	3,162,137
LEE, JOHN S.	3,148,188	CORP.	3,160,900	TARAN, OLGA	3,162,056
LEI, XIANLIN	3,127,968	PRATT & WHITNEY CANADA		TAYLOR, ANDREW	3,160,193
LGL FRANCE S.A.S.	3,161,909	CORP.	3,162,381	TAYLOR, ROBERT	3,161,879
LI, BO	3,156,201	PRATT & WHITNEY CANADA		TECHINSIGHTS INC.	3,121,768
LI, WENTAO	3,156,201	CORP.	3,162,443	TECHTRONIC CORDLESS GP	3,161,780
LIAO, JIM-YI	3,143,044			TECHTRONIC CORDLESS GP	3,161,799

**Index des demandes canadiennes mises à la disponibilité du public
4 décembre 2022 au 10 décembre 2022**

THALES MANAGEMENT & SERVICES	
DEUTSCHLAND GMBH	3,160,931
THE BOEING COMPANY	3,160,820
THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY	3,146,526
THIES, ERIC M.	3,153,138
TIAN, ZHONGSHU	3,133,664
TIMBER AUTOMATION, LLC	3,160,984
TINSLEY, DOUGLAS MONROE	3,160,984
TIX, JOSEPH E.	3,161,577
TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION	3,161,426
TREULIEB, CRAIG	3,162,146
TSAI, CHUNG-WEI	3,131,822
TSAI, RUEI-YI	3,131,822
TSAI, RUEI-YI	3,143,044
TURCOTTE, HERVE	3,172,127
TUTT, JOAKIM	3,162,056
UNIVERSITY DE GENEVE	3,162,056
UPTON, SCOTT A.	3,148,060
USASZ, MITCHELL R.	3,153,138
VALLERIUS, RALF	3,161,459
VANLEEUVEN, PETER	3,162,146
VEMULAPALLI, VANI	3,155,460
VERRET, SCOTTY	3,161,879
VIGNEAULT, BERNARD	3,121,031
VOGEL, DOMINIK	3,146,214
VOGEL, DOMINIK	3,146,330
VOLKEN, CLAUDE	3,161,459
VOLOSHYNOVSKIY, SVYATOSLAV	3,162,056
VOR DER BRUGGEN, JENS	3,155,951
WALTER, MARK	3,155,951
WANG, DONGHUI DONNA	3,161,926
WANG, LEI	3,127,968
WANG, YONGJUN	3,156,201
WEISSENBERGER, MARKUS	3,121,072
WESTROCK SHARED SERVICES, LLC	3,162,483
WHIPPLE, COLBY	3,121,075
WHIPPLE, COLBY	3,160,115
WHITEWAY, LARRY	3,121,685
WIEMANN, DAVID J.	3,162,483
WOHRLE, MARKUS	3,160,236
XIAN, XIANGPING	3,146,526
XUE, FEI	3,127,968
YAN, RENQIANG	3,161,780
YU, BEN	3,160,560
YUAN, XIAO NING	3,121,346
ZAAG, NADER	3,161,837
ZEITLER, LUCAS HENRY	3,160,560
ZHANG, TIEZHU	3,156,201
ZHU, HONGXIANG	3,127,968

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

4233999 CANADA INC.	3,173,599	AHMAD, SAIF	3,173,438	ALSHAIBA SALEH	
52 NORTH HEALTH LTD	3,173,438	AHMED, MAHAMMAD SYED		GHANNAM	
9493662 CANADA INC.	3,173,455	MASTAFA	3,181,765	ALMAZROUEI,	
A-ALPHA BIO, INC.	3,173,351	AIDA EUROPE GMBH	3,181,342	MOHAMMED	3,173,508
A-DEC, INC.	3,173,442	AIFFA, MOHAMED	3,181,387	ALSHINA, ELENA	
AADIGEN, LLC	3,181,170	AIR COMPANY HOLDINGS,		ALEXANDROVNA	3,173,179
ABAD, DANIEL	3,181,921	INC.	3,173,600	ALT, CARSTEN	3,181,583
ABB SCHWEIZ AG	3,173,270	AIR COMPANY HOLDINGS,		ALTEOGEN, INC.	3,173,310
ABB SCHWEIZ AG	3,173,315	INC.	3,173,601	ALTREUTER, DAVID	3,173,792
ABB SCHWEIZ AG	3,173,398	AIR COMPANY HOLDINGS,		ALVAREZ, ADRIAN LEON	3,181,195
ABB SCHWEIZ AG	3,173,428	INC.	3,173,644	ALY, SHERIF	3,173,614
ABBI SAS	3,181,954	AIWALE, AMOL	3,181,959	AMBARTSOUMIAN,	
ABDALLAH, SLEIMAN	3,181,563	AIYAR, AVISHEK	3,173,685	GOURGEN	3,173,281
ABE, HIROSHI	3,173,751	AJAX THERAPEUTICS, INC.	3,181,537	AMBROSE, JAY H.	3,181,373
ABECASIS, GONCALO	3,181,178	AKI, INC.	3,181,182	AMERICAN	
ABECASIS, GONCALO	3,181,348	AKI, INC.	3,181,183	SUPERCONDUCTOR	
ABI AOUN, WALID	3,173,284	AKILI INTERACTIVE LABS,		CORPORATION	3,173,193
ABI AOUN, WALID	3,173,285	INC.	3,173,240	AMGEN INC.	3,173,706
ABI AOUN, WALID	3,173,286	AKOOPIE, ARVIN	3,173,803	AMGEN INC.	3,181,189
ABI AOUN, WALID	3,173,290	AL-KAABI, ALI	3,181,406	AMGEN INC.	3,181,213
ABI AOUN, WALID	3,173,292	ALAJANGI, TIRUPATHI RAO	3,167,753	AMGEN INC.	3,181,214
ABI AOUN, WALID	3,173,477	ALARM.COM		AMGEN INC.	3,181,330
ABI AOUN, WALID	3,173,499	INCORPORATED	3,181,167	AMGEN INC.	3,181,425
ABI AOUN, WALID	3,173,532	ALASTIN SKINCARE, INC.	3,173,279	AMGEN INC.	3,181,787
ABIOYE, JUMAI ADEOLA	3,173,429	ALBORA, GREGORY	3,173,693	AMIHAI, IDO	3,173,270
ABLOY OY	3,173,592	ALERIS ROLLED PRODUCTS		AMIHAI, IDO	3,173,398
ABNEY, CARTER W.	3,173,653	GERMANY GMBH	3,181,196	AMIHAI, IDO	3,173,428
ABTAHI, MOHAMMADREZA	3,173,667	ALERIS ROLLED PRODUCTS		AMLE, SHRUTI	3,173,418
ABUKWAIK, HADIL	3,173,270	GERMANY GMBH	3,181,199	AMORUSO, ANGELA	3,181,953
ABUKWAIK, HADIL	3,173,398	ALETHIA BIOTHERAPEUTICS		AMT REMEDIATION PTY LTD	3,181,100
ABUKWAIK, HADIL	3,173,428	INC.	3,173,786	AMYLOID SOLUTION INC.	3,173,406
ACCESS TO ADVANCED		ALEXION		AN, JINGYAN	3,181,337
HEALTH INSTITUTE	3,173,408	PHARMACEUTICALS,		ANAGRAM INTERNATIONAL,	
ACCORD PACIFIC EUROPE SA	3,173,634	INC.	3,173,631	INC.	3,173,202
ADAMY, STEVEN	3,173,074	ALEXION		ANANDAN, ARUN	3,173,495
ADAMY, STEVEN	3,173,075	PHARMACEUTICALS,		ANASTASSIADIS, THEONIE	3,182,026
ADD ADVANCED DRUG		INC.	3,173,820	ANDERSON, DAWN LOUISE	3,181,175
DELIVERY		ALFA LAVAL CORPORATE		ANDERSON, ERIN DANIELLE	3,173,569
TECHNOLOGIES LTD.	3,181,645	AB	3,173,815	ANDERSON, KRAIG	3,173,761
ADD ADVANCED DRUG		ALI, M. MONSUR	3,173,740	ANDERSSON, OSKAR	3,181,617
DELIVERY		ALIBASIC, AZIZ	3,177,161	ANDRES, PHILIPPE	3,173,163
TECHNOLOGIES LTD.	3,181,940	ALKEM LABORATORIES		ANDRITZ INC.	3,173,217
ADEDOKUN, OMONIYI	3,181,949	LIMITED	3,181,959	ANG, LAY TENG	3,173,124
ADITXT, INC.	3,181,179	ALLAN, LAURA E.N.	3,181,782	ANGAMUTHU GANESAN,	
ADLER, MARC	3,181,786	ALLARD-LATOUR, AURELIE		MAHENDRA KUMAR	3,173,495
ADORX THERAPEUTICS		MARIE	3,173,646	ANGSTROM BIO, INC.	3,173,190
LIMITED	3,181,354	ALLEN INSTITUTE	3,173,609	ANNESE, LUIGI	3,173,792
ADUSUMILLI, PRASAD S.	3,181,394	ALLERGAN, INC.	3,181,169	ANSON, JONATHAN	3,181,330
AEOVIAN		ALMASI, ANDOR	3,173,397	ANTAROS MEDICAL AB	3,173,517
PHARMACEUTICALS,		ALNYLAM		ANTONY, THOMAS	3,177,161
INC.	3,173,722	PHARMACEUTICALS,		ANTROPOW, ALYSSA H.	3,167,753
AFEYAN, NOUBAR BOGHOS	3,182,026	INC.	3,181,198	ANZELLOTTI, ATILIO	3,181,414
AGARWAL, PIYUSH	3,167,753	ALNYLAM		APL NORWAY AS	3,173,197
AGUS, SAMUEL	3,173,112	PHARMACEUTICALS,		APOLLONICS INC.	3,181,336
AHEARN, DANIEL THOMAS	3,173,479	INC.	3,181,400	APPBRILLIANCE, INC.	3,173,102
AHEARN, DANIEL THOMAS	3,173,485			ARABZADEH, HAMID	3,172,560

Index des demandes PCT entrant en phase nationale

ARAKAWA, JUNICHI	3,173,296	AUTOMOTIVE COALITION	BARDET, BENOIT	3,173,283
ARAKAWA, JUNICHI	3,173,753	FOR TRAFFIC SAFETY,	BARKER, CHARLES LOUIS	
ARAL, MERT	3,181,208	INC.	ALBARTUS	3,173,411
ARAOKA, KATSUMASA	3,181,008	AUTOSTORE TECHNOLOGY	BARNES, ROBERT	3,181,339
ARASTOO, MOHAMMAD	3,181,388	AS	BARRAUD, OLIVIER	3,173,718
ARASTOO, MOHAMMAD	3,181,391	AUTOSTORE TECHNOLOGY	BARRECA, MARIA LETIZIA	3,173,357
ARASTOO, MOHAMMAD	3,181,393	AS	BARRERA, CAROLA	3,173,757
ARCELORMITTAL	3,181,191	AUYEUNG, EVELYN	BARRETT, DAVID M.	3,173,061
ARCELORMITTAL	3,181,644	AVAIS, FARIHA	BARRETT, STEPHEN JOHN	3,173,415
ARCELORMITTAL	3,181,795	AVRIL, FABRICE	BARTA, BRENT	3,173,215
ARCTICZYMES AS	3,173,175	AWARE, BABASAHEB	BARTLETT, MARK J.	3,181,922
ARELL, LARS GUSTAF	3,173,087	AYESTARAN, SERGIO	BARTLETT, SAMUEL	3,173,333
ARINE, INC.	3,181,594	GUSTAVO	BASAR, RAFET	3,181,774
ARITA, YUKO	3,173,429	AZNAREZ, ISABEL	BASF COATINGS GMBH	3,173,409
ARIYOSHI, HIROTAKA	3,173,751	BAAREN, SANDER	BATTA, RAGHAV	3,173,078
ARKEMA, INC.	3,173,405	BACHER, GERALD DAVID	BATTU, SERGE	3,173,718
ARMBRUSTER, UWE	3,175,812	BACHMANN, ARTUR	BATUREVYCH, OLEKSANDR	3,181,399
ARMOR	3,173,168	BACHMANN, FRIEDMUND	BATWAL, RAMESH	3,173,504
ARMSTRONG, FRANCES	3,181,389	BADALONE, RICCARDO	BAUCOM, KYLE D.	3,181,213
ARNASON, INGOLFUR	3,172,873	BADEAU, BARRY	BAVARI, SINA	3,173,172
ARNOLD, MIRKO A.	3,173,481	BADER, ANDREAS	BAYER	
ARNOULD, GILBERT	3,181,409	BAE SYSTEMS CONTROLS	AKTIENGESELLSCHAFT	3,181,349
ARONOW, SEAN DOUGLAS	3,173,569	INC.	BAYER ANIMAL HEALTH	
ARREDOUANI, MOHAMED		BAESLER, MALTE	GMBH	3,173,383
SIMO	3,181,340	BAIG, ARIF ALI	BAYER HEALTHCARE LLC	3,181,544
ARVINAS OPERATIONS, INC.	3,181,782	BAIG, ARIF ALI	BAYLOR COLLEGE OF	
ASADA, MASAKI	3,181,604	BAIG, ARIF ALI	MEDICINE	3,181,371
ASBERG, PETER	3,181,631	BAILEY, SARAH	BAYLOR COLLEGE OF	
ASCENDO BIOTECHNOLOGY,		BAILLY, ADRIEN	MEDICINE	3,181,374
INC.	3,173,603	BAKALARA, NORBERT	BAYLOR COLLEGE OF	
ASHVATTHA THERAPEUTICS,		BAKER HUGHES OILFIELD	MEDICINE	3,181,377
INC.	3,181,171	OPERATIONS, LLC	BAYLOR UNIVERSITY	3,181,227
ASML NETHERLANDS B.V.	3,173,642	BAKER HUGHES OILFIELD	BAYLOR UNIVERSITY	3,181,331
ASMUS, ELISABETH	3,181,349	OPERATIONS, LLC	BAYLOR UNIVERSITY	3,181,332
ASTRAZENECA AB	3,181,382	BAKER, DAVID	BEASLEY, DENNY D.	3,173,439
ATEA PHARMACEUTICALS,		BAKKE, RONNY	BEAUCOURT, STEPHANIE	3,173,158
INC.	3,173,656	BALAN, CATALIN MIHAI	BECASSE, SEBASTIEN	3,173,283
ATEA PHARMACEUTICALS,		BALAN, CATALIN MIHAI	BECHWITH, CAROLINE	3,173,641
INC.	3,173,661	BALAN, CATALIN MIHAI	BECKER, CHRISTIAN	3,173,405
ATEA PHARMACEUTICALS,		BALAN, CATALIN MIHAI	BECKS, VINCENT JOHN	3,173,147
INC.	3,173,701	BALAN, CATALIN MIHAI	BECTON, DICKINSON AND	
ATELIERS BUSCH SA	3,173,403	BALAN, CATALIN MIHAI	COMPANY	3,173,662
ATI, INC.	3,181,557	BALAN, CATALIN MIHAI	BECTON, DICKINSON AND	
ATKINS NUCLEAR SECURED		BALAN, CATALIN MIHAI	COMPANY	3,173,773
HOLDINGS		BALAN, CATALIN MIHAI	BECTON, DICKINSON AND	
CORPORATION	3,181,174	BALAN, TODD-MICHAEL	COMPANY	3,173,813
ATOMO COFFEE, INC.	3,173,468	BALESTRIERI, MARCO	BECTON, DICKINSON AND	
ATOSSA THERAPEUTICS,		BALIT-ACHIM, SIMON	COMPANY	3,173,823
INC.	3,173,515	BALLHAUS, LAUREN	BEG, CHRIS	3,173,361
ATOTECH DEUTSCHLAND		ELIZABETH	BEG, CHRIS	3,173,363
GMBH & CO. KG	3,173,505	BALLINGER, MARCUS DALE	BEG, CHRIS	3,173,370
AUDA, MICHAEL STEPHEN	3,173,116	BALTA, TRENT MATTHEW	BEGAUD, GAELLE	3,173,718
AUFBAU MEDICAL		BANAVAR, GURUDUTH S.	BEHENNA, DOUGLAS	3,181,676
INNOVATIONS LIMITED	3,173,100	BANERJEE, SOURABH	BEIJING ANDER	
AUFBAU MEDICAL		BANSAL, ASHISH	TECHNOLOGIES	3,181,937
INNOVATIONS LIMITED	3,173,111	BAOSHAN IRON & STEEL CO.,	BEIJING GOLDWIND SCIENCE	
AUH, YOON HO	3,173,624	LTD.	& CREATION	
AUMA RIESTER GMBH & CO.		BARAK, HILA	WINDPOWER	
KG	3,181,641	BARAS, ARIS	EQUIPMENT CO., LTD.	3,181,328
AURINIA		BARAS, ARIS	BEIJING GOLDWIND SCIENCE	
PHARMACEUTICALS		BARBA-SPAETH, GIOVANNA	& CREATION	
INC.	3,181,952	BARBEDETTE, LOIC	WINDPOWER	
AUST, DENNIS	3,181,196	BARBER, JOYANN	EQUIPMENT CO., LTD.	3,181,335
		BARD ACCESS SYSTEMS,		
		INC.		

Index of PCT Applications Entering the National Phase

BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD.	3,181,436	BESNARD, JEREMY	3,181,790	BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM	3,181,566
BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION	3,181,337	BETSON, TATIANA	3,173,499	BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM	3,181,774
BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION	3,181,482	BETSON, TATIANA	3,173,500	BOEHRINGER INGELHEIM INTERNATIONAL GMBH	3,181,350
BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION	3,181,555	BETSON, TATIANA	3,173,501	BOEHRINGER INGELHEIM INTERNATIONAL GMBH	3,181,776
BEIJING SHOWBY PHARMACEUTICAL CO., LTD.	3,181,333	BETTLE, III GRISCOM	3,173,441	BOGAN, BOGAN	3,181,928
BEIJING SURGERII TECHNOLOGY CO., LTD.	3,173,577	BETTOUN, JOAN DAVID	3,173,130	BOGDAN, GREG	3,173,585
BEIJING SURGERII TECHNOLOGY CO., LTD.	3,173,645	BEURDELEY, DAMIEN	3,173,670	BOGDANOWICZ, MITCHELL J.	3,181,332
BEIJING SURGERII TECHNOLOGY CO., LTD.	3,173,684	BGI SHENZHEN	3,181,585	BOGDEN, ROBERT	3,173,307
BEILHART, JESSE C.	3,173,484	BHARUCHA, NARIMAN	3,173,767	BOGEL, ANNETTE	3,173,383
BELL, ANDREW SIMON	3,181,790	BHAT, ADVAIT	3,181,547	BOHAC, GERRY CHESTER	3,181,535
BELLEHUMEUR, CELINE	3,181,409	BHISE, NUPURA	3,173,792	BOHAM, SCOTT GEORGE	3,173,388
BELLEVILLE, PIERRE	3,173,449	BHUIYAN, A B M ABDUL ALI	3,173,659	BOHNET, HARRY	3,173,017
BELNOUE, OLIVIER	3,173,655	BIASINI, EMILIANO	3,173,357	BOIVIN, MICHEL	3,173,716
BELT, JOHANNES WILHELMUS	3,181,651	BIDAULT, BORIS	3,173,465	BOLGUNAS, STEPHEN P.	3,181,219
BEN HARRATH, ALEXANDRE	3,173,200	BIESBROCK, AARO REED	3,181,345	BOLLENBACH-WAHL, BIRGIT	3,181,349
BENATAR, TANIA	3,173,810	BIESBROCK, AARON REED	3,181,915	BOLLIG, GARRISON	3,181,919
BENNETT, ELIZABETH ALEXANDRA	3,165,187	BIESBROCK, AARON REED	3,181,916	BOLLINGER, JASON E.	3,181,383
BENNIG, NICHOLAS	3,173,624	BILTCLIFFE, JACK	3,173,182	BOLT MEDICAL, INC.	3,181,220
BERARD, LOUIS	3,173,451	BINDER, FLORIAN PAUL CHRISTIAN	3,181,350	BONESKY, NEIL	3,173,017
BERCHEM, GUY	3,181,609	BINGER, MICHAEL A.	3,173,116	BONNET, FREDERIC	3,181,795
BERENDES, SARAH	3,173,820	BINNER, CURT	3,181,597	BORETIUS, TIM	3,181,625
BERESIS, RICHARD	3,181,786	BINNER, CURT	3,181,602	BORGHESE, NUNZIO ALBERTO	3,173,157
BEREZNAK, JAMES FRANCIS	3,181,219	BIOAGE LABS, INC.	3,181,403	BORSADIA, SURESH	3,173,322
BERG, ANDERS H.	3,181,533	BIOARCTIC AB	3,181,207	BOSSART, MARTIN	3,173,517
BERG, JAMES GODFREY	3,181,423	BIOASTER	3,173,822	BOSTIK, INC.	3,173,166
BERG, THOMAS GODFREY	3,181,423	BIOCORP PRODUCTION S.A	3,173,312	BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED	3,173,132
BERGER, JEAN-MICHEL	3,181,800	BIOHAVEN THERAPEUTICS LTD.	3,181,917	BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED	3,173,410
BERGER, JEAN-MICHEL	3,181,801	BIOMERIEUX	3,173,822	BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED	3,173,440
BERGS, BIANCA	3,173,582	BIOMILQ, INC.	3,173,396	BOSTWICK, BRET LEE	3,181,400
BERLEE, ANTHONIE BERNARDUS	3,176,500	BIONOME TECHNOLOGY LIMITED	3,173,144	BOUCKE, EDDY ALBERIC	3,173,108
BERNACKI, JOSEPH PETER	3,181,787	BIOPHYTIS	3,173,112	BOUDREAU, SYLVAIN	3,173,623
BERNHAEUEROVA, VERONIKA	3,173,158	BIOSION INC.	3,173,201	BOULME, AUDREN	3,181,376
BERRY, DAVID ARTHUR	3,182,026	BISHOP, DAVID	3,173,500	BOURGALT, JORDAN	3,173,206
BERTHIAUME, NICOLAS	3,173,206	BISHOP, DAVID	3,173,501	BOUTHINON, BENJAMIN	3,181,929
BERTHOMME, SIMON	3,173,168	BISHOP, DAVID	3,173,503	BOWEN, JAMES	3,181,048
BERTONI, DAVID	3,173,271	BISPINGHOFF, MARK	3,181,173	BOWEN, JAMES	3,181,049
		BIZLINK INDUSTRY GERMANY GMBH	3,173,117	BOWEN, JAMES	3,181,164
		BJORKHOLM, JOHAN	3,173,771	BOYD, CLARK D.	3,173,704
		BJORKHOLM, JOHAN	3,181,666	BOYER, ROBERT	3,173,662
		BJORKHOLM, LARS	3,173,771	BOYLE, KATHLEEN	3,173,480
		BJORKHOLM, LARS	3,181,666	BOYLES, NICHOLAS	3,181,537
		BLACK, JOHN F.	3,181,220	BOYLES, NICHOLAS A.	3,173,569
		BLACKBERRY LIMITED	3,173,415	BRADISH, STILLMAN	3,181,775
		BLAIN, KATHERINE Y.	3,181,418	BRADLEY, ANTHONY RICHARD	3,181,790
		BLAIR, DAVID A.	3,181,776	BRAHMA, NEIL	3,173,685
		BLANC, HERVE	3,173,158	BRAIDA, MARC-DAVID	3,173,433
		BLANCHARD, OLIVER	3,173,182	BRATVOLD, JENNA KATHLEEN	3,173,769
		BLECK, JAMES	3,173,271	BRAUND, ERIK STUART	3,181,367
		BLOMQUIST, ROBERT E.	3,181,788	BRECIN, KARINE	3,173,518
		BLUE BUFFALO ENTERPRISES, INC.	3,181,200		
		BLUE SOLUTIONS CANADA INC.	3,173,691		
		BLUMKIN, MORIYA	3,173,425		
		BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA	3,173,611		

Index des demandes PCT entrant en phase nationale

BRENNAN, KEVIN	3,173,338	CAO, JINGJING	3,181,566	CHAGGARES, NICHOLAS	
BRENNAN, THOMAS	3,173,480	CAO, LIZHI	3,173,145	CHRIS	3,173,282
BRESSON, DAMIEN	3,173,208	CAO, LIZHI	3,173,668	CHAI, QING	3,173,162
BREW, CHRISTINE TAYLOR	3,173,799	CAPASSO, CRISTIAN	3,173,171	CHAN, DANNY YUAN	3,173,685
BRISTOL-MYERS SQUIBB COMPANY	3,167,753	CAPITAL ONE SERVICES, LLC	3,173,204	CHAN, DAPHNE	3,181,949
BROCHU, GUILLAUME	3,173,623	CAPITAL ONE SERVICES, LLC	3,173,621	CHAN, HUI MIN PHYLLIS	3,165,187
BRODIE, FRANK	3,181,412	CAPITAL ONE SERVICES, LLC	3,181,920	CHAN, JUSTIN HAN YANG	3,173,218
BRONSART, LAURA	3,173,418	CAPUTO, CHRISTOPHER B.	3,173,739	CHAN, JUSTIN HAN YANG	3,173,227
BROOKS, DAVID CHARLES	3,173,657	CAPUTO, DAVID	3,181,383	CHAN, JUSTIN HAN YANG	3,173,229
BROWN, CASY CLOUDLESS	3,173,243	CARAWAY, JOHN	3,173,286	CHAN, JUSTIN HAN YANG	3,173,230
BROWN, CASY CLOUDLESS	3,173,708	CARAWAY, JOHN WILL, JR.	3,173,705	CHAN, JUSTIN HAN YANG	3,173,231
BROWN, JOHN	3,181,932	CARDOT, PHILIPPE	3,173,718	CHAN, JUSTIN HAN YANG	3,173,233
BROWN, LOUISE	3,173,184	CARGILL, INCORPORATED	3,173,646	CHAN, JUSTIN HAN YANG	3,173,234
BROWN, MATTHEW J.	3,181,416	CARIDIS, ANDREW		CHAN, JUSTIN HAN YANG	3,173,235
BROWN, SPERRY K.	3,181,330	ANTHONY	3,173,077	CHAN, JUSTIN HAN YANG	3,173,238
BRUEN, CLAUDIA	3,173,182	CARL FREUDENBERG KG	3,181,372	CHAN, KEN Y.	3,181,623
BRYANT, JASON	3,181,921	CARLIER, VINCENT	3,181,368	CHANDARIA, SHERNEE	3,173,478
BRYNER, EDWARD A.	3,173,116	CARLSON, ANDY	3,181,919	CHANDRA, AROOP	3,181,351
BUCKEL, CHARLES T.	3,181,603	CARLSON, LOGAN	3,173,198	CHANG, CHIA-MING	3,173,603
BUDINCAK, JOHN F., JR.	3,181,383	CARNA BIOSCIENCES INC.	3,173,510	CHANG, WAYNE	3,181,778
BUKIN, MICHAEL	3,181,777	CARRAZCO, JOSE LUIS	3,173,686	CHANG, WEI-HUA	3,173,720
BURDUKIEWICZ, MICHAL	3,173,643	CARROLL, CHARLES		CHANGCHUN JETTY	
BUREAU, DAVID	3,173,385	PETERSON	3,173,637	AUTOMOTIVE PARTS	
BURGALAT, JEREMIE	3,173,693	CARRUTHERS, PETER A.	3,181,405	CORPORATION	3,173,649
BURGESS, JONATHAN	3,173,385	CARTON, HERVE	3,173,627	CHANGZHOU GLOBE CO.,	
BURKHART, BRANDON J.	3,173,757	CARTON, HERVE	3,173,670	LTD.	3,173,514
BURNHAM, BRENDA	3,173,207	CARUSO, VINCENZO	3,181,544	CHARI, AMALAVOYAL	
BURNS, SEAN MICHAEL	3,181,340	CASTORENO, ADAM	3,181,198	NARASIMHA	3,181,225
BUSCATO ARSEQUELL,		CASTORENO, ADAM	3,181,400	CHARI, AMALAVOYAL	
ESTELLA	3,181,349	CASTRO, MARCELA LUCIA	3,165,187	NARASIMHA	3,181,355
BUSCHERMOHLE, HERMANN	3,173,165	CATERPILLAR INC.	3,173,491	CHATAIN, PASCAL	3,181,386
BUTIKAS, RENATA A.	3,173,665	CATERPILLAR INC.	3,173,495	CHATURVEDI, SONALI	3,181,803
BUTLER, DAVID CHARLES		CCOA THERAPEUTICS INC.	3,181,176	CHAUDHURI, NARAYAN	3,173,661
DONNELL	3,182,026	CCOA THERAPEUTICS INC.	3,181,186	CHAUVIN, NICOLAS	3,173,693
BVBA DR. VAN DOORNE LUC	3,173,156	CEDARS-SINAI MEDICAL		CHE, JENNY	3,173,557
BWXT ADVANCED		CENTER	3,181,533	CHEN, CHI	3,173,600
TECHNOLOGIES LLC	3,173,497	CEDARS-SINAI MEDICAL		CHEN, CHI	3,173,644
BYUN, MINSOO	3,173,310	CENTER	3,181,571	CHEN, CHUNGPIN HERMAN	3,181,782
C LAB PHARMA		CELL IMPACT AB	3,173,114	CHEN, DIAO	3,173,417
INTERNATIONAL, S.A.	3,173,411	CELLEDIT LLC	3,173,490	CHEN, FANG	3,173,412
C2RO CLOUD ROBOTICS INC.	3,173,169	CELLVIE INC.	3,173,391	CHEN, GE	3,181,179
C4 THERAPEUTICS, INC.	3,165,309	CENTRE NATIONAL DE LA		CHEN, HUI	3,173,514
C4 THERAPEUTICS, INC.	3,173,629	RECHERCHE		CHEN, LI	3,181,882
C4 THERAPEUTICS, INC.	3,173,658	SCIENTIFIQUE (CNRS)	3,173,449	CHEN, LINFENG	3,173,484
CABLE, ADAM MICHAEL	3,181,414	CENTRE NATIONAL DE LA		CHEN, MINGHAN	3,181,796
CABRITA PAIS HOMEM, LUIS		RECHERCHE		CHEN, MINGJIU	3,173,201
MANUEL	3,181,799	SCIENTIFIQUE	3,091,457	CHEN, PING CHOU	3,173,375
CACERES VILLEGAS, JULIAN		CENTRE NATIONAL DE LA		CHEN, PING CHOU	3,173,388
HERMOYNER	3,173,646	RECHERCHE		CHEN, PING CHOU	3,173,389
CALLEJAS, JUAN F.	3,173,728	SCIENTIFIQUE	3,173,458	CHEN, PING CHOU	3,173,489
CALPRO ADAS SOLUTIONS,		CENTRE NATIONAL DE LA		CHEN, PING SHAN	3,173,474
LLC	3,173,648	RECHERCHE		CHEN, ROBERT	3,173,061
CAMAS INCORPORATED	3,177,290	SCIENTIFIQUE	3,173,560	CHEN, SHIXIANG	3,173,487
CAMELO, SERGE	3,173,112	CENTRE NATIONAL DE LA		CHEN, TZEHAU	3,181,361
CAMINIS, JOHN	3,173,330	RECHERCHE		CHEN, WEI	3,181,365
CAMMARANO, ANIELLO	3,173,199	SCIENTIFIQUE	3,173,693	CHEN, XIAOPING	3,181,333
CAMPBELL, JEREMY	3,173,824	CERULLO, VINCENZO	3,173,171	CHEN, YANG	3,181,949
CANADIAN TIRE		CETRES HOLDINGS, LLC	3,173,717	CHENG, YANJU	3,181,579
CORPORATION, LIMITED	3,181,467	CHA, EDWARD NAMSERK	3,165,187	CHENGDU CHIPSCREEN	
CANARD, BRUNO	3,173,701	CHA, JACOB	3,173,755	PHARMACEUTICAL LTD.	3,181,558
CANTLEY, LEWIS C.	3,173,777	CHA, JACOB	3,173,761	CHENNA, NAVEEN	3,181,201
CANTLEY, LEWIS C.	3,173,819	CHA, KWANG-HO	3,181,045	CHERIF, ALHAJI	3,181,780
CAO, HUI	3,173,333	CHABANE DE SAINT AUBIN,		CHERN, REY T.	3,181,425
		MOUNIA	3,173,112	CHERNEY, ROBERT J.	3,167,753

Index of PCT Applications Entering the National Phase

CHEVRON U.S.A. INC.	3,182,010	CHURCH & DWIGHT CO., INC.	3,173,075	CORCORAN, ELLEN T.	3,173,404
CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.	3,181,579	CHURCH & DWIGHT CO., INC.	3,173,652	CORCORAN, JOHN F.	3,173,404
CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.	3,181,589	CIPO	3,173,107	CORCORAN, MARY A.	3,173,404
CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.	3,181,598	CIPO	3,173,280	CORDOVA, IGNACIO J.	3,173,116
CHIANG, YET-MING	3,181,593	CIPO	3,173,351	CORGIE, STEPHANE CEDRIC	3,173,419
CHIARO TECHNOLOGY LIMITED	3,173,182	CIPO	3,173,711	CORNELL UNIVERSITY	3,173,777
CHIARO, JACOPO	3,173,171	CIPO	3,173,724	CORNELL UNIVERSITY	3,173,819
CHICHILI, VISHNU PRIYANKA REDDY	3,173,519	CJ CHEILJEDANG CORPORATION	3,173,133	CORNELL UNIVERSITY	3,181,166
CHILAKALA, DHANARAJ	3,181,917	CLACK, GLEN	3,181,382	CORNU, DAVID	3,091,457
CHILDREN'S MEDICAL CENTER CORPORATION	3,181,591	CLARIDGE, TAIS BJERG	3,173,638	CORREA VELANDIA, HEBELIN	3,173,462
CHILLAKURI, CHANDRAMOULI	3,181,362	CLARK, ANDREW S.	3,181,405	CORSO, DAN	3,181,563
CHILTON, RUTH	3,173,757	CLARK, WESLEY P.	3,173,214	COSMAN, JENNIFER L.	3,181,922
CHIN, GREGORY F.	3,181,922	CLARKE, BRANDON	3,181,544	COSTA, SIMONE A.	3,181,352
CHINA PETROLEUM & CHEMICAL CORPORATION	3,181,337	CLARKE, MATTHEW	3,181,412	COSTAGLIOLA, CIRO	3,181,953
CHINA PETROLEUM & CHEMICAL CORPORATION	3,181,482	CLARKE, MICHAEL O.	3,181,922	COTTER, CHRISTOPHER ROLAND	3,165,187
CHINA PETROLEUM & CHEMICAL CORPORATION	3,181,555	CLEARWATER, JOHN	3,173,144	COULTER, IVAN	3,173,107
CHINA UNIVERSITY OF MINING AND TECHNOLOGY	3,181,365	CLEGG, NIGEL MARK	3,173,683	COUSIN, JULIEN	3,173,693
CHIOUA, MONCEF	3,173,270	CLELAND, JEFFREY	3,181,171	CRAWFORD, GORDON	3,181,174
CHIOUA, MONCEF	3,173,315	CLOETER, NATHAN	3,173,141	CREATIVE BIOSCIENCES (GUANGZHOU) CO., LTD.	3,181,473
CHIOUA, MONCEF	3,173,398	COASTAL WATERS BIOTECHNOLOGY 2, INC.	3,173,615	CRODA INTERNATIONAL PLC	3,173,462
CHIOUA, MONCEF	3,173,428	CODINA CASTILLO, NURIA	3,173,628	CRODA, INC.	3,173,462
CHO, ALEX	3,181,557	CODY, TOM	3,181,919	CRONENBERG, RICHARD	3,173,662
CHO, EDWIN H.	3,173,116	COEURATIVE, INC.	3,173,143	CROSS, JENNIFER	3,173,285
CHO, JEONG SOO	3,173,310	COFFINARDI & DELPANNO INDUSTRIE SRL	3,181,653	CROSS, JENNIFER	3,173,532
CHO, MARK	3,173,116	COFFINARDI, ALESSANDRO	3,181,653	CROSS, JENNIFER	3,181,952
CHO-SCHULTZ, SUJIN	3,181,415	COFFINARDI, MARCO	3,181,653	CROTEAU, DAVID	3,173,206
CHOI, JAE HYUK	3,173,353	COGNITIVE SYSTEMS CORP.	3,173,361	CROUZET	3,173,627
CHOI, JINSOO	3,181,798	COGNITIVE SYSTEMS CORP.	3,173,363	CROUZET	3,173,670
CHOI, SUN HYOUNG	3,173,133	COGNITIVE SYSTEMS CORP.	3,173,370	CRUZ TERAN, CARLOS ALBERTO	3,173,800
CHOQUET, MARC	3,173,707	COHAS, QUENTIN	3,173,312	CSPC ZHONGQI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD	3,173,804
CHRISTENSEN, ROBERT I	3,173,355	COHEN, PINCHAS	3,181,427	CUERVO, JULIO HERNAN	3,167,753
CHRISTENSEN, TOR	3,173,632	COHOON, MICHAEL TERRENCE	3,173,093	CUI, NANNAN	3,181,337
CHRISTIAN, TWINKLE R.	3,173,706	COLE, DEREK CECIL	3,173,129	CUI, SHENG	3,181,213
CHRISTODOULOU, ANTHONY	3,181,571	COLE, TRACY A.	3,181,546	CUI, XINGYE	3,173,585
CHU, FULIANG	3,181,566	COLLINS, JAMESON JOHN	3,173,619	CULEN, MATTHEW	3,173,271
CHU, WENJIANG	3,181,420	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	3,173,560	CULL, JANA E WHEELER	3,173,711
CHUA, XUE YING	3,173,455	COMMONWEALTH FUSION SYSTEMS LLC	3,173,407	CURACH, NATALIE	3,173,184
CHUANG, EMIL	3,173,506	COMPAGNIE GERVAIS DANONE	3,173,150	CURIE CO. INC.	3,181,352
CHUGAI SEIYAKU KABUSHIKI-KAISHA	3,173,519	CONDUCTIX WAMPFLER FRANCE	3,181,800	CURTIS, MICHAEL DAVID	3,181,210
CHUGAI SEIYAKU KABUSHIKI-KAISHA	3,173,587	CONDUCTIX WAMPFLER FRANCE	3,181,801	CURTIS, MICHAEL DAVID	3,181,212
CHUI, STEPHEN	3,165,187	CONNOR, SPENCER K.	3,181,373	CUSICK, VALERIE ANN	3,181,779
CHUN, JINYOUNG	3,181,798	CONNOR, SPENCER KEITH	3,181,390	CUTI, ALEXANDER R.	3,173,116
CHUNG, HYUNG JOON	3,181,467	CONSTANS, CHARLOTTE	3,181,398	CYSEWSKI, DOMINIK	3,173,643
CHURCH & DWIGHT CO., INC.	3,173,074	COOK, CHRISTOPHER A.	3,181,220	CYTOBAY INC.	3,181,420
		COOPER, LISA MARGARET	3,181,947	CYTOKINETICS, INC.	3,181,351
		COOPER, TAMARA	3,173,795	CZIBUR, ADAM	3,181,544
		COPLEY, SIMON JAMES	3,173,479	D'AGOSTINO, LUCA	3,173,111
		COPLEY, SIMON JAMES	3,173,483	D'ASTOLFO, LEROY	3,173,283
		COPLEY, SIMON JAMES	3,173,485	D'HAESE, PIERRE	3,173,456
		COPPOLA, GIOVANNI	3,181,178	DA CRUZ, LUIS	3,171,363
		COPPOLA, GIOVANNI	3,181,348	DADLEZ, MICHAL	3,173,643
		CORBETT, MICHAEL T.	3,181,213	DAESCHLER, VALERIE	3,181,795
		CORBINEAU, MATHIEU	3,173,774	DAHL, PER JUUL	3,173,638
				DAHLGREN, MARKUS K.	3,173,569
				DAICEL CORPORATION	3,181,656
				DAIGLE, TANYA	3,173,609

Index des demandes PCT entrant en phase nationale

DALE, PARKER D.	3,181,385	DEPUY SYNTHES PRODUCTS,	DONOVAN, KATHERINE	3,173,819	
DALEY, GEORGE Q.	3,173,780	INC.	3,181,549	DONOVAN, KATHERINE A.	3,173,777
DALLAIRE, JOLAIN	3,173,451	DERKACZ, PATRICK R.	3,173,401	DORNAN, PETER K.	3,181,213
DALLAIRE, MATS	3,173,451	DERMODY, DANIEL L.	3,173,475	DOW GLOBAL	
DALY, JOSEPH M.	3,173,242	DESAI, NEIL P.	3,181,170	TECHNOLOGIES LLC	3,173,475
DANA-FARBER CANCER		DESEURE, JONATHAN	3,173,449	DOW GLOBAL	
INSTITUTE, INC.	3,173,679	DEUTSCHES		TECHNOLOGIES LLC	3,173,484
DANA-FARBER CANCER		KREBSFORSCHUNGSZEN		DOW GLOBAL	
INSTITUTE, INC.	3,173,777	TRUM STIFTUNG DES		TECHNOLOGIES LLC	3,173,492
DANA-FARBER CANCER		OFFENTLICHEN RECHTS	3,173,151	DOZIER, JOSH M.	3,181,182
INSTITUTE, INC.	3,173,819	DEUTSCHES		DOZIER, PAMELA	3,173,652
DANISCO US INC	3,173,355	KREBSFORSCHUNGSZEN		DR. FALK PHARMA GMBH	3,173,812
DAO, TUAN	3,173,089	TRUM, STIFTUNG DES		DRAGER SAFETY AG & CO.	
DARWISH, IHAB	3,173,432	OFFENTLICHEN RECHTS	3,173,613	KGAA	3,173,444
DAS, SUBHENDU	3,173,418	DEVASSINE, HRAZHYNIA	3,181,183	DRAGER SAFETY AG & CO.	
DAUCHOT, NICHOLAS		DEVASSINE, MICKAEL	3,181,182	KGAA	3,173,447
RANDOLPH	3,181,467	DEVASSINE, MICKAEL	3,181,183	DRAGER SAFETY AG & CO.	
DAVAILLON, EMMANUEL	3,173,463	DEVERMAN, BENJAMIN E.	3,181,623	KGAA	3,173,467
DAVIES, ASHLEY	3,173,498	DEVINE, GABRIELLA	3,173,675	DRAKE, CHRISTINA	
DAVIES, GARETH	3,173,132	DEWITT, MEGHAN	3,173,820	HARTSELL	3,181,177
DAVIES, GARETH	3,173,410	DEXCOM, INC.	3,181,181	DRUMMOND SAMUELSON,	
DAVIES, GARETH	3,173,440	DEZIELLE, JONATHAN W.	3,173,198	MEGHAN	3,181,178
DAVIS, BRECK	3,181,913	DHAR, T. G. MURALI	3,167,753	DRUMMOND SAMUELSON,	
DAVIS, JOHN	3,173,173	DHE-PAGANON, SIRANO	3,173,679	MEGHAN	3,181,348
DAVIS, MATTHEW JOSEPH	3,173,793	DHUPPAD, ULHAS	3,181,959	DSM AUSTRIA GMBH	3,173,395
DAVIS, MICHAEL FOSTER	3,173,493	DI FEBBO, DAVIDE	3,173,157	DSM IP ASSETS B.V.	3,181,651
DAVIS, MICHAEL FOSTER	3,173,494	DI FIORE, PIER PAOLO	3,173,152	DU, MIN	3,181,589
DAVIS, MICHAEL FOSTER	3,173,705	DIAMENTIS INC.	3,173,341	DU, XIUZHEN	3,181,589
DAVIS, TRACY M.	3,182,010	DIAZ, JR. LUIS	3,173,453	DUBIELLA, CHRISTIAN	3,173,679
DAWSON, JOSEPH	3,176,129	DICICCO, MATTHEW	3,173,440	DUEY, DANA YEN MEI	3,181,197
DAXOR CORP.	3,181,414	DIENER, KERRILYN R.	3,173,795	DUFFAUD, BERTRAND	3,173,655
DAY, ANDREW	3,173,675	DIETL, JOCHEN	3,173,887	DUFOUR, DAVID C.	3,173,792
DAYA, JENA	3,181,779	DIGITAL SEAT MEDIA, INC.	3,173,109	DUFRESNE, ROBERT	3,172,560
DAYAL, ADITYA	3,173,471	DIGITS FINANCIAL, INC.	3,181,778	DUFRESNE, XAVIER	3,172,560
DAYAL, ADITYA	3,173,667	DILDA, PIERRE	3,173,112	DUGUAY, FELIX-OLIVIER	3,173,169
DAYAWANSA, SAMANTHA	3,181,331	DIMEQ AS	3,173,185	DUGUID, ROBERT J.	3,181,782
DE BECDELIEVRE, THIBAUT	3,173,182	DIMMICK, BARRY	3,173,499	DUMAUTHIOZ, NINA	3,173,391
DE JUAN, EUGENE, JR.	3,181,412	DIMOPOULOS, BILL	3,173,412	DUMELIE, NICOLAS	3,173,693
DE LEON-TABALDO, AIMEE		DIOH, WALY	3,173,112	DUNCAN, ANDREW JAY	3,181,547
ROSE	3,181,418	DISANTO, ANTHONY	3,173,198	DUNCIA, JOHN V.	3,167,753
DE SEQUERA, XAVIER	3,173,186	DISRUPTIVE PHARMA AB	3,181,631	DUNSETH, ERIK	3,173,197
DE VRIES, DAVID	3,181,594	DITTGEN, JAN	3,181,349	DUPLESSIS, MARTIN	3,173,629
DEAN, EMMA JANE	3,181,382	DIVINE, ROBERT	3,173,137	DURIEZ, ALBAN	3,173,683
DECARPENTERIE, THOMAS	3,173,693	DIVITA, GILLES	3,181,170	DUSSERE, ADRIEN	3,173,670
DECKHUT, CHARLOTTE	3,181,676	DIX, MARCEL	3,173,315	DUTILLEUL, THOMAS	3,181,575
DECOY THERAPEUTICS, INC.	3,173,121	DJUVE, HEGGEBO JORGEN	3,173,781	DUTTA, SUSHANT	3,173,735
DEFILIPPIS, JAMES M.	3,181,332	DOERBECK, TILL	3,181,353	DUVAL, RAPHAEL	3,173,718
DEFOSSEZ, HENRI	3,181,549	DOLENTE, COSIMO	3,173,629	DYKSTRA, ANDREW	3,173,706
DEGAONKAR, VIRAJ VINAY	3,165,187	DOLLIVE, SERENA NICOLE	3,173,207	DYNO NOBEL INC.	3,173,659
DEGRADO, WILLIAM F.	3,181,786	DOLMETSCH, RICHARD		EAGAN, THOMAS, JR.	3,173,271
DEKA PRODUCTS LIMITED		CARL ELCIARIO	3,181,961	EATON INTELLIGENT POWER	
PARTNERSHIP	3,173,465	DOMANSKI, DOMINIK	3,173,643	LIMITED	3,173,657
DEL BEL, MATTHEW L	3,181,415	DOMINGUEZ MADEIRA,		EATON, JESSE	3,181,389
DEL SORDO, EMMANUEL	3,181,957	SALVADOR	3,181,576	EBENS, JR., ALLEN JAMES	3,181,197
DELABASSEZ, SYLVIE	3,173,718	DONALD, IAN	3,173,502	EBERHARD KARLS	
DELPANNO, PIERO	3,181,653	DONALDSON, JAMES A.	3,173,578	UNIVERSITAT TUBINGEN	3,173,151
DEMATIC GMBH	3,181,185	DONATE, FELIPE A.	3,173,492	ECKERT, LAURENT	3,173,173
DEMATIC GMBH	3,181,188	DONEY, GEORGE	3,173,084	ECOLE NATIONALE	
DEMATIC GMBH	3,181,190	DONG, CHENGGUO	3,173,761	SUPERIEURE DE CHIMIE	
DENNER, KATHERINE		DONG, HANQING	3,181,782	DE MONTPELLIER	3,091,457
VIRGINIA	3,173,116	DONG, MING	3,181,597	EDGAR, SOPHIE	3,181,597
DEPOOT, KAREL JOZEF		DONG, MING	3,181,602	EDGAR, SOPHIE	3,181,602
MARIA	3,173,757	DONG-A ST CO., LTD	3,181,045	EDMONDS, ARI	3,173,184
		DONNAT, LUDOVIC	3,173,693	EDVARSDEN, ROLF BRUDVIK	3,173,806

Index of PCT Applications Entering the National Phase

EDWARDS LIFESCIENCES CORPORATION	3,181,777	ESMOKING INSTITUTE SP. Z O.O.	3,173,386	FINOMORE, VICTOR	3,173,456
EDWARDSON, ANDREW	3,181,648	ESMOKING INSTITUTE SP. Z O.O.	3,173,390	FIORENZA, SALVATORE	3,173,210
EGGERS, FREDERICK HENRY	3,173,680	ESPINOSA, THOMAS M.	3,173,717	FISCHER, BENJAMIN	3,173,486
EGGLETON, BENJAMIN JOHN	3,181,380	EVANS, CHRISTOPHER	3,181,351	FISCHER, ERIC S.	3,173,777
EID, FATMAELZAHRAA SOBHY ABDELMOUTY	3,181,623	EVANS, MARCUS PAUL	3,181,358	FISCHER, ERIC S.	3,173,819
EIFHYTEC	3,173,293	EVANS, WILLIAM PAUL	3,181,358	FISSET, JACOB	3,173,716
EINSLA, MELINDA L.	3,173,728	EVERS, ANDREAS	3,173,517	FISHER & PAYKEL HEALTHCARE LIMITED	3,173,212
EIRGEN PHARMA LTD.	3,181,945	EVERTS, JORDI	3,181,626	FISHER & PAYKEL HEALTHCARE LIMITED	3,173,220
EKIZOGLU, SOFIA	3,181,765	EXA HEALTH, INC.	3,173,637	FISHILEVICH, ELANE	3,181,198
EKMAN, JAAKKO	3,173,274	EXCIR WORKS CORP.	3,173,401	FISHKIN, NATHAN	3,173,118
EL KHOURY, VICTORIA	3,181,609	EXCIR WORKS CORP.	3,173,769	FITZGERALD, MARK E.	3,173,629
EL ZOGHBI, GASER	3,181,549	EXPENSIFY, INC.	3,173,061	FLAGSHIP PIONEERING INNOVATIONS VI, LLC.	3,182,026
ELDI, PREETHI	3,173,795	EXXERGY GMBH	3,181,932	FLAGSHIP PIONEERING, INC.	3,173,399
ELECTRIC POWER RESEARCH INSTITUTE, INC.	3,181,575	EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY	3,173,653	FLAMEL IRELAND LIMITED	3,173,256
ELI LILLY AND COMPANY	3,173,162	EYECOOOL THERAPEUTICS, INC.	3,173,472	FLANNERY, PATRICK S.	3,173,193
ELIAZ THERAPEUTICS INC	3,173,597	F. HOFFMAN-LA ROCHE AG	3,181,364	FLECK, MARTIN THOMAS	3,181,350
ELIAZ, ISAAC	3,173,597	F. HOFFMANN-LA ROCHE AG	3,165,187	FLEXLINK AB	3,173,445
ELLING, ULRICH	3,173,189	F. HOFFMANN-LA ROCHE AG	3,173,629	FLINK, JOHAN	3,173,087
ELLIS, ANDREW MICHAEL	3,173,153	F. HOFFMANN-LA ROCHE AG	3,181,790	FLITER, KRISTINE LYNN	3,173,757
ELLIS, LEAH	3,181,593	FACCIOLI, PIETRO	3,173,357	FLORIAN, PETER	3,173,330
ELLSWORTH, JASON ROBERT	3,181,195	FACE INTERNATIONAL CORPORATION	3,173,704	FLOWERVE MANAGEMENT COMPANY	3,182,007
ELLSWORTH, JILL LYNN	3,181,195	FAGERBERG, JONAS	3,181,631	FLUTSCH, ANDREAS	3,181,406
ELSIDDIG, REEM ELAMEIN	3,181,945	FAGERLAND, INGVAR	3,173,772	FLYNN, BRIGID	3,173,215
ELVIA PRINTED CIRCUIT BOARDS	3,173,655	FAKHOURI, YOUNAN	3,173,675	FMC CORPORATION	3,181,219
ELYSIS LIMITED PARTNERSHIP	3,173,283	FALCONE, ERIC	3,173,631	FMC TECHNOLOGIES, INC.	3,173,237
ELZEIN, ELFATIH	3,181,538	FALK, THURMAN, RUSSELL	3,181,336	FONDAZIONE TELETHON	3,173,357
EMBRACE MEDICAL LTD.	3,182,025	FALLON, GARY	3,173,531	FORONCEWICZ, BARTOSZ	3,173,643
EMERSON, RYAN	3,173,351	FAN, LIXUE	3,173,804	FORS, JOHN	3,173,283
EMI, TOMOHIRO	3,173,321	FAN, ZHAOYANG	3,181,571	FORSSBLAD, MARCUS	3,181,360
ENANTA PHARMACEUTICALS, INC.	3,173,333	FANTAPPIE, GIANCARLO	3,181,536	FORT, MIGDALIA	3,173,452
ENANTA PHARMACEUTICALS, INC.	3,173,354	FARO SERTAGE, ISMAEL	3,173,081	FORTIN, MICHAEL	3,173,206
ENCELLIN, INC.	3,173,482	FAROKHI, SOODEH	3,173,169	FORTNEY, KRISTEN PATRICIA	3,181,403
ENDO, KOJI	3,181,008	FARRELL, ROBERT P.	3,181,189	FOSSAT, YAN	3,173,192
ENEDIS	3,181,957	FAUNCE, JAMES A.	3,173,665	FOURIE, ANNE M.	3,181,418
ENEKABOR, EHNOMEN CHRISTINE	3,181,916	FELDMANN, JONATHAN P.	3,173,190	FOURNIER, ROBERT S.	3,173,242
ENGINE BIOSCIENCES PTE. LTD.	3,173,799	FELDSCHUH, JONATHAN	3,181,414	FOURNIER, YOHAN	3,181,800
ENGLAND, PAMELA M.	3,181,165	FENG, SHU	3,173,519	FOURNIER, YOHAN	3,181,801
ENPRO SUBSEA LIMITED	3,173,502	FENG, SHU	3,173,587	FOWLER, CAMERON	3,173,109
ENSAN, DEEBA	3,181,922	FENG, SHULU	3,173,569	FOWLER, JONAS	3,173,124
ENSLEY, EMILY	3,181,774	FEOLA, SARA	3,173,171	FOX, CHRISTOPHER BRADFORD	3,173,408
ERAK, MILOS	3,181,368	FEPOD OY LTD	3,181,347	FOX, JASON	3,173,271
ERAK, MILOS	3,181,635	FERGUSON, ANDREW	3,173,793	FP BUSINESS INVEST	3,181,925
ERFANI, MOSTAFA	3,173,169	FERRANTE, SIMONA	3,173,157	FRAHMANN, ARNO	3,173,117
ERICKSON, RONALD	3,181,568	FERRERA, MANUEL ALLEN REVEZ	3,181,178	FRAMATOME GMBH	3,173,183
ERICKSON, STEPHEN	3,181,416	FERREIRA, MANUEL ALLEN REVEZ	3,181,348	FRANK, MARKUS H.	3,181,591
ERICKSON, STEPHEN P.	3,173,686	FERRERA, MANUEL ALLEN REVEZ	3,181,543	FRANK, SPENCER	3,181,181
ERSKINE, JENNIFER ANN JOE	3,181,284	FERRONE, JASON	3,173,506	FRED HUTCHINSON CANCER CENTER	3,173,205
ESENLIK, SEMIH	3,173,179	FERTIN PHARMA A/S	3,173,082	FRED HUTCHINSON CANCER CENTER	3,173,210
ESFANDIARY, REZA	3,181,765	FETTER, JACOB	3,173,446	FRED HUTCHINSON CANCER CENTER	3,173,213
ESMOKING INSTITUTE SP. Z O.O.	3,173,384	FETTES, ALEC	3,181,364	FRED HUTCHINSON CANCER CENTER	3,181,609
		FILION, MARIO	3,173,786	FREDRICK, RANDALL	3,181,568
		FILIPE, CARLOS	3,173,740	FREENOME HOLDINGS, INC.	3,181,389
		FILTEAU, MARTIN	3,173,586	FREIER, SUSAN M.	3,181,546
		FINE, JORDAN RAY	3,181,787		
		FINLAYSON, WAYNE	3,173,507		

Index des demandes PCT entrant en phase nationale

FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH	3,181,780	GENOMATICA, INC.	3,173,509	GOTO, MASAOKI	3,181,045
FRESENIUS MEDICAL CARE HOLDINGS, INC.	3,181,780	GENT, DAVID	3,181,387	GOTTERBARM, ACHIM	3,173,887
FRIPP, MICHAEL LINLEY	3,181,366	GENZYME CORPORATION	3,173,325	GOTTLIEB, CARL	3,173,240
FROHWITTER, BERNHARD	3,181,652	GENZYME CORPORATION	3,173,330	GOU, QINGQIANG	3,181,337
FROUTAN, PAUL	3,173,614	GEOFFROY, SEBASTIEN	3,173,691	GOULD, SAMUEL A.	3,173,765
FU, JIE	3,181,337	GEORGE, SUBIN MAC	3,173,455	GOVARI, ASSAF	3,181,204
FUELCELL ENERGY, INC.	3,173,241	GEORGIAMUNE LLC	3,182,012	GOVONI, STEVEN C.	3,173,174
FUELCELL ENERGY, INC.	3,173,242	GERASYUTO, ALEKSEY I.	3,173,569	GOYAL, BINDU	3,181,922
FUINA, MICHAEL JAMES	3,181,467	GERDER, HENNING	3,173,467	GRAHAM, STEFFEN	3,182,023
FUJIFILM CORPORATION	3,173,715	GEYEN, DAREN	3,181,361	GRANINGER, MICHAEL	3,173,709
FUJIFILM TOYAMA CHEMICAL CO., LTD.	3,173,148	GHANAKOTA, PHANI	3,181,537	GRANT, ALEXANDER JAMES	3,173,764
FURMANSKI, BRIAN	3,173,768	GHATAK, SUBHADIP	3,181,407	GRANT, TYLER	3,173,792
FURTINGER, DORIS HELENE	3,181,780	GHD, INC.	3,173,430	GRASSOT, JULIEN	3,173,256
FUSY, BASTIEN	3,173,445	GHONGE, TANMAY	3,173,685	GRAY, JOHN DIXON	3,173,208
FYFE, JAKE TYLER	3,181,781	GIANNINI, SILVIA	3,173,513	GRAY, NATHANAEL S.	3,173,679
G1 THERAPEUTICS, INC.	3,173,678	GIL, JOSE	3,181,416	GRAY, NATHANAEL S.	3,173,777
GABEN, FABIEN	3,173,247	GILEAD SCIENCES, INC.	3,181,922	GRAY, NATHANAEL S.	3,173,819
GABEN, FABIEN	3,173,248	GILLESPIE, BRAD	3,181,563	GRAYBUCK, LUCAS T.	3,173,609
GAGNON, MICHAEL D.	3,173,757	GILLESPIE, DAVID T.	3,173,484	GREEN, LUKE	3,181,790
GAIBLER, HARALD	3,173,887	GILLET, GEOFFREY		GREEN, MARJORIE C.	3,182,018
GALLEGO, REBECCA ANNE	3,181,415	GORDON	3,181,284	GREENCAP SOLUTIONS AS	3,173,632
GALLO COVARRUBIAS, RODRIGO	3,181,921	GILLIS, TIMOTHY F.	3,173,198	GREENECONO UG	3,180,773
GAMBETTA, JAY	3,173,081	GINGRAS, JACINTHE	3,173,207	GREENWOOD, JEREMY R.	3,181,537
GAMSBY, MARTIN	3,173,716	GITLIN, LEONID	3,173,793	GREFFEX, INC.	3,173,711
GAN, SIOK WAN	3,173,519	GITLIN, LEONID	3,173,803	GREFFEX, INC.	3,173,713
GANSS, CHRISTOPH	3,181,591	GITLITZ, BARBARA JENNIFER	3,165,187	GREFFEX, INC.	3,173,714
GAO, HAN	3,173,179	GLANDORF, WILLIAM MICHAEL	3,181,217	GREINWALD, ROLAND	3,173,812
GAO, PENG	3,173,475	GLAXOSMITHKLINE BIOLOGICALS SA	3,181,627	GRIFFIN, BENJAMIN MATTHEW	3,173,509
GAO, XURI	3,173,333	GLAXOSMITHKLINE INTELLECTUAL PROPERTY		GRIFFITHS, DAVID	3,181,544
GAO, YANG	3,181,335	GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED	3,173,172	GRILLI, ESTER	3,181,951
GAO, ZEJUN	3,181,333	GLINER, VADIM	3,181,204	GRITSTONE BIO, INC.	3,173,793
GARAFFA, NICOLE K.	3,181,776	GLOBAL BLOOD THERAPEUTICS, INC.	3,181,577	GRITSTONE BIO, INC.	3,173,803
GARCIA, EDUARDO	3,173,484	GLOBAL BLOOD THERAPEUTICS, INC.	3,181,583	GROSSO, JOHN A.	3,181,782
GARCIN, THOMAS	3,173,707	GLOIRE, GEOFFREY	3,181,368	GROTH, ANDREW FREDERIC	3,181,210
GARDNER, DANIEL S.	3,167,753	GLYMPSE BIO, INC.	3,181,048	GROTH, ANDREW FREDERIC	3,181,212
GARRARD, CHARLEY NICOLE	3,173,739	GLYMPSE BIO, INC.	3,181,049	GROTH, ANDREW FREDERIC	3,181,217
GARRUTO, JOHN A.	3,173,279	GLYMPSE BIO, INC.	3,181,164	GROTH, ANDREW FREDERIC	3,181,344
GARZA, VICTORIA	3,173,629	GODAWAT, RAHUL	3,173,820	GROTH, ANDREW FREDERIC	3,181,345
GASPARINI, FABRIZIO	3,181,961	GOLDBERG, STEVEN	3,181,418	GROTH, ANDREW FREDERIC	3,181,915
GASPARYAN, HRIPSIME	3,173,479	GOLDBERG, STEVEN	3,181,676	GROUPE ELUCIDIA INC.	3,173,206
GASPARYAN, HRIPSIME	3,173,483	GOLDBERG, STEVEN	3,181,793	GRUBER, PETER	3,173,332
GASPARYAN, HRIPSIME	3,173,485	GOMEZ ANDRADE, ALVARO	3,181,334	GRULKOWSKI, AARON	3,181,789
GATZWEILER, ELMAR	3,181,349	GOMEZ-MANCILLA, BALTAZAR	3,181,961	GRUM, MARK	3,173,675
GAUDIN, CHRISTOPHE	3,181,943	GONG, YUPENG	3,181,914	GRUNERUD, WYATT	3,181,789
GAUDREAU, LOUIS	3,181,928	GONZALEZ GRANADOS, SERGIO	3,173,077	GRUNWALD, ALYSSA LOUISE	3,173,462
GAURAV, SHARAD	3,181,603	GOOD, ANDREW CHARLES	3,173,629	GU, JIAMIN	3,173,095
GAVADE, PRAVIN BHAGAVANT K.	3,173,813	GOOD, ANDREW CHARLES	3,173,658	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS COPR., LTD: OPPO	3,173,434
GE PRECISION HEALTHCARE LLC	3,173,675	GOOD, DAVID	3,173,757	GUANGZHOU KANGRUI BIOLOGICAL PHARMACEUTICAL TECHNOLOGY CO., LTD.	3,173,676
GECKO ROBOTICS, INC.	3,173,116	GOODARZANIA, SHAHIN	3,181,387	GUERIN, FRANCIS	3,173,716
GEDEON, KAMIL S.	3,181,352	GOODSITT, JEREMY	3,173,621	GUICHARD, MARIE-JULIE	3,181,943
GEER, MATTHEW W.	3,181,781	GOODWIN, E. RAY	3,181,603	GUICHARD, PIERRE	3,173,168
GEISER, ACHIM	3,181,364	GORANSSON, LEIF	3,173,436	GUIDRY, KIRK P.	3,181,194
GELINAS, MARTINE	3,173,368	GORER, ALEXANDER	3,181,172	GUILLEMET, FREDERIC	3,181,925
GELLYCLE CO., LTD.	3,182,001	GORMISKY, PAUL E.	3,167,753	GUIMARAES, MATHEUS ANTUNES	3,181,926
GENTECH, INC.	3,182,018	GORSHKOV, ALEXANDER	3,173,662	GULLIVER, JIM ANDREW	3,173,735
GENERATION BIO CO.	3,173,126			GUO, YANG	3,173,631

Index of PCT Applications Entering the National Phase

GUO, YIPIN	3,173,424	HAWKINS, PAUL MATTHEW	3,182,007	HOANG, TIEN	3,165,187
GUO, YUNLONG	3,173,475	HAY, BRUCE A.	3,173,654	HOBERT, TOBIAS	3,180,773
GUO, ZHEN	3,181,365	HAY, HENRY	3,181,409	HODGSON, MATTHEW	3,173,227
GUO, ZIFANG	3,181,337	HAYBALL, JOHN D.	3,173,795	HODGSON, MATTHEW	3,173,229
GUPTA, ANURAG	3,173,667	HAYDEN, CHRISTOPHER M.	3,173,343	HODGSON, MATTHEW	3,173,233
GUPTA, ARCHANA	3,173,074	HCW BIOLOGICS, INC.	3,181,417	HODGSON, MATTHEW	3,173,234
GUPTA, ARCHANA	3,173,075	HE, JINLIANG	3,181,482	HODGSON, MATTHEW	3,173,235
GUPTA, ASHWANI	3,171,363	HE, JINLIANG	3,181,555	HODGSON, MATTHEW	3,173,238
GUPTA, NACHI	3,173,768	HE, MINGYING	3,181,415	HODGSON, MATTHEW	3,173,824
GUPTA, PANKAJ	3,181,776	HE, MINSHENG	3,173,658	HOEPKER, ALEXANDER	
GUPTA, PRIYANKA	3,181,776	HE, XIAOLIN	3,173,095	CHRIS	3,173,419
GURSKI, LAUREN	3,181,178	HE, XUELIAN	3,181,413	HOFFMANN, MICHAEL	
GURSKI, LAUREN	3,181,348	HE, YONG	3,173,333	GERHARD	3,181,349
GUTIERREZ MARTINEZ, PAULA	3,181,340	HE, YUHUA	3,173,454	HOFMANN, STEFAN	3,173,383
GUTLEIN, MARTIN	3,181,930	HE, YUNDI	3,173,140	HOGAN, MICHAEL EDWARD	3,173,680
GUTTMAN, MITCHELL	3,173,399	HE, ZHIGANG	3,181,413	HOGAN, ROBERT JEFF	3,173,187
HAACK, TORSTEN	3,173,517	HE, ZHIREN	3,173,645	HOKE, STEVEN HAMILTON, II	3,181,175
HAAP, WOLFGANG	3,181,790	HEARTLAND AGRICULTURE, LLC	3,173,378	HOLFORD, STEVEN	3,173,496
HAAVISTO, OSKAR	3,173,671	HEAT AND CONTROL, INC.	3,173,077	HOLLAAR, GERRIT JAN	3,173,620
HAGA, HISATO	3,173,099	HEIKENWALDER, MATHIAS	3,173,613	HOLLENDER, MARTIN	3,173,270
HAJDIN, CHRISTINE		HEISKANEN, VILLE	3,173,592	HOLLENDER, MARTIN	3,173,398
ELIZABETH	3,182,026	HELLA GUTMANN		HOLSCHUH, RICHARD	
HAJI ABOLHASSANI, AMIR ABBAS	3,173,169	SOLUTIONS GMBH	3,181,930	STEPHEN	3,173,476
HALE, JACK JOSEPH	3,173,417	HELSEN, CHRISTOPHER W.	3,173,810	HOM, TIMOTHY	3,173,761
HALEY, DAVID VICTOR		HENDERSON, JAMES A.	3,173,658	HOMBURG, MATTHEW	
LAWRIE	3,173,764	HENKEL, THOMAS	3,181,620	MAURICE	3,173,479
HALL, JAMES C.	3,173,491	HENN, CHRISTIAN	3,181,372	HOMBURG, MATTHEW	
HALLER, DIRK	3,173,613	HENNINOT, ANTOINE		MAURICE	3,173,483
HALLIBURTON ENERGY SERVICES, INC.	3,173,683	CHARLES OLIVIER	3,173,129	HOMEOSTASIS	
HALLIBURTON ENERGY SERVICES, INC.	3,181,366	HENRIKSSON, ERIKA	3,173,114	THERAPEUTICS, LIMITED	3,173,641
HALLIBURTON ENERGY SERVICES, INC.	3,181,370	HERRMANN, JAKOB	3,181,353	HOMOLOGY MEDICINES, INC.	3,173,207
HALTLI, BRADLEY ARNOLD	3,173,462	HERSH, BENJAMIN V.	3,173,465	HONEYCUTT, AARON P.	3,181,419
HAMBLETON, DANIEL	3,173,139	HERZBERG, NUFAR	3,173,792	HONG, SEUNGWOOK	3,173,460
HAMES, KAZANNA CALAIS	3,181,181	HESAMPOUR, MEHRDAD	3,173,186	HONG, SUE-JEAN	3,173,803
HAMILTON, ANTHONY	3,181,563	HESS, CURTIS	3,173,607	HOPPE, CHRISTOPHER S.	3,173,765
HAMILTON, SAMUEL	3,181,919	HESSAM, AHMED ABDULLAH	3,181,343	HOROWITZ, JOSHUA M.	3,173,331
HAMPSHIRE, KENNETH E.	3,181,787	HETT, SUNITA R.	3,173,513	HOSPICES CIVILS DE LYON	3,173,822
HAN, FEI	3,181,776	HEWINGS, DAVID STEPHEN	3,173,629	HOVDE, GREGORY	3,173,424
HAN, PEI	3,181,571	HEWITT, CARL	3,173,464	HOWARD, MATTHEW	3,173,529
HANADA, SHIGEHISA	3,181,042	HEWITT, CARL	3,173,469	HOWELL, GLADE H.	3,181,532
HANDLEY, TYLER J.	3,173,739	HEXAMER THERAPEUTICS, INC.	3,173,307	HOWLEY, PAUL	3,173,795
HANMI PHARM. CO., LTD.	3,173,353	HIBNER, BARBARA L.	3,173,121	HOYING, JUDY LYNN	3,181,916
HANNUKSELA, MISKA		HICKEY, EUGENE R.	3,173,569	HSIEH, HAN-YI	3,173,720
MATIAS	3,173,460	HICKEY, MAGALI	3,173,792	HU, BILIANG	3,173,490
HARDING, CAYLEY	3,181,381	HIGUCHI, AKIHIRO	3,181,656	HU, JHE WEI	3,173,720
HAREL, ADRIAN	3,173,671	HIHOUD, MAJID	3,173,312	HU, JUN	3,181,482
HARITON, CLAUDE	3,173,341	HILL, ALISON	3,173,774	HU, JUN	3,181,555
HARRIS, KEITH	3,173,330	HILTI		HU, YE	3,181,328
HARRISON, STEPHEN	3,173,799	AKTIENGESELLSCHAFT	3,173,196	HUA MEDICINE (SHANGHAI) LTD.	3,181,882
HARRY, BRIAN L.	3,181,788	HILTI		HUANG, CHANHUI	3,173,720
HARVEY, ADAM	3,181,389	AKTIENGESELLSCHAFT	3,173,275	HUANG, JASON H.	3,181,331
HARVEY, BENJAMIN JAMES	3,174,292	HILTI		HUANG, JIARAO	3,173,607
HARVEY, CHRISTOPHER	3,173,134	AKTIENGESELLSCHAFT	3,173,280	HUANG, LIANG	3,181,214
HASENPOUTH, DAN	3,181,644	HILTI		HUANG, LONGWU	3,181,473
HASICK, NICOLE JANE	3,181,184	AKTIENGESELLSCHAFT	3,173,335	HUANG, PING-YEN	3,173,603
HASKELL, III, ROYAL J.	3,181,782	HILTI		HUANG, SHENGJIAN	3,181,558
HASKELL, III, ROYAL J.	3,173,113	AKTIENGESELLSCHAFT	3,173,342	HUAWEI TECHNOLOGIES CO., LTD.	3,173,179
HASNAIN, SOMJI	3,173,444	HIRAIWA, MORGAN JAMES	3,173,707	HUBER SOIL SOLUTION GMBH	3,181,402
HAUPT, STEPHAN	3,181,919	HIRSEKORN, KURT F.	3,173,484	HUBER, FRANZ-FERDINAND	3,181,402
HAVENS, CALEN		HO, ANDREW JARAI	3,181,403	HUBERTH, DANIEL	3,181,185
		HO, SHU WEN SAMANTHA	3,173,587		
		HO, STEPHEN	3,181,922		

Index des demandes PCT entrant en phase nationale

HUDDLESTON, JAMISON PARKER	3,173,509	INSTYTUT BIOCHEMII I BIOFIZYKI PAN	3,173,643	JANSSEN PHARMACEUTICA NV	3,181,676
HUEBNER, ROBERT	3,173,134	INTELLIA THERAPEUTICS, INC.	3,181,340	JANSSEN PHARMACEUTICA NV	3,181,793
HUGHES, ALICE	3,173,493	INTERNATIONAL BUSINESS MACHINES CORPORATION	3,173,078	JANSSEN PHARMACEUTICALS, INC.	3,181,406
HUGHES, ALICE	3,173,494	INTERNATIONAL BUSINESS MACHINES CORPORATION	3,173,081	JARTE, PETTER	3,181,360
HUGHES, FOREST CANYON	3,173,667	INTERNATIONAL BUSINESS MACHINES CORPORATION	3,173,088	JAUREGUI, JUAN ESTEBAN PAZ	3,173,238
HUGHES, STEVE	3,173,092	INTERNATIONAL BUSINESS MACHINES CORPORATION	3,173,093	JAUREGUI, JUAN ESTEBAN PAZ	3,173,227
HUGHES, STEVE	3,173,222	INTRINSIC MEDICINE, INC.	3,173,506	JAUREGUI, JUAN ESTEBAN PAZ	3,173,229
HUGHES, STEVE	3,173,364	INUBUSHI, YASUTAKA	3,181,661	JAUREGUI, JUAN ESTEBAN PAZ	3,173,230
HUI, HON C.	3,181,922	IONIS PHARMACEUTICALS, INC.	3,181,546	JAUREGUI, JUAN ESTEBAN PAZ	3,173,231
HUIZINGA, ROBERT B.	3,181,952	IORDACHE, SANDU	3,181,664	JAUREGUI, JUAN ESTEBAN PAZ	3,173,233
HULBERT, DANIEL	3,181,913	IP, PHILBERT	3,173,810	JAUREGUI, JUAN ESTEBAN PAZ	3,173,234
HUMA THERAPEUTICS LIMITED	3,181,208	IRVIN, THOMAS COMBS	3,173,569	JAUREGUI, JUAN ESTEBAN PAZ	3,173,235
HUMBERT, MICHAEL	3,173,131	IRVING, MICHAEL	3,173,442	JEANNE, EDGARD	3,181,376
HUNGERBALL IP LIMITED	3,181,664	ISORG	3,181,929	JEEVA, FIONA	3,173,739
HUNT, JEFFREY H.	3,181,914	ISTITUTO EUROPEO DI ONCOLOGIA S.R.L.	3,173,152	JEFFERIES, WILFRED	3,173,073
HUNTER, GLENN M.	3,181,330	ISTITUTO NAZIONALE DI FISICA NUCLEARE	3,173,357	JEHOULET, PHILIPPE RAYMOND	3,181,627
HUNZIKER, DANIEL	3,173,629	ITESCU, SILVIU	3,173,216	JELLINGSOE, MADS	3,173,163
HUR, SIYUN	3,173,675	ITT MANUFACTURING ENTERPRISES LLC	3,181,346	JEON, JOUHYUN	3,173,192
HURLEY, BRIAN MICHAEL	3,181,918	IVARSON, CAROLINE	3,181,631	JERKOVIC, ANTE	3,173,184
HUSS, DAVID JEFFREY	3,173,450	IVASHKO, ANNA C.	3,173,653	JERSEY, STEVEN T.	3,181,536
HUTTON, HOWARD DAVID, III	3,181,421	IVERSEN, JACQUELINE	3,181,200	JFE STEEL CORPORATION	3,173,101
HUTTON, HOWARD DAVID, III	3,181,918	JAACKOLA, ANU	3,173,274	JI, HENRY HONGJUN	3,173,611
HYDRO DYNAMICS, INC.	3,181,408	JACKSON, KATRINA L.	3,165,309	JI, WENZHI	3,173,819
HYUN, SANG-MIN	3,181,045	JACKSON, KATRINA L.	3,173,629	JI, XIANG	3,173,095
I-TEN	3,173,247	JACOBSON, MATTHEW P.	3,181,165	JIA, HAIQUN	3,173,176
I-TEN	3,173,248	JACOBY, BERND	3,181,196	JIANG, CHUNHUA	3,173,804
I4F LICENSING NV	3,173,108	JACOBY, BERND	3,181,199	JIANG, JIAN	3,181,365
ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	3,182,020	JAEGER, BEATE R.	3,181,556	JIANG, JIE	3,173,777
IERADI, GIUSEPPE	3,181,468	JAFARI, MARYAM	3,173,017	JIANG, LAN	3,173,761
IFERGAN, FREDERIC	3,181,954	JAGANNATHAN, BHARADWAJ	3,173,706	JIANG, SHUIBO	3,173,454
IFERGAN, JOANNA	3,181,954	JAGER, CASEY KEITH	3,181,782	JIANG, YUQIAN	3,173,423
IGAWA, TOMOYUKI	3,173,587	JAHANSHAHI-ANBUHI, SANA	3,173,740	JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD.	3,173,461
IGM BIOSCIENCES, INC.	3,173,414	JAITZ, LEONHARD	3,181,364	JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD.	3,173,470
ILAN, OHAD	3,173,304	JAKOBCZYK, ADRIAN	3,173,384	JING, JIE	3,173,792
ILLUMINA INC.	3,173,685	JAKOBCZYK, ADRIAN	3,173,386	JING, RAN	3,173,780
ILTCHEV, THEODORE	3,173,403	JAKOBCZYK, ADRIAN	3,173,390	JMH INNOVATIVE SOLUTIONS, LLC	3,173,700
IMBA - INSTITUT FUER MOLEKULARE BIOTECHNOLOGIE GMBH	3,173,189	JAKOBI, HARALD	3,181,349	JO, HYUNIL	3,181,786
IMCYSE SA	3,181,368	JALAIE, MEHRAN	3,181,415	JOBEILI, LARA MARWA	3,173,560
IMCYSE SA	3,181,635	JAN, SEBASTIEN BERNARD MARIE	3,173,646	JODOIN, RAYMOND HENRY	3,174,292
IMIG, GREGORY ALAN	3,173,217	JANG, SUN-WOO	3,181,045	JOHNS, JOCELYN	3,173,184
IMMUNOCORE LIMITED	3,181,362	JANKA, DENNIS	3,173,270	JOHNSON & JOHNSON SURGICAL VISION, INC.	3,181,204
INDIE TECH LIMITED	3,173,426	JANKA, DENNIS	3,173,315	JOHNSON & JOHNSON VISION CARE, INC.	3,181,796
INGRASSIA, MEREDITH	3,173,652	JANKA, DENNIS	3,173,398	JOHNSON, AARON	3,181,173
INKBOX INK INC.	3,173,739	JANKA, DENNIS	3,173,428	JOHNSON, DOUGLAS	3,181,560
INKBOX INK INC.	3,173,794	JANSSEN BIOTECH, INC.	3,181,949	JOHNSON, ERIC SCOTT	3,181,918
INMAN, MICHAEL C.	3,173,441	JANSSEN PHARMACEUTICA NV	3,181,418	JOHNSON, SAVANNAH	3,173,493
INOUE, KENSUKE	3,173,099				
INOYAMA, DAIGO	3,181,604				
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE	3,091,457				
INSTITUT PASTEUR	3,173,158				
INSTITUT POLYTECHNIQUE DE GRENOBLE	3,173,449				

Index of PCT Applications Entering the National Phase

JOHNSON, SAVANNAH	3,173,494	KARUMANCHI, S. ANANTH	3,181,533	KIMBERLY-CLARK	
JOHNSTON, JAY	3,181,385	KATCHMAN, BENJAMIN		WORLDWIDE, INC.	3,173,476
JOLLY, STEPHEN	3,173,241	ALAN	3,173,680	KIMMIG, FABIAN	3,181,625
JOLY, LILIAN	3,173,693	KATHAM, SRINIVASA	3,181,917	KIMURA CHEMICAL PLANTS	
JONES, BENJAMIN T.	3,173,765	KATMAI TECH INC.	3,181,367	CO., LTD.	3,181,008
JONES, GREGORY T.	3,181,916	KATONICA, JASON G.	3,173,093	KINCAID, JOHN	3,173,722
JOOSS, KARIN	3,173,793	KATTUBOINA, VENKATA A.	3,181,782	KINEMATICSOUP	
JOOSS, KARIN	3,173,803	KAUSHAL, ADITYA MOHAN	3,181,782	TECHNOLOGIES INC.	3,173,424
JORDAN, NANCY TOMMYE	3,181,414	KAWA, TATSUYA	3,173,519	KING, SAMUEL	3,173,184
JORG, DAVID J.	3,181,780	KAWAMURA, REI	3,173,493	KINI, PRASHANT VASANT	3,181,551
JOSHI, ANUP	3,181,547	KAWAMURA, REI	3,173,494	KINSA INC.	3,181,608
JOSHI, PALLAVI	3,173,418	KAWASAKI, TAKAFUMI	3,181,656	KIORA PHARMACEUTICALS,	
JOUNCE THERAPEUTICS, INC.	3,173,134	KAZETO, OSAMU	3,181,661	INC.	3,173,160
JOURDE, DILLON R.	3,173,116	KDC/ONE DEVELOPMENT		KIORA PHARMACEUTICALS,	
JOY GLOBAL SURFACE		CORPORATION, INC.	3,173,349	INC.	3,173,164
MINING INC	3,173,232	KEAVENEY, JAMES	3,181,284	KIPRIJANOV, SERGEJ	3,173,391
JPMORGAN CHASE BANK,		KEDAS, CHENDRASEKHAR	3,181,917	KIRKHAM, STEVEN	3,181,199
N.A.	3,173,089	KEITH, JOHN	3,181,676	KISMET TECHNOLOGIES LLC	3,181,177
JT GODFREY, LLC	3,181,423	KEMIRA OYJ	3,173,186	KISOJI BIOTECHNOLOGY	
JUBIN, PHILIPPE F.	3,181,796	KEMIRA OYJ	3,173,274	INC.	3,171,363
JUNG, CORALIE	3,181,191	KEMPTER, DANIEL	3,181,625	KITARU INNOVATIONS INC.	3,173,478
JUNG, GUNDRAM	3,173,151	KENNEDY, SAMUEL ELLIOTT	3,181,782	KITCHEN, RYAN SCOTT	3,173,497
JUNO THERAPEUTICS, INC.	3,181,339	KENTON, NATHANIEL		KITLOWSKI, SARAH M.	3,173,441
JUNO THERAPEUTICS, INC.	3,181,399	THOMAS	3,173,333	KIYOI, TAKAO	3,173,510
JURCZYSAK, ERIC	3,173,343	KENWORTHY, GARETH		KLAHM, SEBASTIAN	3,173,409
JX NIPPON MINING &		ALAN	3,181,947	KLASSEN, HELEN MARY ANN	3,173,323
METALS CORPORATION	3,173,296	KERR, RUSSELL GREIG	3,173,462	KLEIN, AMIT	3,181,594
JX NIPPON MINING &		KERWIN, LISA DIANE	3,173,208	KLEMM, LAN	3,181,919
METALS CORPORATION	3,173,751	KESICKI, EDWARD A.	3,173,569	KLEYMAN, GENNADY	3,173,195
JX NIPPON MINING &		KESSEBOHMER HOLDING KG	3,173,165	KLEYMAN, GENNADY	3,173,221
METALS CORPORATION	3,173,753	KETELSEN STRIBERNY,		KLICK INC.	3,173,192
KADONO, YUUICHI	3,181,554	BERND	3,173,175	KLIM, GRAEME PETER	
KAITTANIS, CHARALAMBOS	3,181,198	KEUTE, JOSEPH S.	3,181,375	ARTHUR	3,173,153
KAKINUMA, CHIHAYA	3,173,715	KEYT, BRUCE	3,173,414	KLIPPEL-GIESE, ANKE	3,173,569
KAKUUCHI, AKITO	3,181,604	KHALID, NAJEEB ASHRAF	3,173,599	KLOEPPER, BENJAMIN	3,173,270
KALESHNIK, CHRISTOPHER	3,181,587	KHALID, NAQEEB	3,173,599	KLOEPPER, BENJAMIN	3,173,315
KALIA, ANUP	3,173,078	KHAN, KASHIF	3,173,421	KLOEPPER, BENJAMIN	3,173,398
KAMAL, MOHAMED	3,173,173	KHANNA, SAVITA	3,181,407	KLOEPPER, BENJAMIN	3,173,428
KAMATA, HIROYUKI	3,182,001	KHLEIF, SAMIR	3,182,012	KLUTH, MARK ANDREAS	3,181,591
KANARSKY, MAX	3,181,560	KHOKHAR, ALEEM A.	3,181,194	KM TRANSFORM LTD.	3,181,045
KANASTY, ROSEMARY	3,173,792	KHOKHLOV, PAVEL	3,181,172	KNAB, MANFRED	3,173,887
KANAZAWA, ALICE	3,173,458	KIKURA, HIROSHIGE	3,181,008	KNAUF GIPS KG	3,173,686
KANDIYALA, SRINIVASA	3,181,917	KILGORE, AUSTIN	3,173,504	KNIGHT, JENNIFER LYNN	3,173,569
KANE, CHRISTOPHER D.	3,173,172	KILIC, OZGUN	3,181,340	KNUTSON, LARA	3,181,392
KANEKAL, HEMANTH	3,181,585	KIM, EUNICE	3,181,594	KOCER, BUELENT	3,181,790
KANGASMETSA, JUSSI	3,181,794	KIM, HAE-SUN	3,181,045	KOCH, GUIDO	3,181,641
KANIA, ROBERT STEVEN	3,181,415	KIM, HYE-JU	3,173,406	KOCH, ROGER	3,181,549
KANIKANTI, VENKATA-		KIM, HYEYUN	3,173,406	KOETH, JOHANNES	3,173,161
RANGARAO	3,173,383	KIM, HYO JIN	3,173,133	KOGLIN, ALEXANDER	3,173,131
KANJOLIA, ARTI MAHENDRA		KIM, HYUN-JUNG	3,181,045	KOIWA, MASAKAZU	3,181,042
PRAKASH	3,181,340	KIM, HYUNG JOON	3,173,133	KOLAKOWSKI, GABRIELLE R.	3,173,569
KANNAN, SUJATHA	3,181,171	KIM, IN JONG	3,173,354	KOLAR, VLADIMIR	3,181,607
KANWISCHER, WILFRIED	3,173,183	KIM, JAMES	3,173,241	KOLARI, MARKO	3,173,274
KAPLAN, DANIEL DAVID	3,181,197	KIM, JI-SUN	3,173,310	KOLODIAZHNYI, ALEKSEY	
KAPUR, MRIDULA	3,173,484	KIM, KYUWAN	3,173,310	VALERIEVYCH	3,173,710
KARLAK, AARON TIMOTHY	3,181,776	KIM, MIN SOO	3,173,208	KOLON INDUSTRIES, INC.	3,173,605
KARLEMO, CAMILLA	3,181,201	KIM, RYUNG RAE	3,181,184	KOLZ, JUSTIN	3,181,789
KARLIDAG, GULBEN	3,173,227	KIM, SEON HYE	3,173,133	KOMATSU LTD.	3,181,554
KARLIDAG, GULBEN	3,173,229	KIM, SEONG MUK	3,173,406	KOMATSUBARA, KIMBERLY	
KARLIDAG, GULBEN	3,173,231	KIM, SU-JEONG	3,181,427	MAYUMI	3,165,187
KARLIDAG, GULBEN	3,173,233	KIM, YEOUN JIN	3,181,609	KONG, LIN	3,181,417
KARLIDAG, GULBEN	3,173,234	KIM, YOONA	3,181,594	KONG, XIANQI	3,173,095
KARSHAFIAN, KHACHIC		KIM, YOUNGSOO	3,173,406	KONINKLIJKE PHILIPS N.V.	3,181,605
CHRIS	3,173,282			KONZE, KYLE	3,181,604

Index des demandes PCT entrant en phase nationale

KORDASIEWICZ, HOLLY	3,181,546	L'AIR LIQUIDE SOCIETE	LEE, AHREUM	3,173,605
KORHONEN, MARKUS	3,173,274	ANONYME POUR	LEE, ANTHONY JONGHA	3,165,187
KORKUSINSKI, MAREK	3,181,928	L'ETUDE ET	LEE, FRANK WEN-CHI	3,173,603
KOS, MARCIN	3,173,384	L'EXPLOITATION DES	LEE, HEE-KYOUNG	3,173,164
KOS, MARCIN	3,173,386	PROC...	LEE, HO WAI HOWARD	3,181,227
KOS, MARCIN	3,173,390	LABOMBARD, BRIAN	LEE, JEEYUN	3,181,382
KOSKINEN, JARI	3,181,347	LABORATORY	LEE, JI HYE	3,173,133
KOSLOWSKI, NICOLAS	3,173,161	CORPORATION OF	LEE, JIN BONG	3,173,353
KOSLOWSKI, TIM	3,173,161	AMERICA HOLDINGS	LEE, JIYOON	3,173,605
KOTANKO, PETER	3,181,780	LACOUR, RONAN	LEFEBVRE, ERIC	3,173,761
KOTHAKOTA, SRINIVAS	3,173,480	LADD, ROBERT	LEFOTHERIS, KATERINA	3,173,755
KOTRA, ANAND MEHER	3,173,179	LAFONT, RENE	LEFOTHERIS, KATERINA	3,173,761
KOTRIWALA, ARZAM	3,173,270	LAHOUD, IMAD	LEGRAND AV INC.	3,181,789
KOTRIWALA, ARZAM		LAI, CATHERINE	LEHMANN, MARCUS	3,173,513
MUZAFFAR	3,173,398	LAI, ERICA	LEI, QINGXIN	3,181,175
KOTRIWALA, ARZAM		LAI, SAM	LEIN, EDWARD SEBASTIAN	3,173,609
MUZAFFAR	3,173,428	LAI, SAM	LEITOW, FYNN MARLIN	3,173,443
KOU, PENG	3,181,337	LAI, SAM	LEKSA, NINA C.	3,173,325
KOUTNIKOVA, HANA	3,173,150	LAI, SAMUEL	LELOUCH, ALEXANDRE	
KOYA, ABDUL HALEEM		LAIHIA, JARMO	GASTON MICKAEL	3,173,560
AHAMED	3,181,467	LAM, CHIA-YING KAO	LENDERS, FELIX	3,173,270
KOZLOWSKI, MARCIN	3,173,384	LAM, HEATHER CHI-YING	LENDERS, FELIX	3,173,398
KOZLOWSKI, MARCIN	3,173,386	LAM, KWOK FAN	LENDERS, FELIX	3,173,428
KOZLOWSKI, MARCIN	3,173,390	LAMBERTSON, MICHAEL C.	LEO, ANTHONY M.	3,173,241
KRAFTANLAGEN MUNCHEN		LAMBHUSASUND EHF.	LEON, ROBERT	3,173,354
GMBH	3,181,353	LAMIFLEX GROUP AB	LEONG, PENG	3,181,403
KRATA, NATALIA	3,173,643	LAN, CHUNQIANG	LESLIE, DAVID	3,173,700
KRAUCUNAS, MITCHELL T.	3,173,198	LANES, OLAV	LETTENBERGER, NEIL	
KRAUSE, TIM	3,173,215	LANG PHARMA NUTRITION,	DUSTIN	3,181,363
KREFT, GUNTER	3,173,211	INC.	LEUNG, JACKIE	3,173,410
KRILOV, GORAN	3,181,604	LANG, CHARLES	LEUNG, VINCENT HO YIN	3,173,740
KRIYA THERAPEUTICS, INC.	3,173,768	LANG, DAVID PHILLIP	LEVASSEUR, MATTHEW	
KROL, GERARD CORNELIS	3,181,367	LANGEVIN, REBECCA ANN	PAUL	3,173,497
KROON, BART	3,181,605	LANGILLE, NEIL FRED	LEVI, BOAZ P.	3,173,609
KRUGENER, SVEN	3,173,696	LANTIERI, LAURENT	LEVI, LAURA	3,173,158
KRUGER, MIKE	3,173,505	ALEXANDRE	LEVI, TAMIR S.	3,181,777
KTH PARTS INDUSTRIES, INC.	3,173,141	LANTMANNEN FUNCTIONAL	LEVISSENSE MEDICAL, INC.	3,173,271
KUDO, YUUKI	3,181,190	FOODS AB	LEWANDOSKE, MAX-	
KUENZEL, JOHANNA	3,173,230	LARIMAR THERAPEUTICS,	REINHARD	3,181,188
KUENZEL, JOHANNA	3,173,231	INC.	LEWIS, ALEXANDER	3,181,919
KUENZEL, JOHANNA	3,173,233	LARIMORE, ELIZABETH	LEXUR, LIMITED	3,173,612
KUENZEL, JOHANNA	3,173,234	LARIVIERE, REED WALKER	LG ELECTRONICS INC.	3,181,798
KUENZEL, JOHANNA	3,173,235	LASZLO, GEORGE S.	LHEUREUX, ALEX	3,181,929
KUENZEL, JOHANNA	3,173,238	LASZLO, GEORGE S.	LI, ALFRED	3,173,686
KUGLSTATTER, ANDREAS	3,181,790	LASZLO, GEORGE S.	LI, BINGYI	3,181,337
KUHN GELDROP BV	3,173,416	LATCHWAYS PLC	LI, DEBIAO	3,181,571
KUHN, BERND	3,173,629	LATIL, MATHILDE	LI, GEN	3,173,676
KULE, JOSHUA ADAM	3,181,195	LATINO, RICHARD MICHAEL	LI, HUI	3,173,761
KULLMANN, DIMITRI		LAU, CHEUK CHI	LI, JUAN	3,181,482
MICHAEL	3,173,181	LAU, JANET	LI, JUAN	3,181,555
KUMAR CM, VIJAYA	3,167,753	LAU, TE HUA	LI, LIN	3,181,598
KUMAR, CHANDU	3,173,214	LAUCHLE, JENNIFER O'HARA	LI, MIKE, TSO-PING	3,181,336
KUMAR, MANOJ	3,173,569	LAUTT, WILFRED WAYNE	LI, QI	3,181,482
KUMAR, MAYANK	3,173,637	LAWRENCE, ANDREA LEE	LI, QI	3,181,555
KUMAR, SUJAY	3,181,384	LAYTON, KELVIN JON	LI, QINGYI	3,182,026
KUMMER, DAVID	3,181,676	LE BEC, LANIG	LI, RUI	3,181,365
KUNARDI, LINDA	3,173,773	LEADLEY, DAVID	LI, SHI	3,165,187
KURARAY CO., LTD.	3,181,661	LEADLEY, DAVID	LI, SHIFENG	3,181,585
KUSHNIR, ALON	3,173,304	LEADLEY, DAVID	LI, TIAN TIAN	3,181,579
KUSHNIR, MARAT	3,173,437	LEADLEY, DAVID	LI, TRACY LEANNE	3,181,409
KUSUMOTO, MASA AKI	3,181,656	LEAH, THOMAS	LI, WEI	3,173,333
KVIST, MARTEN	3,173,671	LEAH, THOMAS	LI, WULIN	3,173,577
		LEAL JUNIOR, ERNESTO	LI, XIBEN	3,173,354
		CESAR PINTO	LI, XIN	3,173,613

Index of PCT Applications Entering the National Phase

LI, XINCHENG	3,173,367	LOO, DERYK	3,181,535	MACQUARIE UNIVERSITY	3,173,184
LI, XUEJUN	3,181,378	LOPEZ, RANDOLPH	3,173,351	MACROGENICS, INC.	3,181,535
LI, YAN	3,181,337	LORENZ, IVO	3,181,776	MADDEN, MICHAEL E.	3,181,781
LI, YINGCHUN	3,181,579	LORENZ, KATRIN	3,173,517	MADIER, JEAN-LUC	3,173,774
LI, ZHE	3,181,577	LORETI, LUIGI	3,173,634	MAGDESIAN, MARGARET	
LI, ZHE	3,181,583	LOSKOT, STEVEN	3,181,676	HAIGANOUCHE	3,173,455
LIAN, XIAOJUN	3,173,423	LOTTA, LUCA ANDREA	3,181,543	MAGNAN, FRANCOIS	3,173,169
LIANG, ANN JIA-BAO	3,182,010	LOUET, ESTELLE	3,181,943	MAGUIRE, MICHAEL JOSEPH	3,173,689
LIANG, JINGXIN	3,173,417	LOW, AARON WAI KIT	3,181,384	MAHABOOB BASHA, ABDUL	
LIANG, WENJIE ROBIN	3,173,212	LOW, KEVIN Y.	3,173,116	A.	3,173,495
LIANG, WENJIE ROBIN	3,173,220	LOWRY, WILLIAM	3,181,919	MAHADEVU, KRISHNA	3,167,753
LIANG, YANKE	3,173,629	LOZA, LAURA MARQUEZ	3,177,006	MAHAJAN, SHIVANI	3,181,389
LIAO, GUOQIANG	3,181,558	LU, HELEN	3,173,757	MAHDAVI, ALBORZ	3,173,417
LIAU, GENE	3,173,647	LU, JIASHENG	3,173,095	MAI, ESTEVAO FRIGINI	3,181,926
LIEPERT, DAVID	3,173,421	LU, LU-PING	3,173,720	MAILLOUX, ALAIN	3,173,623
LIFESCIENCE AS	3,173,633	LU, NA	3,181,589	MAJANO, GERARDO J.	3,173,653
LIFESTRAW SARL	3,173,774	LU, SHI-LONG	3,181,788	MAKITA, KEIKO	3,173,715
LIGAND INNOVATION		LU, XIANPING	3,181,558	MALAVOLTI, MILAD	3,173,157
GLOBAL LTD.	3,181,947	LU, YAMIN	3,181,589	MALEGAM, KESHAD D.	3,173,232
LIGAR LIMITED		LU, YEN-TA	3,173,603	MALEWICZ, GRZEGORZ	3,181,615
PARTNERSHIP	3,181,384	LUCAS, XAVIER	3,181,790	MALEWSKI, RAFAL	
LIGNANI, GABRIELE	3,173,181	LUCKOW, ALAN	3,173,464	KRZYSZTOF	3,181,225
LIJBACH, WILLEM	3,181,372	LUDUSAN, COSMIN V.	3,173,716	MALEWSKI, RAFAL	
LIM, DONGGUK	3,181,798	LUK, MARIA	3,173,132	KRZYSZTOF	3,181,355
LIMITED LIABILITY		LUMENDO AG	3,181,173	MALI, SACHITANAND	3,173,417
COMPANY OILMIND	3,173,288	LUNA-ROMAN, ROSA	3,181,418	MALIK, AJAY	3,173,667
LIN, CHIN	3,173,078	LUNARDINI, FRANCESCA	3,173,157	MALLELA, PRANEETA	3,173,465
LIN, HENING	3,181,166	LUNDGREN, AMANDA	3,181,375	MALLET, FRANCOIS	3,173,822
LIN, KAI	3,173,701	LUNDGREN, AMANDA	3,181,379	MALLOV, IAN	3,173,739
LIN-LIU, YVONNE GAIL	3,165,187	LUNELLA BIOTECH, INC.	3,181,794	MALONE, RYAN	3,173,237
LINDNER, GREGORY JAMES	3,173,462	LUO, ZHUSHOU	3,173,432	MALOTKY, DAVID L.	3,173,475
LINET SPOL. S R.O.	3,181,607	LUPP, MICHAEL	3,181,359	MALUS, PETER	3,181,641
LINSKY, THOMAS	3,173,628	LUXEMBOURG INSTITUTE OF		MANCINI, INES	3,173,357
LISANTI, MICHAEL P.	3,181,794	HEALTH (LIH)	3,181,609	MANCOSKY, DOUGLAS	3,181,408
LISTER, SEAN	3,173,675	LV, HAILI	3,181,579	MANCUSO, MICHAEL	
LIU, BAI	3,181,417	LV, LIANG	3,173,367	ALBERT	3,182,007
LIU, CHANG	3,181,284	LV, PENG	3,181,579	MANDLE, GARY B.	3,181,332
LIU, DONGMEI	3,181,776	LYDHIG, THOMAS	3,173,087	MANGOLD-GEHRING,	
LIU, FENG	3,181,205	LYMPERPOULOS, IOANNIS	3,173,315	SANDRA	3,173,383
LIU, HONG	3,181,179	LYNDRA, INC.	3,173,792	MANGSBO, SARA	3,181,617
LIU, JIANHUA	3,173,434	LYONS, ARTHUR P.	3,181,405	MANHAS, SANJAY	3,173,739
LIU, JINGWEI	3,181,566	MA'ANSHAN ANDER		MANN, BRENDA K.	3,173,160
LIU, JIWEN	3,181,538	TECHNOLOGIES	3,181,937	MANN, BRENDA K.	3,173,164
LIU, LIANG	3,173,795	MA, JUN	3,173,333	MANN, TYLER J.	3,173,354
LIU, LINA	3,173,160	MA, WANFU	3,173,475	MANNESCHI, ALESSANDRO	3,173,071
LIU, MI	3,173,466	MA, YIMIN	3,181,589	MANSIKKASALO, JARMO	3,181,201
LIU, XUEJUN	3,181,418	MA, ZHAOXIONG	3,181,589	MANTYLA, JENNY	3,173,418
LIU, YANG	3,181,380	MACCI, FLAVIO	3,173,227	MANZ, THERESA	3,173,819
LIW INNOVATION AB	3,173,771	MACCI, FLAVIO	3,173,229	MANZ, TIMO	3,173,151
LIW INNOVATION AB	3,181,666	MACCI, FLAVIO	3,173,230	MANZO, MICHAEL	3,173,160
LLOYD, RHYS	3,181,782	MACCI, FLAVIO	3,173,231	MAO, NATHAN	3,173,338
LOCI CONTROLS, INC.	3,181,773	MACCI, FLAVIO	3,173,234	MAO, YI-WEN	3,173,720
LOCKHEED MARTIN		MACCOSS, MALCOLM	3,182,012	MAO, ZHUQING	3,173,367
CORPORATION	3,181,373	MACHETTIRA, ANU		MARASS, FRANCESCO	3,173,453
LOCKHEED MARTIN		BHEEMAI AH	3,181,349	MARCOZ, ALAIN	3,173,312
CORPORATION	3,181,390	MACHOVEC, JEFFREY	3,173,508	MARCUSSON, ERIC G.	3,173,429
LOGAN, AARON	3,173,401	MACIAGOWSKI, MACIEJ	3,173,384	MARHUENDA, EMILIE	3,091,457
LOH, KYLE M.	3,173,124	MACIAGOWSKI, MACIEJ	3,173,386	MARIN COSTA, DAVID	3,181,774
LONARDI, FRANCIS	3,181,957	MACIAGOWSKI, MACIEJ	3,173,390	MARINOVIC, SRDJAN	3,181,775
LONDON, NIR	3,173,679	MACKAY, JOHN	3,181,408	MARJAN, CHRISTOPHER	3,173,582
LONG BRIDGE MEDICAL,		MACKMAN, RICHARD L.	3,181,922	MARS, INCORPORATED	3,173,516
INC.	3,181,412	MACLEAN, ADAM	3,181,190	MARS, INCORPORATED	3,173,518
LONG, JIANG	3,173,333	MACNAUGHTON, PIERS IAIN		MARSH, CLAY	3,173,456
LONG, KATELYN FRANCES	3,173,569	IVO OCTAVIAN	3,173,667		

Index des demandes PCT entrant en phase nationale

MARTEL CARBONNEAU, VINCENT	3,173,707	MCGRATH, CONOR	3,173,385	MIHU, SERGIU G.	3,173,343
MARTIN FERNANDEZ, FRANCISCO	3,173,081	MCGRATH, KEVIN	3,173,354	MIKLADAL, BJORN	3,181,347
MARTIN OROZCO, NATALIA	3,173,429	MCININCH, JAMES D.	3,181,198	MILAN, SANDRA	3,182,018
MARTIN, CONNOR	3,181,676	MCININCH, JAMES D.	3,181,400	MILCZEK, ERIKA M.	3,181,352
MARTIN, CONNOR	3,181,793	MCKILLIAM, ROBERT GEORGE	3,173,764	MILEWSKI, LUKASZ	3,173,386
MARTIN, IAN	3,181,773	MCKINNEY, CONNIE M.	3,181,603	MILEWSKI, LUKASZ	3,173,390
MARTINEZ FEMENIA, FRANCISCO	3,181,334	MCKINNON, DOUGLAS V.	3,181,373	MILLER, BLAINE	3,173,174
MARTINEZ GUILLEN, MANUEL	3,181,334	MCLAUGHLIN, KYLE P.	3,173,513	MILLER, KEITH DOUGLAS	3,173,307
MARTINEZ, ALEXANDER	3,173,506	MCLEAN, DAVID WILLIAM	3,181,100	MILLS, DAVID R.	3,173,397
MARTINEZ, IGNACIO	3,174,241	MCLEAN, JOHNATHAN ALEXANDER	3,173,569	MILNE, GRAHAM F.	3,181,787
MARTINOVICH, KRIS K.	3,173,397	MCMASTER UNIVERSITY	3,173,740	MILWAUKEE ELECTRIC TOOL CORPORATION	3,173,765
MAS ROCAMORA, MOISES	3,181,334	MCMICHAEL, JUSTIN	3,173,424	MINATO, RAYMOND JOHN	3,181,947
MASLO, CHRISTOPH	3,181,591	MCNEIL AB	3,181,597	MINOVIA THERAPEUTICS LTD.	3,173,425
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	3,173,407	MCNEIL AB	3,181,602	MINTER, RICHARD	3,173,237
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	3,181,593	MCNEIL AB	3,181,939	MIRAMETRIX INC.	3,173,716
MASSE, CRAIG E.	3,181,537	MCQUILLAN, KARINA	3,173,493	MIRATA SOFTWARE, LLC	3,181,568
MASTIO, SIMON	3,173,293	MCQUILLAN, KARINA	3,173,494	MIRMESDAGH, KASRA	3,173,166
MASTRORILLO, THIERRY	3,181,795	MCROBB, FIONA MICHELLE	3,181,537	MISH, MICHAEL R.	3,181,922
MASUI, KOSUKE	3,182,001	MCTARSNEY, JOSEPH	3,181,361	MISHRA, ABHINAVA K.	3,173,673
MATERIAS S.R.L.	3,173,194	MCTIGUE, MICHELE ANN	3,181,415	MITCHELL, JAMES MURRAY	3,173,100
MATHENY, CHRISTINA JEANNE	3,165,187	MEDICORTEX FINLAND OY	3,173,671	MITCHELL, JAMES MURRAY	3,173,111
MATRIXOME, INC.	3,181,553	MEDIMMUNE LIMITED	3,181,765	MITO KOGYO CO., LTD.	3,181,357
MATSUMOTO, HIROKAZU	3,173,510	MEDUNA, STEVEN	3,181,676	MITSUBISHI PENCIL COMPANY, LIMITED	3,173,099
MATSUMOTO, TAKESHI	3,173,715	MEI, FANGHUA	3,181,425	MITTENESS, BRADLEY M.	3,177,290
MATTEI, JEAN-LUC	3,173,420	MELLGARD, BJORN	3,173,709	MKRTICHYAN, MIKAYEL	3,182,012
MATTEI, PATRIZIO	3,181,790	MELLINGER, JUSTIN	3,181,597	MODULEUS	3,181,376
MATTILA, JOHN	3,181,779	MELLINGER, JUSTIN	3,181,602	MODULEUS	3,181,386
MAUNOURY, ABEL	3,173,693	MEMORIAL SLOAN KETTERING CANCER CENTER	3,173,453	MODULEUS	3,181,398
MAYNE, CHRISTOPHER GLENN	3,173,569	MEMORIAL SLOAN- KETTERING CANCER CENTER	3,181,394	MOGNA, VERA	3,181,953
MAZANETZ, MICHAEL PHILIP	3,181,388	MENAFRO, AMEDEO	3,181,627	MOHAMMED, MANSOOR	3,173,421
MAZANETZ, MICHAEL PHILIP	3,181,391	MENDE, SREENIVAS	3,181,917	MOHANKUMAR, KUMARAVEL	3,173,724
MAZANETZ, MICHAEL PHILIP	3,181,393	MENDUS, DIANA	3,165,187	MOHANTY, PRAVANSU S.	3,173,418
MAZOUÉ, THIBAUD	3,173,153	MENG, FANCHI	3,173,607	MOHR, WOLFGANG	3,173,812
MAZUNIN, DMITRY	3,181,790	MENG, RAYMOND D.	3,165,187	MOHRBACHER, RALF	3,173,812
MAZZEI, NICOLE MARIE	3,181,421	MENKHAUS, JULIE ANN	3,173,757	MOK, DANIEL WING FAI	3,173,440
MAZZIE, MARC	3,181,775	MERCIER, DOMINIQUE	3,173,392	MOLLER, BRIAN THOFT MOTH	3,181,225
MBOW, MOUHAMADOU LAMINE	3,181,776	MERCK PATENT GMBH	3,181,613	MOLLER, BRIAN THOFT MOTH	3,181,355
MC (US) 3 LLC	3,181,397	MERDJI, YOHAN	3,181,644	MOLLOY, BRIAN	3,181,409
MCAVOY, JESSICA MARIE	3,173,401	MERKEL, TIMOTHY J.	3,173,685	MOLMERET, CELINE	3,173,670
MCCARTHY, CLIVE	3,181,354	MERLIN, GERARD	3,173,449	MOLONEY, PATRICK	3,173,138
MCCARTHY, DENNIS	3,173,144	MERZEAU, JULIEN D.	3,173,463	MOLONEY, PATRICK	3,173,180
MCCARVER, STEFAN	3,181,676	MESIROW, ROBERT	3,181,775	MOLONEY, PATRICK	3,173,218
MCCLUNG, ARTHUR III	3,173,615	MESOBLAST INTERNATIONAL SARL	3,173,216	MOLONEY, PATRICK	3,173,227
MCCRADY, JOHN	3,173,214	METAFOOLD INC.	3,173,139	MOLONEY, PATRICK	3,173,229
MCCRAY JR., PAUL B.	3,177,006	METZGER, TODD	3,173,414	MOLONEY, PATRICK	3,173,230
MCDERMOTT, MICHAEL	3,181,544	MEYER, BJORN	3,173,158	MOLONEY, PATRICK	3,173,231
MCDONALD, CRAIG	3,173,502	MEZHEBOVSKY, TATYANA	3,173,631	MOLONEY, PATRICK	3,173,233
MCDONALD, DANIEL J.	3,173,397	MGI HOLDINGS CO., LIMITED	3,181,585	MOLONEY, PATRICK	3,173,234
MCDONOUGH, KATHLEEN MARY	3,173,757	MGI TECH CO., LTD.	3,173,585	MOLONEY, PATRICK	3,173,235
MCELLIGOTT, DAVID L.	3,173,569	MI, GUORUI	3,173,804	MOLONEY, PATRICK	3,173,238
MCELROY, AMBER HOPE FELICITY	3,181,384	MIAO, GUOBIN	3,167,753	MOMENTA PHARMACEUTICALS, INC.	3,182,023
MCFETRIDGE, ROBERT	3,173,193	MICALLEF, DAVID	3,173,473	MONDAL, KALYANI	3,181,197
MCGHIE, MICHAEL	3,173,502	MICH, JOHN K.	3,173,609	MONDAL, SAYAN	3,181,537
		MIDDENDORF, BERNHARD	3,173,275	MONNERET, GUILLAUME	3,173,822
		MIDDENDORF, BERNHARD	3,173,280		
		MIDDENDORF, BERNHARD	3,173,335		
		MIDDENDORF, BERNHARD	3,173,342		

Index of PCT Applications Entering the National Phase

MONPOU TRUCHET, CAROLINE	3,173,349	MURDOCH, ROBERT ROSS	3,181,370	NEOZYME INTERNATIONAL, INC.	3,181,385
MONTELEONE, JONATHAN	3,173,631	MURPHY, DENNIS S.	3,173,665	NESDOLY, SHAWNA LYNN	3,173,769
MONTELL, DENISE	3,173,673	MURRAY, BRONSON	3,181,373	NESSELHUT, JAN	3,173,136
MONTEZCO, JUAN JARAMILLO	3,173,792	MURRAY, BRONSON	3,181,390	NESSELHUT, THOMAS	3,173,136
MONTI, ANTHONY	3,181,340	MURRAY, FERGAL	3,173,457	NEUBASE THERAPEUTICS, INC.	3,173,504
MONTOYA, MATHIEU	3,173,516	MURRAY, JACKELYN	3,173,187	NEUMAYER, BERNHARD	3,173,395
MONTSERRAT SANCHEZ PENA, MARIA	3,173,368	MURRAY, RICHARD	3,173,134	NEUROLOOP GMBH	3,181,625
MOORE, DANIEL	3,181,544	MUSKE-DUKES-DRIGGS, ANNE	3,181,336	NEVES, MIGUEL	3,181,176
MOORE, JONATHAN ANDREW CROCKETT	3,173,159	MYRIOTA PTY LTD	3,173,764	NEVES, MIGUEL	3,181,186
MOORE, STEPHEN	3,173,325	NACHTIGAL, JAY	3,173,215	NEWLAND, CORY SCOTT	3,173,680
MOORHEAD, PENJIT	3,181,594	NADEAU, ALEXANDRE	3,173,707	NEWTON, DANIEL CRAIG	3,181,370
MOORTHY, SAUMYA	3,173,792	NAHAMA, ALEXIS	3,173,611	NGM BIOPHARMACEUTICALS, INC	3,181,197
MORA, SERGIO	3,173,606	NAIR, JALATHI S.	3,167,753	NGUYEN DUC, ANH	3,165,187
MORADI, LOGHMAN	3,173,401	NAIR, SAJIV KRISHNAN	3,181,415	NGUYEN, ALANA T.	3,173,124
MORADI, LOGHMAN	3,173,769	NAKAMURA, TAKECHIKA	3,173,101	NGUYEN, LONG	3,173,354
MORAES, CARLOS T.	3,173,245	NALLY, KAREN MICHELLE	3,181,918	NGUYEN, MINH MINDY BAO	3,181,416
MORAMPUDI, OOHA	3,167,753	NAM, KI HA	3,181,167	NI, HEYU	3,181,176
MORAN, JOSUE D.	3,173,190	NAM, KI SEOK	3,173,310	NI, HEYU	3,181,186
MORENO-GARCIA, MIGUEL E.	3,181,776	NANDRA, CHARANJIT	3,173,227	NICHOLS, JASON	3,173,481
MORGAN, GEORGE KAVIN, III	3,181,175	NANDRA, CHARANJIT	3,173,229	NICOLAIS, LUIGI	3,173,194
MORGAN, JONATHAN BARRETT	3,181,467	NANDRA, CHARANJIT	3,173,233	NICOLAIS, LUIGI	3,173,199
MORGAN, MELISSA A.	3,173,100	NANDRA, CHARANJIT	3,173,234	NICOVENTURES TRADING LIMITED	3,173,092
MORGANS JR., DAVID J.	3,173,761	NANDRA, CHARANJIT	3,173,235	NICOVENTURES TRADING LIMITED	3,173,104
MORGEN, ERIC KIM	3,181,403	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,128
MORIN, NICOLAS	3,171,363	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,138
MORIYAMA, EDUARDO	3,173,440	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,180
MORRIS, JOHN	3,173,245	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,218
MOSZCZUK, BARBARA	3,173,643	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,222
MOTOROLA SOLUTIONS, INC.	3,173,397	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,225
MOUCADEL, VIRGINIE	3,173,822	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,227
MOULTON, BENJAMIN	3,181,354	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,229
MOUNTZ, JONATHAN K.	3,173,448	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,230
MOUSA, SHAKER A.	3,173,654	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,231
MOUSSA, ABIR CHAHRAZAD BORHOT	3,173,401	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,233
MOUSSA, ADEL	3,173,656	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,234
MOUSSA, ADEL	3,173,661	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,235
MOUSSA, ADEL	3,173,701	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,238
MOUSTAKIM, MOSES	3,165,309	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,239
MOUSTAKIM, MOSES	3,173,629	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,284
MOZDZIERZ, JOSEPH A.	3,181,776	NANDRA, CHARANJIT	3,173,238	NICOVENTURES TRADING LIMITED	3,173,285
MPSQUARED, LLC	3,173,473	NANDRA, CHARANJIT	3,173,238		
MUA, JOHN PAUL	3,173,284	NANDRA, CHARANJIT	3,173,238		
MUA, JOHN PAUL	3,173,286	NANDRA, CHARANJIT	3,173,238		
MUA, JOHN PAUL	3,173,290	NANDRA, CHARANJIT	3,173,238		
MUCHA, KRZYSZTOF	3,173,643	NANDRA, CHARANJIT	3,173,238		
MUKADAM, VILAS MANIKANT	3,181,551	NANDRA, CHARANJIT	3,173,238		
MULLER, BOYCE LEE	3,181,414	NANDRA, CHARANJIT	3,173,238		
MULLER, CHRISTIAN	3,181,342	NANDRA, CHARANJIT	3,173,238		
MULLER, DIDIER	3,173,403	NANDRA, CHARANJIT	3,173,238		
MULLER, THOMAS	3,181,349	NANDRA, CHARANJIT	3,173,238		
MULLIN, MARTIN CONRAD	3,173,128	NANDRA, CHARANJIT	3,173,238		
MULLIN, MARTIN CONRAD	3,173,138	NANDRA, CHARANJIT	3,173,238		
MULPURI, RAO P.	3,173,667	NANDRA, CHARANJIT	3,173,238		
MULTI RADIANCE MEDICAL	3,181,560	NANDRA, CHARANJIT	3,173,238		
MUNOZ, MANUEL	3,173,761	NANDRA, CHARANJIT	3,173,238		
MUNRO, IAN M.	3,173,484	NANDRA, CHARANJIT	3,173,238		
MURAOKA, MASARU	3,173,519	NANDRA, CHARANJIT	3,173,238		

Index des demandes PCT entrant en phase nationale

NICOVENTURES TRADING LIMITED	3,173,286	NILAR, SHAHUL	3,181,577	OR, YAT SUN	3,173,354
NICOVENTURES TRADING LIMITED	3,173,290	NILAR, SHAHUL	3,181,583	OREBOM, ALEXANDER	3,173,167
NICOVENTURES TRADING LIMITED	3,173,292	NIR, NOAM	3,181,777	ORME, BRIAN	3,173,652
NICOVENTURES TRADING LIMITED	3,173,340	NIU, DEQIANG	3,167,753	ORTAC, INANC	3,173,699
NICOVENTURES TRADING LIMITED	3,173,346	NOIZET, ALAIN	3,173,283	ORUM THERAPEUTICS, INC.	3,173,118
NICOVENTURES TRADING LIMITED	3,173,364	NOKIA TECHNOLOGIES OY	3,173,460	OSAA INNOVATION APS	3,181,343
NICOVENTURES TRADING LIMITED	3,173,368	NOLTING, BIRTE	3,173,126	OSAKA UNIVERSITY	3,181,553
NICOVENTURES TRADING LIMITED	3,173,372	NORDSTROM, EVA	3,181,207	OSE IMMUNOTHERAPEUTICS	3,181,394
NICOVENTURES TRADING LIMITED	3,173,375	NORTHEMANN, RALF	3,181,620	OSMERS, RUDIGER	3,173,136
NICOVENTURES TRADING LIMITED	3,173,385	NORTHERN COLORADO CONSTRUCTORS, INC.	3,173,105	OST, AMALIA	3,173,167
NICOVENTURES TRADING LIMITED	3,173,388	NOVA BIOMEDICAL CORPORATION	3,173,125	OSTERLOH, CHRISTOPH	3,173,467
NICOVENTURES TRADING LIMITED	3,173,389	NOVA CHEMICALS CORPORATION	3,181,387	OTTOMAN, MARK STEVEN	3,181,195
NICOVENTURES TRADING LIMITED	3,173,477	NOVA CHEMICALS CORPORATION	3,181,409	OWENS CORNING INTELLECTUAL CAPITAL, LLC	3,181,383
NICOVENTURES TRADING LIMITED	3,173,479	NOVARTIS AG	3,181,961	OWENS, PETER	3,173,473
NICOVENTURES TRADING LIMITED	3,173,483	NOWAK, JESKO JAY	3,181,645	OY FINNSUSP AB	3,173,219
NICOVENTURES TRADING LIMITED	3,173,485	NOWAK, JESKO JAY	3,181,940	OZSVARI, BELA	3,181,794
NICOVENTURES TRADING LIMITED	3,173,487	NOWAK, MIRKO	3,181,645	PACHOT, ALEXANDRE	3,173,822
NICOVENTURES TRADING LIMITED	3,173,488	NOWAK, MIRKO	3,181,940	PACKARD, THOMAS	3,173,450
NICOVENTURES TRADING LIMITED	3,173,489	NOWAK, REINHARD	3,181,645	PACZEK, LESZEK	3,173,643
NICOVENTURES TRADING LIMITED	3,173,493	NOWAK, REINHARD	3,181,940	PADULA, RICHARD	3,181,568
NICOVENTURES TRADING LIMITED	3,173,494	NULTY, COLM	3,181,945	PADULA, ROBERT	3,181,568
NICOVENTURES TRADING LIMITED	3,173,496	NURMI, VENLA-MARI	3,173,671	PAGA, VENKATA RAMA KARTHIK	3,177,161
NICOVENTURES TRADING LIMITED	3,173,498	NUTI, GINA M.	3,181,169	PAIDI, VENKATRAM REDDY	3,167,753
NICOVENTURES TRADING LIMITED	3,173,499	NUTS HOLDINGS, LLC	3,173,624	PALANDE, DHANASHREE	3,173,481
NICOVENTURES TRADING LIMITED	3,173,501	NYANDER, ANDERS	3,173,815	PALANIAPPAN, PRABU	3,173,495
NICOVENTURES TRADING LIMITED	3,173,503	NYGREN, PATRIK	3,181,207	PALANIVELU, SANGEETHA TANDALAM	3,173,111
NICOVENTURES TRADING LIMITED	3,173,503	NYITRAY, CRYSTAL	3,173,482	PALLEON PHARMACEUTICALS INC.	3,173,145
NICOVENTURES TRADING LIMITED	3,173,503	O'BRIEN, ULTAN	3,173,457	PALLEON PHARMACEUTICALS INC.	3,173,557
NICOVENTURES TRADING LIMITED	3,173,503	O'CONNELL, DANIEL NEIL	3,174,292	PALLEON PHARMACEUTICALS INC.	3,173,668
NICOVENTURES TRADING LIMITED	3,173,503	O'DELL, TYLER DALE	3,181,777	PALMER, CHRISTINE DENISE	3,173,793
NICOVENTURES TRADING LIMITED	3,173,503	O'HALLORAN, DAVID	3,181,182	PALMIERI, GIANNA	3,173,194
NICOVENTURES TRADING LIMITED	3,173,503	O'SHEA, MORGAN WELZEL	3,173,629	PAN, DESI	3,181,558
NICOVENTURES TRADING LIMITED	3,173,503	O'SULLIVAN, NIALL	3,173,457	PAN, YONG	3,181,403
NICOVENTURES TRADING LIMITED	3,173,503	O'TOOLE, JONATHAN	3,173,182	PAN, ZHIJIN	3,181,937
NICOVENTURES TRADING LIMITED	3,173,503	ODFJELL PARTNERS INVEST LTD	3,173,223	PANARESE, JOSEPH D.	3,173,333
NICOVENTURES TRADING LIMITED	3,173,503	OFENGEIM, DIMITRY	3,173,330	PANDA, MANORANJAN	3,167,753
NICOVENTURES TRADING LIMITED	3,173,503	OGUNDIJO, TUNJI	3,173,672	PANDE, SANDHYA	3,173,178
NICOVENTURES TRADING LIMITED	3,173,503	OH, BONG	3,173,125	PANE, MARCO	3,181,953
NICOVENTURES TRADING LIMITED	3,173,503	OH, YOUNGSEOK	3,173,605	PANG, CHAI LING	3,173,519
NICOVENTURES TRADING LIMITED	3,173,503	OHLIN, JOAKIM	3,173,815	PANTAPHARM AG	3,173,136
NICOVENTURES TRADING LIMITED	3,173,503	OKUDA, DARIN T.	3,181,168	PANUSOPONE, KRIT	3,173,460
NICOVENTURES TRADING LIMITED	3,173,503	OLAFSEN, JEFFERY S.	3,181,331	PAOLI, HERVE	3,173,486
NICOVENTURES TRADING LIMITED	3,173,503	OLAFSEN, LINDA J.	3,181,331	PAQUETTE, MARK	3,174,241
NICOVENTURES TRADING LIMITED	3,173,503	OLAKULEHIN, OLADAYO EMMANUEL	3,181,947	PARCQ, JEROME	3,181,943
NICOVENTURES TRADING LIMITED	3,173,503	OLAYIWOLA, BOLAJI	3,181,387	PARDIGON, NATHALIE	3,173,158
NICOVENTURES TRADING LIMITED	3,173,503	OLDEN, BRYNN	3,181,339	PARK, EUN JIN	3,173,353
NICOVENTURES TRADING LIMITED	3,173,503	OLSSON, KRISTOFFER	3,181,360	PARK, EUNSUNG	3,181,798
NICOVENTURES TRADING LIMITED	3,173,503	OMER, MOHAMMAD	3,173,361	PARK, HANGIL	3,173,480
NICOVENTURES TRADING LIMITED	3,173,503	OMER, MOHAMMAD	3,173,363	PARK, KIBUM	3,173,310
NICOVENTURES TRADING LIMITED	3,173,503	OMER, MOHAMMAD	3,173,370	PARK, PETER U.	3,173,118
NICOVENTURES TRADING LIMITED	3,173,503	OMEZA HOLDINGS, INC.	3,173,441	PARK, SEONGJEONG	3,173,406
NICOVENTURES TRADING LIMITED	3,173,503	OMG, INC.	3,173,198	PARK, SOON-JAE	3,173,310
NICOVENTURES TRADING LIMITED	3,173,503	ONO PHARMACEUTICAL CO., LTD.	3,181,604	PARODI, PATRICK	3,181,775
NICOVENTURES TRADING LIMITED	3,173,503	ONO, ICHIRO	3,181,357	PARRY, GRAHAM	3,173,325
NICOVENTURES TRADING LIMITED	3,173,503	OOI, CHUN KEAT	3,173,823		
NIELSEN, KENT ALBIN	3,173,082	OP2LYSIS	3,181,943		
NIKBAKHTIAN, SHAHRAM	3,181,208	OR, YAT SUN	3,173,333		

Index of PCT Applications Entering the National Phase

PARSEIHIAN, BRUNO	3,181,800	PHANES THERAPEUTICS, INC.	3,173,176	PROW, NATALIE	3,173,795
PARSEIHIAN, BRUNO	3,181,801	PHILLIPS, ANDREW J.	3,173,658	PUCA, LOREDANA	3,173,569
PARSONS, MICHAEL	3,181,563	PHILLIPS, JEREMY J.	3,181,920	PUERTO, GABRIEL JOSE	3,181,467
PARTEC AG	3,181,652	PHOENIX, JASON	3,181,928	PULTRUSION TECHNIQUE INC.	3,172,560
PARTSCH, GEORGE J.	3,173,650	PIEPLU, TANGUY	3,173,158	PUNYADEERA, CHAMINDIE	3,173,672
PARUPUDI, ARUN	3,181,765	PIERROU, CLARA	3,173,167	PURISYS, LLC	3,181,419
PASCAL, JEAN-MARC	3,173,774	PIRROTTE, PATRICK	3,181,609	PUSHAK, ALYOSHA	3,173,424
PATEL, JILPA BHUPENDRA	3,165,187	PITERA, ARTHUR	3,173,685	PY, SANDRINE	3,173,458
PATEL, KALPANA	3,173,322	PIVA, ANDREA	3,181,951	QI, GAO	3,173,755
PATEL, KRUTI	3,173,207	PIVOVAR, ROSS	3,173,497	QI, YAN	3,173,711
PATENTTITOIMISTO T. POUTANEN	3,181,341	PLATELET BIOGENESIS, INC.	3,173,513	QIN, YANAN	3,173,804
PATHOGENDX, INC.	3,173,680	PLIANT THERAPEUTICS, INC.	3,173,755	QIN, YU	3,181,579
PATHY MEDICAL, INC.	3,173,221	PLIANT THERAPEUTICS, INC.	3,173,761	QIU, WEIMING	3,173,757
PATHY MEDICAL, LLC	3,173,195	PLICHON, STEPHANE	3,173,816	QIU, YICHEN	3,173,181
PATHY, VINOD V.	3,173,195	PLICHON, STEPHANE	3,173,829	QIU, YUE	3,181,788
PATHY, VINOD V.	3,173,221	POIRIER, NICOLAS	3,181,394	QIU, YUPING	3,181,782
PAULOVICH, AMANDA	3,181,609	POLITECNICO DI MILANO	3,173,157	QUACH, DAVID H.	3,181,371
PEARSON, THOMAS CLARK	3,181,787	POLLINGER, NORBERT	3,181,645	QUACH, DAVID H.	3,181,374
PEAT, ANDREW JAMES	3,173,172	POLLINGER, NORBERT	3,181,940	QUACH, DAVID H.	3,181,377
PECE, SALVATORE	3,173,152	POLY-ROBOTICS INC.	3,173,451	QUANTA ASSOCIATES, L.P.	3,174,292
PECHERA, LEILANI	3,173,074	POMMER, BRIGITTE	3,173,383	QUANTUM VALLEY IDEAS LABORATORIES	3,181,284
PECHERA, LEILANI	3,173,075	POOLE, ANDREW	3,181,362	QUAY, STEVEN C.	3,173,515
PEDROCCHI, ALESSANDRA LAURA GIULIA	3,173,157	PORTER, ERIK W.	3,173,476	QUIGLEY, PETER	3,181,773
PEEKE, ERICK	3,173,792	PORTNEY, BENJAMIN ANDREW	3,173,399	QUINLAN, MARK	3,181,787
PEER, RICHARD	3,173,214	PORTS, MICHAEL	3,181,399	QUINN, MICHAEL	3,173,662
PENA, JOHN T. G.	3,173,100	POULSEN, JESSIE	3,173,082	QUINTERO, JOHANNES	3,173,638
PENA, JOHN T. G.	3,173,111	POUTANEN, TUOMO	3,181,341	QUINTERO, WILSON	3,173,188
PENDRI, YADAGIRI R.	3,181,917	POWERCELL SWEDEN AB	3,173,087	RAASCH, MELODY	3,173,518
PENG, HAIYAN	3,181,400	POYNTON, SIMON	3,173,104	RACHIDI, WALID	3,173,560
PENG, LI	3,173,145	POYNTON, SIMON	3,173,372	RADEMACHER, PETER MICHAEL	3,181,583
PENG, LI	3,173,557	POYNTON, SIMON	3,173,487	RAFFERTY, GALEN	3,173,621
PENG, LI	3,173,668	POYNTON, SIMON	3,173,488	RAGONNEAU, MARC	3,173,655
PENG, XIAOWEN	3,173,333	POYNTON, SIMON	3,173,499	RAHMANI, RAMIN	
PENG, YANG	3,173,513	POYNTON, SIMON	3,173,500	KHOSRAVI	3,181,563
PENTY, RICHARD VINCENT	3,181,914	POYNTON, SIMON	3,173,501	RAI STRATEGIC HOLDINGS INC.	3,173,493
PEPSICO, INC.	3,181,378	POYNTON, SIMON	3,173,503	RAI STRATEGIC HOLDINGS, INC.	3,173,494
PEPSICO, INC.	3,181,536	POYNTON, SIMON	3,173,529	INC.	3,173,705
PEPSICO, INC.	3,181,547	PRAVEEN, KAVITA	3,181,178	RAIKO, MIKKO	3,181,201
PEREA, SALLY	3,173,516	PRAVEEN, KAVITA	3,181,348	RAJABIAN, MAHMOUD	3,173,401
PERFOOD GMBH	3,173,443	PRECISION BIOSCIENCES, INC.	3,173,245	RAJAN, SUJATA SUNDARA	3,173,652
PERLADE, ASTRID	3,181,191	PREECE, DALE S.	3,173,659	RALPH, KERRY L. M.	3,181,776
PERONNET, ESTELLE	3,173,822	PRENTICE, KENNETH	3,173,178	RAMADORI, PIERLUIGI	3,173,613
PERSSON LOTSHOLM, HELENA	3,181,617	PRESLER, EUGEN	3,176,351	RAMAKRISHNAN, RAHUL	3,177,161
PETERS, CHRISTIAN G.	3,173,513	PRESLER, EUGEN	3,176,378	RAMBARRAN, TALENA	3,173,160
PETERSON, BRETT	3,173,442	PRICE, DAVID	3,181,181	RAMIREZ RESENDIZ, DAVID	3,173,077
PETITJEAN, BRUNO	3,173,283	PRICE, MATHEW JOHN	3,173,483	RAMIREZ-FORT, MARIGDALIA KALETH	3,173,452
PETRA PHARMA CORPORATION	3,173,569	PRICEWATERHOUSECOOPER S LLP	3,181,775	RAMOS, CARLOS A.	3,181,371
PETRITIS, KONSTANTINOS	3,181,609	PROBIOGEN AG	3,173,696	RAMOS, CARLOS A.	3,181,374
PETROLL, KERSTIN	3,173,184	PROBIOTICAL S.P.A.	3,181,953	RAMOS, CARLOS A.	3,181,377
PETTAZZONI, PIERGIORGIO FRANCESCO TOMMASO	3,173,629	PRODEUS, AARON	3,181,340	RAMOS-ZAYAS, REBECA	3,173,096
PFEIL, ARMIN	3,173,275	PRODRIVE TECHNOLOGIES INNOVATION SERVICES B.V.	3,181,626	RANDOLPH, LAUREN NICOLE	3,173,423
PFEIL, ARMIN	3,173,280	PROFETA, ROBERTO	3,181,213	RANGARAMANUJAM, KANNAN	3,181,171
PFEIL, ARMIN	3,173,335	PROIA, DAVID	3,173,658	RAPIER, RHETT A.	3,181,549
PFEIL, ARMIN	3,173,342	PROMETHEAN LIMITED	3,181,648	RAPPAPORT, AMY RACHEL	3,173,793
PFIZER INC.	3,181,415	PROTOMER TECHNOLOGIES INC.	3,173,417	RAPPAPORT, AMY RACHEL	3,173,803
PFLUGLER, MARTIN	3,173,151	PROVIDENCE THERAPEUTICS HOLDINGS INC.	3,173,429	RASA INDUSTRIES, LTD.	3,181,008
PFOHL, ANETT	3,181,342				
PHAM, THINH QUANG	3,165,187				

Index des demandes PCT entrant en phase nationale

RASMUSSEN, ERIC	3,173,237	RESONANT ACOUSTICS		ROUGHLEY, HOWARD	3,173,238
RATCLIFFE, JAMES DAVID	3,173,735	INTERNATIONAL INC.	3,173,282	ROUSSEAU, RAPHAEL	3,173,793
RATNI, HASANE	3,181,790	RETZLAFF, MARY	3,173,418	ROVIRA, ALEXANDER	3,181,676
RAVAL, KRUNAL	3,173,322	REYNOLDS, THOMAS	3,181,336	ROWBOTTOM, JACK	3,181,773
RAVEN INDUSTRIES, INC.	3,177,161	REZAI, ALI	3,173,456	ROWE, JENNIFER MARIA	3,173,705
RAVENS CROFT, NIGEL W.	3,181,383	REZELJ, VERONICA	3,173,158	ROY, SASHWATI	3,181,407
RAVI, KANNAN		REZVANI, KATY	3,181,774	RS ENERGY GROUP TOPCO, INC. CA.	3,173,607
KARUKURICHI	3,173,569	RHEACELL GMBH & CO. KG	3,181,591	RUE, TIM	3,181,919
RAVINDRAN, AADITYA	3,173,465	RHEEM MANUFACTURING COMPANY	3,173,343	RUEDA, ANGEL ARTURO	3,173,686
RAYTHEON BBN		RHORER, TIMOTHY	3,181,676	RULE, JEFFREY	3,173,204
TECHNOLOGIES	3,173,619	RHORER, TIMOTHY B.	3,181,793	RUSH, TRAVIS BENJAMIN	3,181,783
REAL INNOVATIONS		RICHARDSON, JOHN	3,181,174	RUTTER, RISA	3,174,241
INTERNATIONAL LLC	3,181,369	RICHTER, THOMAS FABIAN	3,173,183	RUVINSKY, ANATOLY	3,181,604
REALE, ANDREA	3,173,088	RICKLIN, FABIENNE	3,173,629	RYAN, PATRICK	3,173,440
REBO, JUSTIN	3,181,403	RIDEOUT, DARRYL C.	3,182,014	RYDE, ERIK ROBERT	
RECKENBEIL, JAN	3,181,591	RIEDEL, JURGEN	3,180,773	WALDEMAR	3,173,792
REDDRESS LTD.	3,173,304	RIEDER, ERIC M.	3,173,282	SABIR, SAMEER	3,173,472
REDDY, ARUN	3,173,418	RIEGGER, UWE	3,181,930	SABLE, PAUL J.	3,173,202
REDIKOP, ANDREAS	3,173,165	RIEMER, CLAUS	3,173,629	SABOURIN, LIONEL	3,173,774
REDKAR, SANJEEV	3,181,336	RIEMER, CLAUS	3,181,790	SACHRAJDA, ANDREW	3,181,928
REECE, HAYLEY	3,181,782	RIESCHL, SARAH M.	3,181,361	SAFE, STEPHEN	3,173,724
REEVE, MAXWELL MARCO	3,181,782	RIGEL PHARMACEUTICALS, INC.	3,173,432	SAFRAN LANDING SYSTEMS	3,173,153
REFRATECHNIK HOLDING GMBH	3,173,017	RIMMELE, THOMAS	3,173,822	SAFRAN LANDING SYSTEMS CANADA INC.	3,173,153
REGENERON		RISEN (SUZHOU) PHARMA TECH CO., LTD.	3,173,095	SAFRAN VENTILATION SYSTEMS	3,173,655
PHARMACEUTICALS, INC.	3,173,173	RITTEMANN, STEFFEN	3,173,444	SAGEL, PAUL ALBERT	3,181,210
REGENERON		RITZ, FABIAN	3,181,196	SAGEL, PAUL ALBERT	3,181,212
PHARMACEUTICALS, INC.	3,173,338	RITZ, FABIAN	3,181,199	SAGEL, PAUL ALBERT	3,181,344
REGENERON		RIZZELLO, LORENZO	3,181,569	SAHARIYA, GAURAV	3,173,675
PHARMACEUTICALS, INC.	3,181,178	ROBERT, ADRIAN	3,181,360	SAINT-GOBAIN GLASS FRANCE	3,173,582
REGENERON		ROBERTSON, JEROD	3,181,782	SAINT-REMY, JEAN-MARIE	3,181,368
PHARMACEUTICALS, INC.	3,181,348	ROCHE, JEAN-BAPTISTE	3,173,516	SAKAI, TAKAMASA	3,182,001
REGENERON		RODICK, ROBERT	3,181,803	SAKO OY	3,181,941
PHARMACEUTICALS, INC.	3,181,543	RODRIGUEZ ALVARO, ELAD	3,181,334	SAKO OY	3,181,942
REGENERON		RODRIGUEZ, JR., MICHAEL		SAKURAI, TSUTOMU	3,173,148
PHARMACEUTICALS, INC.	3,181,779	ANGELO	3,181,418	SALEH, ALI	3,091,457
REID, JOHN	3,173,502	RODRIGUEZ, PABLO	3,173,315	SALEH, MARIA-CARLA	3,173,158
REID, PAUL	3,173,182	ROFRANO, JOHN	3,173,078	SALIH, HELMUT	3,173,151
REIER, TOBIAS	3,173,444	ROHM AND HAAS COMPANY	3,173,728	SALIMI, HIWA	3,173,401
REILAND, MATTHEW	3,173,232	ROKU, INC.	3,181,225	SALIMI, HIWA	3,173,769
REILLY, MAUREEN	3,173,761	ROKU, INC.	3,181,355	SAMEC, JOSEPH	3,173,167
REILLY, TORIN	3,173,093	ROLLIN, PASCAL	3,173,655	SANA BIOTECHNOLOGY, INC.	3,173,096
REITANO, JAMES	3,181,346	ROLLO, ADAM	3,173,182	SANCHEZ SOLER, FRANCISCO	3,181,334
REMMEL, HARMON		ROMERO, ANTONIO	3,181,351	SANDIG, VOLKER	3,173,696
LAWRENCE	3,173,100	ROONEY, CLIONA M.	3,181,371	SANIDRINK S.R.L.	3,173,199
REMMEL, HARMON		ROONEY, CLIONA M.	3,181,377	SANKER, LOWELL ALAN	3,181,175
LAWRENCE	3,173,111	ROONEY, ISABELLE ANNE	3,165,187	SANOBI BIOTECHNOLOGY	3,173,173
REMMEREIT, JAN	3,173,633	ROOSEN, PHILIPP C.	3,181,213	SANTANGELO, GIUSEPPE	3,181,569
REN FUEL K2B AB	3,173,167	ROSE, JEFFREY	3,181,594	SANTOS, CARLOS F.	3,173,190
REN, SHUANG	3,181,882	ROSE, THOMAS	3,173,696	SARACCO, EMELINE	3,181,929
REN, YITANG	3,173,645	ROSENBERGER, CHANTAL	3,173,183	SARAGENO, JOSEPH FRANK, JR.	3,181,375
RENSINK, MANUEL	3,173,084	ROSEN LIND, FREDRIK	3,181,360	SARBONNE UNIVERSITE	3,173,112
RENTON, CARLA	3,173,368	ROSINGER, CHRISTOPHER HUGH	3,181,349	SARMAL, INC.	3,173,699
REO, JOSEPH P.	3,181,782	ROSS, AUDREY GRAHAM	3,167,753	SASAKI, YOSHIHIRO	3,181,188
REPERIO HEALTH, INC.	3,181,783	ROSS, CLARE	3,173,182	SATISH, SIDDARTH	3,173,637
RESKE, HENRIK	3,173,413	ROSS, ELISSA	3,173,139	SAUER, THOMAS C.	3,181,932
RESLINSKI, TOMASZ T.	3,173,139	ROUGHLEY, HOWARD	3,173,227	SAWA, MASA AKI	3,173,510
		ROUGHLEY, HOWARD	3,173,233	SAYADI, OMID	3,173,464
		ROUGHLEY, HOWARD	3,173,234	SAYADI, OMID	3,173,469
		ROUGHLEY, HOWARD	3,173,235		

Index of PCT Applications Entering the National Phase

SB-KAWASUMI LABORATORIES, INC.	3,173,321	SCORAH, NICHOLAS	3,173,129	SHEFFLER, WILLIAM H.	3,173,137
SCALLAN, CIARAN DANIEL	3,173,793	SCOTT & WHITE HEALTHCARE	3,181,331	SHELKE, SANDIP A.	3,173,145
SCALLAN, CIARAN DANIEL	3,173,803	SCOTT, ERIC	3,173,568	SHELKE, SANDIP A.	3,173,668
SCANLAN, JUSTIN	3,181,361	SCOTT, LINZY O., III	3,175,608	SHELTERED WINGS, INC. D/B/A VORTEX OPTICS	3,181,919
SCHADE, TIM	3,173,275	SCOUFARIS, JOHN SYMEON	3,173,426	SHEN, MINXING	3,181,351
SCHADE, TIM	3,173,280	SCRIBNER, JUNIPER A.	3,181,535	SHEN, RUICHAO	3,173,333
SCHADE, TIM	3,173,335	SEAL, SUDIPTA	3,181,177	SHEN, YAN	3,181,338
SCHADE, TIM	3,173,342	SEB S.A.	3,173,816	SHENGJULER, DJOSHKUN	3,173,158
SCHAECK, JOHN	3,182,023	SEB S.A.	3,173,829	SHEPPARD, DEAN	3,181,786
SCHEFLER, YURI	3,173,177	SECURKART LLC	3,173,360	SHER, NOA	3,173,425
SCHEIN, PHILIP S.	3,182,014	SECURRENCY, INC.	3,173,084	SHETH, ASHAY	3,181,920
SCHERF, STEVEN	3,173,637	SEDENO CORTES, ADRIANA ESTELA	3,173,609	SHETTY, JAYARAMA K	3,173,355
SCHERMANN, RUDY A.	3,173,686	SEEGER, FRANZISKA	3,173,137	SHI, DONGDONG	3,173,514
SCHERRER, SIMON	3,181,549	SEIBERT, JR., JEFFREY HALL	3,181,778	SHI, GANG	3,173,017
SCHLAKE, JAN CHRISTOPH	3,173,270	SEIDEL, DIETRICH	3,181,556	SHI, HONGWEI	3,181,482
SCHLAKE, JAN CHRISTOPH	3,173,398	SEKIGUCHI, KIYOTOSHI	3,181,553	SHI, HONGWEI	3,181,555
SCHLAKE, JAN CHRISTOPH	3,173,428	SELBY, MARK	3,173,480	SHI, JULIE	3,181,339
SCHLAPS, DIETER	3,181,613	SELETSKY, BORIS M.	3,167,753	SHI, LIMIN	3,181,361
SCHLEGEL, MARK K.	3,181,198	SELL, ANNIKA	3,173,189	SHI, QINGHUA	3,173,514
SCHLEGEL, MARK K.	3,181,400	SELVAKUMAR, KUMARAVEL	3,167,753	SHIERLY, ERIC	3,173,338
SCHLUMBERGER CANADA LIMITED	3,181,194	SEMENTIS LIMITED	3,173,795	SHIH, TSAI-MIAO	3,173,720
SCHLUMBERGER CANADA LIMITED	3,181,921	SEN, ARPITA	3,173,351	SHIN, CHANG-YELL	3,181,045
SCHLUTER, JOCHEN	3,181,620	SEN, CHANDAN K.	3,181,407	SHINDEL, WILLIAM	3,181,352
SCHMEDTJE, JOHN	3,173,143	SEQUEIRA, CLARENCE	3,181,547	SHINKEI THERAPEUTICS LLC	3,173,322
SCHMEING, THOMAS MARTIN THORNE	3,173,244	SERGEEV, VITALII VYACHESLAVOVICH	3,173,288	SHINOHARA, HIROKI	3,181,185
SCHMIDER, JOHN PAUL	3,181,467	SERHAL, KAMAL	3,181,387	SHOEMAKER, KENNETH	3,181,330
SCHMIDT, BENEDIKT	3,173,270	SEROCK, YONG JIN	3,181,378	SHOOP, WENDY	3,173,245
SCHMIDT, BENEDIKT	3,173,398	SERVATUS LTD	3,173,507	SHORE DEFENCE LIMITED	3,181,358
SCHMIDT, FRANZISKA	3,173,383	SEVERANCE, DANIEL LEE	3,173,569	SHPALL, ELIZABETH	3,181,774
SCHMITT, ANNE-MARIE DECHERT	3,181,415	SEYFRIED, BIRGIT	3,173,709	SI, GANG	3,173,757
SCHMOCKER, ANDREAS	3,181,173	SHAABAN, ABDUSALAM	3,181,776	SICK, MICHAEL	3,173,444
SCHMUTZLER, DIRK	3,181,349	SHABAHANG, SHAHROKH	3,181,179	SIDDIQUI, KASHIF	3,173,421
SCHNEIDER, KYLE	3,181,913	SHAFFER, JAMES P.	3,181,284	SIEGEL, DUSTIN S.	3,181,922
SCHNEPP, BRUCE	3,173,768	SHAH, NIYATI LALIT	3,173,481	SIFFERLIN, MARK S.	3,173,202
SCHNYDER, SABINE	3,173,330	SHAH, VIRAJ	3,181,959	SIGVARDSON, JESSICA	3,181,207
SCHONLEIN, MARKUS	3,173,196	SHAHEEN INNOVATIONS HOLDING LIMITED	3,173,508	SIKA TECHNOLOGY AG	3,173,200
SCHONLEIN, MARKUS	3,173,275	SHAKER, MIRNA EKRAM ANWAR	3,173,417	SIKANEN, TIINA	3,173,171
SCHONLEIN, MARKUS	3,173,280	SHANGHAI JUNSHI BIOSCIENCES CO., LTD.	3,173,095	SILVA MANZANO, DANIEL ADRIANO	3,173,628
SCHONLEIN, MARKUS	3,173,335	SHANGHAI QUICKTRON INTELLIGENT	3,173,140	SILVER, MIKIYA	3,173,195
SCHONLEIN, MARKUS	3,173,342	SHANGHAI QUICKTRON TECHNOLOGY CO., LTD	3,173,140	SILVER, MIKIYA	3,173,221
SCHONS, GEORG	3,173,413	SHANGPHARMA INNOVATION INC.	3,181,786	SIMANZHENKOV, VASILY	3,181,387
SCHONS, MARC	3,173,413	SHANNON, ASHLEIGH	3,173,701	SIMPLOT, SCOTT	3,177,290
SCHORGE, STEPHANIE	3,173,181	SHAO, QING	3,181,482	SIMSES, CRAIG	3,173,792
SCHREPFER, SONJA	3,173,096	SHAO, QING	3,181,555	SINCLAIR, ANGUS	3,173,414
SCHRITZ, ANNA ELISABETH	3,181,609	SHAPE THERAPEUTICS INC.	3,173,178	SINGH, ALOK	3,173,208
SCHRODER, TORSTEN	3,173,443	SHAPE THERAPEUTICS INC.	3,173,450	SINGH, CHAAHAT	3,173,073
SCHRODL, CHRISTOPH	3,181,941	SHAPIRO, NATHAN D.	3,181,922	SINGH, INDER RAJ	3,181,608
SCHRODL, CHRISTOPH	3,181,942	SHARED VISION TECHNOLOGY LTD.	3,173,107	SINGLETON, BRIAN DUNN	3,181,195
SCHROEDER, SCOTT D.	3,181,922	SHARMA, AKHILESH	3,181,959	SINHA, SAURABH	3,173,078
SCHUBERT, KEITH E.	3,181,331	SHARMA, PALAK SUSHIL	3,181,340	SINN, PATRICK	3,177,006
SCHUELLER, ALEXANDER	3,173,391	SHAW, CHARLES M.	3,173,468	SIQUEIRA, GERMANO ANDRADE	3,181,926
SCHUESSLER, DAVID J.	3,181,169	SHEARDOWN, HEATHER	3,173,160	SIROTKOVIC, JADRAN	3,173,481
SCHULTZ, CRAIG	3,181,919	SHEEHAN, STAFFORD W.	3,173,600	SISTLA, RAMESH KUMAR	3,167,753
SCHUMACHER, YVONNE	3,181,549	SHEEHAN, STAFFORD W.	3,173,601	SIVAKUMAREN, CARMEN	3,173,819
SCHWARZ, GERHARD	3,181,353	SHEEHAN, STAFFORD W.	3,173,644	SIVIK, MARK ROBERT	3,173,757
SCHWARZ, MARLENE	3,173,792			SKINGLE, RYAN	3,173,401
SCHWERDT, EGBERT	3,173,582			SKIRBLE, BARRY	3,181,544
SCIMAR LTD.	3,173,106			SKOGSTROM, PETER	3,173,592
SCOLNICK, BARBARA	3,173,641			SLAATS, NOUD	3,181,626
				SMEYERS, AXEL ALEXANDER MARIA	3,181,199

Index des demandes PCT entrant en phase nationale

SMITH, ANDREW	3,173,735	STAERZ, UWE D.	3,173,713	SUN, JAMES XIN	3,173,793
SMITH, AUSTIN G.	3,181,213	STAERZ, UWE D.	3,173,714	SUN, LEILEI	3,181,338
SMITH, AUSTIN G.	3,181,214	STAHL-BIDINGER, MARKUS	3,173,582	SUNDARAM, APARNA	3,181,786
SMITH, BRENDEN W.	3,173,513	STAMETS, PAUL E.	3,173,635	SURA, MALLIKARJUN REDDY	3,167,753
SMITH, CHARLES ERIC	3,173,102	STAMPOULOGLOU, ELENI	3,181,340	SUTTON, JOE ALLEN	3,173,214
SMITH, ELLEN S.	3,173,166	STANIFORTH, MARTYN	3,173,092	SUZANO S.A.	3,181,926
SMITH, JAMES JEFFERSON	3,173,245	STANIFORTH, MARTYN	3,173,222	SUZHOU ERSHENG	
SMITH, LAURA JANE	3,173,207	STANIFORTH, MARTYN	3,173,364	BIOPHARMACEUTICAL	
SMITH, SIMON ANDREW	3,181,382	STANTON, MATTHEW G.	3,173,126	CO., LTD	3,173,466
SMITT, MELANIE CAROL	3,182,018	STARKBAUM, ZDENEK	3,173,505	SVENSSON, MATS	3,181,604
SMS GROUP GMBH	3,181,620	STATES, DAVID J.	3,173,190	SWANSON, BARBARA A.	3,173,208
SNOWDEN, TIMOTHY	3,173,652	STATS, JASON R.	3,181,532	SWENSON, ANTHONY W.	3,181,200
SNYDER, ETHAN M.	3,173,448	STAUDINGER, HERIBERT	3,173,330	SWIMC LLC	3,181,603
SNYDER, JESSE WILLIAM	3,181,781	STEBBINS, NATHAN WILSON	3,173,399	SWM LUXEMBOURG	3,173,261
SOBCZAK, JEFFREY J.	3,173,728	STEDFAST INC.	3,173,586	SYKORA, ALEXANDER	3,173,183
SOFFE, JOANNA	3,173,477	STEFANI, BRUNO	3,173,261	SYNEURX INTERNATIONAL	
SOFIA, ANTHONY THOMAS	3,173,093	STEFATER, JAMES		(TAIWAN) CORP.	3,173,720
SOLECHNIK, NICKOLAI	3,173,493	ANTHONY, III	3,173,472	SYRIVELIS, DIMITRIOS	3,173,088
SOLECHNIK, NICKOLAI	3,173,494	STEIN, KEVIN CHRISTOPHER	3,173,450	SZAPARY, PHILIPPE	3,181,949
SOLEM, JONAS	3,173,223	STELZER, TARYN	3,181,918	SZEINIG, KRZYSZTOF	3,173,384
SOLOMONS, NEIL	3,181,952	STENGLEIN, CHRISTIAN	3,181,372	SZEINIG, KRZYSZTOF	3,173,386
SOLOVEVA, VERONICA	3,173,172	STEPAN COMPANY	3,173,665	SZEINIG, KRZYSZTOF	3,173,390
SOLSTAD, TERESE	3,173,175	STEPHAN, DIETRICH A.	3,173,504	SZYKOWNY, ANDRZEJ	3,173,384
SOLVAY SA	3,173,433	STEPHENS, FRANCESCA		SZYKOWNY, ANDRZEJ	3,173,386
SOMMADOSSI, JEAN-PIERRE	3,173,701	ALYS	3,173,485	SZYKOWNY, ANDRZEJ	3,173,390
SOMMER, MORTEN	3,173,163	STEVENS, HEATHER BLYTHE	3,165,187	SZYMANIAK, ADAM	3,173,354
SONG, HYUNG NAM	3,173,310	STIBICH, MARK	3,173,614	TAGGI, ANDREW EDMUND	3,181,219
SONG, WENBO	3,181,482	STIRLAND, DARREN	3,173,160	TAHKA, SARI	3,173,171
SONG, WENBO	3,181,555	STOCK, AARON	3,181,359	TAI, TAMMY	3,173,792
SONI, NEHA	3,181,399	STOCKLIN, LUTZ	3,181,641	TAILLON, MICHEL	3,173,155
SONOS, INC.	3,176,129	STOKE THERAPEUTICS, INC.	3,173,647	TAIMI R&D INC.	3,173,155
SORENSEN, ESSEN LAUGE	3,173,638	STOLLE, THERESA	3,173,239	TAIZHOU YONGPAI PACK	
SORRENTO THERAPEUTICS,		STOLLE, THERESA	3,173,346	EQUIPMENT CO., LTD.	3,173,454
INC.	3,173,208	STOLTZ, MICHAEL	3,181,191	TAJIRI, KAZUNORI	3,173,296
SORRENTO THERAPEUTICS,		STOLTZFUS, DANI	3,173,504	TAJIRI, KAZUNORI	3,173,753
INC.	3,173,611	STONE, GEOFFREY WILLIAM	3,181,197	TAKAHASHI, HIDEHARU	3,181,008
SOTGIA, FEDERICA	3,181,794	STONE, MICHELE	3,173,768	TAKAHASHI, HIDENORI	3,181,604
SOUDIER, JEROME	3,173,200	STONE, SOPHIA GABRIELLE		TAKAHASHI, NORIYUKI	3,173,519
SOURIOU, DAVID	3,173,420	CONTRERAS	3,173,426	TAKAMATSU, SHIORI	3,173,510
SOYA, TAKANORI	3,181,042	STOPFORTH, JARRET	3,173,468	TAKAOKA, YUKIHISA	3,181,554
SPACHTHOLZ, FRANZ XAVER	3,173,017	STOREK, MICHAEL	3,173,325	TAKASHITA, TAKUYA	3,173,101
SPALDING, JOSEPH JEROME	3,181,467	STRAND, ROSS	3,181,217	TAKEDA PHARMACEUTICAL	
SPANOUDIS, CATHERINE	3,181,417	STRATMANN, MAIK	3,173,117	COMPANY LIMITED	3,173,129
SPARTA SOFTWARE		STREIT, ELISABETH	3,173,395	TAKEDA PHARMACEUTICAL	
CORPORATION	3,181,541	STRICKLAND, LEILA	3,173,396	COMPANY LIMITED	3,173,709
SPEEDX PTY LTD	3,181,184	STRIEKER, MATTHIAS	3,173,131	TAKIZAWA, MAMORU	3,181,553
SPENCER, RYAN KELLY	3,173,417	STRIKE PHARMA AB	3,181,617	TAL, MICHAEL GABRIEL	3,182,025
SPIDEROAK, INC.	3,173,159	STRODIOT, LAURENT	3,181,627	TAN, ALAN	3,173,360
SPIESSHOFER, THOMAS	3,181,342	STROPHAIR, ORIOL	3,173,290	TAN, HOCK S.	3,173,322
SPM OIL & GAS INC.	3,173,214	STROYECK, CHUCK	3,181,181	TANG, DAN	3,173,140
SPREITER, GREGOR	3,181,549	STRUM, JAY COPELAND	3,173,678	TANG, DORIS T.	3,181,922
SQUIRE, JACOB THACKERAY	3,181,792	STRYJEWski, TOMASZ		TANGARA, SALIA	3,173,458
SRIRAM, SHARATH	3,173,412	PAWEL	3,173,472	TANIGUCHI, YUKIMASA	3,181,553
ST-HILAIRE, SIMON	3,173,716	STUDENIKIN, SERGEI	3,181,928	TANIS, VIRGINIA	3,181,676
ST-PIERRE, GABRIELLE	3,181,213	STUMPFIG, THOMAS	3,181,336	TANIS, VIRGINIA M.	3,181,793
ST. JOHN, SAMUEL JAMES	3,181,210	SUBBIAH KARUPPIAH, ARUL		TAPIA, EMILIO ANTONIO	
ST. JOHN, SAMUEL JAMES	3,181,212	MOZHI	3,167,753	MERCADO	3,173,646
ST. JOHN, SAMUEL JAMES	3,181,217	SUCHET, STEPHANE	3,173,816	TARAZONA, JUDITH	3,173,186
ST. JOHN, SAMUEL JAMES	3,181,344	SUDAK, MATTHEW	3,181,576	TARRY, MICHAEL JOHN	3,173,244
ST. JOHN, SAMUEL JAMES	3,181,345	SUI, SIGUANG	3,173,820	TASIC, BOSILJKA	3,173,609
ST. JOHN, SAMUEL JAMES	3,181,915	SUI, SIYAO	3,173,667	TAVERNER, YOLANDA	3,173,418
ST. JOHN, SAMUEL JAMES	3,181,916	SUI, XIANGKUN	3,173,585	TAVERNIER, BERNARD	3,181,925
STAAB, JARED	3,173,215	SULLIVAN, MATTHEW	3,173,109	TAYLOR, BENJAMIN	3,173,824
STAERZ, UWE D.	3,173,711	SUMMERSETT, NICOLE Z.	3,173,765	TAYLOR, CORY	3,181,919

Index of PCT Applications Entering the National Phase

TAYLOR, FRED	3,173,430	THE HENRY M. JACKSON	THE UNIVERSITY OF TOKYO	3,182,001
TAYLOR, RYAN	3,176,129	FOUNDATION FOR THE	THEKKEVAVANOOR,	
TAYLOR, VANESSA	3,173,432	ADVANCEMENT OF	SWARAN	3,173,495
TAYLOR, WESLEY P.	3,173,232	MILITARY MEDICINE,	THEROND, ALEXANDRE	3,173,463
TCHUPP GMBH	3,176,500	INC.	THISCAP, INC.	3,173,689
TECHTRONIC CORDLESS GP	3,173,474	THE J. DAVID GLADSTONE	THOMAS, ANDREW S.	3,181,369
TECNAR AUTOMATION LTEE	3,173,707	INSTITUTES, A	THOMAS, GEORGIA	3,173,182
TEDROW, JASON S.	3,181,189	TESTAMENTARY TRUST	THOMAS, MICHAEL	3,173,385
TEGELER, TONY	3,181,609	ESTABLISHED UNDER	THOMPSON, DANIEL JOHN	3,173,182
TEILLOL, NICOLAS	3,173,463	THE WILL OF J. DAVID	THUERING, JOHANNES	
TEKERLEK, KORKUT	3,181,600	GLADSTONE	ANTON	3,181,544
TELTHORSTER, DIRK	3,173,165	THE PENN STATE RESEARCH	TICEBA GMBH	3,181,591
TENG, MINGXING	3,173,777	FOUNDATION	TIGHE, MARTIN	3,173,107
TENG, Y.K. ONNO	3,181,952	THE PROCTER & GAMBLE	TILY, HAL	3,173,672
TEON THERAPEUTICS, INC.	3,181,538	COMPANY	TING, JONATHAN	3,173,609
TERAXION INC.	3,173,623	THE PROCTER & GAMBLE	TINO, JOSEPH A.	3,167,753
TEREX SOUTH DAKOTA, INC.	3,173,578	COMPANY	TIRUTHANI, KARTHIK	3,173,800
TERLECKY, PETER M.	3,173,481	THE PROCTER & GAMBLE	TITTERINGTON, BEN	3,181,648
TERPHANE LLC	3,173,166	COMPANY	TOCKERT, PAUL	3,181,620
TERRY, JEFFREY		THE PROCTER & GAMBLE	TODD, ALISON VELYIAN	3,181,184
RICHARDSON	3,173,675	COMPANY	TODD, RICHARD	3,173,292
TESFATSION, BINIAM	3,173,372	THE PROCTER & GAMBLE	TOFT-KEHLER, ANNE	
TESFATSION, BINIAM	3,173,499	COMPANY	KATRINE	3,173,163
TESFATSION, BINIAM	3,173,500	THE PROCTER & GAMBLE	TOFT-KEHLER, RASMUS	3,173,163
TESFATSION, BINIAM	3,173,501	COMPANY	TOKYO INSTITUTE OF	
TESFATSION, BINIAM	3,173,503	THE PROCTER & GAMBLE	TECHNOLOGY	3,181,008
TESFATSION, BINIAM		COMPANY	TOMBA, EMANUELE	3,181,627
FESSEHAYE	3,173,488	THE PROCTER & GAMBLE	TOMBERLIN, GINGER H.	3,173,245
TESTA, MAURO	3,181,653	COMPANY	TOMEI, ALICE A.	3,181,359
TEWARI, ANEESHA	3,181,389	THE PROCTER & GAMBLE	TOMITA, ISAO	3,173,751
TEWES, BERNHARD	3,173,812	COMPANY	TONIX PHARMACEUTICALS	
TEXTORIS, JULIEN	3,173,822	THE PROCTER & GAMBLE	HOLDING CORP.	3,182,014
THADHANI, RAVI	3,181,533	COMPANY	TONIX PHARMACEUTICALS,	
THANGATHIRUPATHY,		THE PROCTER & GAMBLE	INC.	3,182,014
SRINIVASAN	3,167,753	COMPANY	TOPSOE A/S	3,173,638
THAO, DOUA	3,181,361	THE PROCTER & GAMBLE	TORAY INDUSTRIES, INC.	3,181,042
THARAKAN, MARSHA T.	3,181,788	COMPANY	TORMANEN, HANNU	3,181,941
THE BOARD OF REGENTS OF		THE REGENTS OF THE	TORRES ESPINOSA, ALBA Y.	3,173,673
THE UNIVERSITY OF		UNIVERSITY OF	TOSTENSON, TAL A.	3,181,200
TEXAS SYSTEM	3,181,168	CALIFORNIA	TOTALENERGIES ONE TECH	3,173,693
THE BOARD OF TRUSTEES OF		THE REGENTS OF THE	TOURETTE, CENDRINE	3,173,112
THE LELAND STANFORD		UNIVERSITY OF	TOURTOIS, JOSEPH	3,181,913
JUNIOR UNIVERSITY	3,173,124	CALIFORNIA	TOUTI, FAYCAL	3,181,048
THE BOEING COMPANY	3,181,914	THE REGENTS OF THE	TOUTI, FAYCAL	3,181,049
THE BROAD INSTITUTE, INC.	3,181,623	UNIVERSITY OF	TOUTI, FAYCAL	3,181,164
THE CHANCELLOR,		CALIFORNIA	TRACZ, MICHAEL	
MASTERS AND		THE ROYAL INSTITUTION	CHRISTOPHER	3,181,467
SCHOLARS OF THE		FOR THE	TRAINOR, MICHAEL	3,173,601
UNIVERSITY OF		ADVANCEMENT OF	TREES, JASON	3,173,240
CAMBRIDGE OF THE		LEARNING/MCGILL	TREMBLAY, SEBASTIEN	3,173,155
OLD SCHOOLS	3,181,914	UNIVERSITY	TREPANIER, FRANCOIS	3,173,623
THE CHILDREN'S MEDICAL		THE TEXAS A&M	TRIANAFILLOU, SOTIRIOS	3,173,624
CENTER CORPORATION	3,173,780	UNIVERSITY SYSTEM	TRIKHA, NITESH	3,173,471
THE CHILDREN'S MEDICAL		THE TRANSLATIONAL	TRIKHA, NITESH	3,173,667
CENTER CORPORATION	3,181,413	GENOMICS RESEARCH	TRIPP, RALPH A.	3,173,187
THE DNA COMPANY INC.	3,173,421	INSTITUTE (TGEN)	TRITSCHLER, MATTHIAS	3,181,641
THE GILLETTE COMPANY		THE TRUSTEES OF INDIANA	TRIUMVIRA IMMUNOLOGICS	
LLC	3,181,363	UNIVERSITY	USA, INC.	3,173,810
THE GOVERNMENT OF THE		THE UNIVERISITY OF	TRIVEDI, RISHI	3,181,397
UNITED STATES, AS		SYDNEY	TROEDSSON-WARGELIUS,	
REPRESENTED BY THE		THE UNIVERSITY OF KANSAS	ANNA	3,173,806
SECRETARY OF THE		THE UNIVERSITY OF NORTH	TROGU, FRANCESCO H.	3,173,116
ARMY	3,173,172	CAROLINA AT CHAPEL	TROUTMAN, SARAH MARIE	3,165,187
		HILL		

Index des demandes PCT entrant en phase nationale

TRUMA GERATETECHNIK GMBH & CO. KG	3,175,812	UNIVERSITE SAVOIE MONT BLANC	3,173,449	VEILLET, STANISLAS	3,173,112
TRUMA GERATETECHNIK GMBH & CO. KG	3,176,351	UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION, INC.	3,181,177	VEITS, GESINE KERSTIN	3,165,309
TRUMA GERATETECHNIK GMBH & CO. KG	3,176,378	UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.	3,173,187	VEITS, GESINE KERSTIN	3,173,629
TSAI, GUOCHUAN EMIL	3,173,720	UNIVERSITY OF HELSINKI	3,173,171	VENET, FABIENNE	3,173,822
TSAI, I-FANG	3,173,603	UNIVERSITY OF MIAMI	3,173,245	VENKATESH, ADITYA	3,173,647
TSINGHUA UNIVERSITY	3,181,482	UNIVERSITY OF MIAMI	3,181,359	VERDANT TECHNOLOGIES, LLC	3,181,375
TSINGHUA UNIVERSITY	3,181,555	UNIVERSITY OF SOUTHERN CALIFORNIA	3,181,427	VERDANT TECHNOLOGIES, LLC	3,181,379
TSOUMPAS, IOANNIS	3,181,627	UNIVERSITY OF WASHINGTON	3,173,137	VERDIER, MORGAN	3,173,627
TSUI, WAI YI	3,173,453	UNIVERSITY, OF IOWA RESEARCH FOUNDATION	3,177,006	VERSA POWER SYSTEMS LTD	3,173,243
TURAKULOV, LAZIZ	3,173,231	UOP LLC	3,173,203	VERSA POWER SYSTEMS LTD	3,173,708
TURAKULOV, LAZIZ	3,173,233	UPKARA, INC.	3,173,418	VESTARON CORPORATION	3,181,913
TURAKULOV, LAZIZ	3,173,234	UPL LIMITED	3,181,551	VESTERGAARD-FRANSEN, MIKKEL	3,173,774
TURAKULOV, LAZIZ	3,173,235	UPNANO GMBH	3,173,332	VESTLANDETS INNOVASJONSSKAP AS	3,173,806
TURAKULOV, LAZIZ	3,173,238	UPPALAPATI, KRISHNA KIRAN	3,173,407	VETAGRO INTERNATIONAL S.R.L.	3,181,951
TURAN, HUSEYIN	3,173,117	UPPALAPATI, SRINIVASA RAO	3,181,219	VIALLE, SANDRINE	3,173,518
TURNER, SCOTT	3,173,761	UPRETY, NADIMA	3,181,774	VIASAT INC.	3,173,457
TURTLE BEAR HOLDINGS, LLC	3,173,635	URBANSKI, JOHN PAUL	3,173,132	VIEIRA DA CRUZ, ANAIS	3,173,458
TURTLE, CAMERON J.	3,173,210	URBANSKI, JOHN PAUL	3,173,440	VIEIRA, RICHEL TELES	3,181,926
TUTTLE, JAMISON BRYCE	3,181,415	URYU, KUNIHURO	3,173,111	VIEW, INC.	3,173,471
TWESTEN, CHRISTOPH	3,173,443	USAITIS, VYTAUTAS	3,173,683	VIEW, INC.	3,173,667
TYLER J, HANDLEY	3,173,794	UTI LIMITED PARTNERSHIP	3,181,381	VIGNEAULT, FRANCOIS	3,173,450
TYLER, BRANDON	3,173,440	UTZ, BEGUM	3,173,671	VIGNUZZI, MARCO	3,173,158
UATC, LLC	3,173,446	VAGLI, MAURIZIO	3,173,634	VIJAYAKUMAR, PREMA	3,181,336
UAVPATENT CORP.	3,181,569	VAHDAT, DANOOSH	3,181,208	VILINSKA, ANNAMARIA	3,173,686
UBER, ARTHUR, III	3,181,544	VALDES, ALEXANDER	3,181,676	VILLANUEVA, CHARLIE	3,173,131
UCL BUSINESS LTD.	3,173,181	VALEUR, ERIC BRUNO	3,173,399	VILLANUEVA, DINARA	3,173,792
UDDIN, ALA	3,173,675	VALIMAA, LASSE	3,173,671	VINCENT, JACQUES	3,173,655
UDP LABS, INC.	3,173,464	VALLET, THOMAS	3,173,158	VINSON, PHILLIP KYLE	3,173,147
UDP LABS, INC.	3,173,469	VALMET AB	3,181,201	VINTOLA, TOMI	3,173,340
UIJTTEWAAL, ESTHER C.H.	3,173,189	VAN DE GROENENDAAL, MICHIEL	3,173,620	VINTOLA, TOMI	3,173,529
ULRICH, JOHN	3,173,286	VAN DEN BOOMEN, BENNY PETRUS LAMBERTUS MARTINUS	3,173,416	VINTOLA, TOMI	3,173,824
ULRICH, JOHN	3,173,705	VAN DEN HURK, NICK FRANCISCUS JOHANNES	3,173,416	VIOME LIFE SCIENCES, INC.	3,173,672
UM NLEND, INGRID	3,173,739	VAN DOORNE, LUC	3,173,156	VIRGIN FRUIT, INC.	3,173,188
UM NLEND, INGRID	3,173,794	VAN HOORN, WILLEM PAUL	3,181,790	VLEPIS SOLUTIONS PTY LTD	3,173,412
UMEMURA, SHUHEI	3,181,604	VAN HOORN, WILLEM PAUL	3,181,790	VOEGTLI, WALTER C.	3,173,631
UNION THERAPEUTICS A/S	3,173,163	VAN LIESHOUT, LAURA	3,173,207	VOGTENTANZ, GUDRUN	3,173,395
UNIS, DOUGLAS B.	3,182,020	VAN MECHELEN, MARCELLE	3,181,368	VOLK, JAMES JOSEPH	3,173,430
UNIVERSITA DEGLI STUDI DI MILANO	3,173,152	VAN RAMPENBERGH, JEAN	3,181,368	VOLONT, CEDRIC JOSEPH	3,173,757
UNIVERSITA DEGLI STUDI DI TRENTO	3,173,357	VAN ROOSMALEN, LINDA	3,181,544	VOVOS, ROBERT J.	3,181,405
UNIVERSITA' DEGLI STUDI DI PERUGIA	3,173,357	VANDER ELST, LUC	3,181,368	VOYTEK, THOMAS J.	3,173,242
UNIVERSITA' DEGLI STUDI MILANO	3,173,157	VANDER VEEN, MICHAELA	3,173,415	VUKOVIC, MAJA	3,173,078
UNIVERSITE BREST BRETAGNE		VANDERWEL, ZACHARY RALPH	3,173,323	VULOVIC, IVAN	3,173,137
UNIVERSITE BREST OCCIDENTALE	3,173,420	VAREKAMP, CHRISTIAAN	3,181,605	VUYISICH, MOMCHILO	3,173,672
UNIVERSITE DE LIMOGES	3,173,718	VARELA, RUTH A.	3,173,397	VXBIOSCIENCES, INC.	3,181,803
UNIVERSITE DE MONTPELLIER	3,091,457	VARGA, CHRISTOPHER M.	3,173,113	VYAIR MEDICAL, INC.	3,173,113
UNIVERSITE DE REIMS CHAMPAGNE- ARDENNES	3,173,693	VARGAS MORENO, ALDO ENRIQUE	3,173,169	W.C. BRADLEY CO.	3,181,563
UNIVERSITE GRENOBLE ALPES	3,173,449	VARJOS, ILKKA	3,181,347	WACHOWICZ, REBECCA J.	3,173,492
UNIVERSITE GRENOBLE ALPES	3,173,458	VEGA-JIMENEZ, BYRON	3,181,219	WACKERLY, RYAN STEVEN	3,173,497
UNIVERSITE GRENOBLE ALPES	3,173,560			WAGNER, MICHAEL	3,173,517
				WAGNER, PHILLIP PATRICK	3,181,541
				WALGRAFFE, DAVID	3,181,368
				WALKER, BLAIR C.	3,173,686
				WALKER, MATTHEW CHARLES	3,173,181
				WALKER, MATTHEW JAMES	3,173,628
				WALKING FISH THERAPEUTICS	3,173,480
				WALLIN, ERIK	3,181,201

Index of PCT Applications Entering the National Phase

WALLINGTON, MATTHEW		WELCH, MICHAEL BRIAN	3,173,569	WONFOR, ADRIAN	3,181,914
ROBERT	3,181,783	WELLS, FELIX HUGO	3,173,612	WONG, HING C.	3,181,417
WALMART APOLLO, LLC	3,173,331	WENCK, JAMES M.	3,173,430	WONG, KAR TAT	3,173,474
WALMART APOLLO, LLC	3,173,481	WERKHEISER, GREGORY		WOOD, WILLARD E.	3,181,375
WALRAVENS, WOUTER	3,173,757	THOMAS	3,181,366	WOODLE, GUY B.	3,173,203
WALSH, RYAN	3,181,597	WERNER, JOERG	3,181,613	WOODMAN, TOM	3,173,375
WALSH, RYAN	3,181,602	WERTZ, CHRISTIAN F.	3,181,361	WOODMAN, TOM	3,173,388
WALTER, ROLAND B.	3,173,205	WEST VIRGINIA UNIVERSITY		WOODMAN, TOM	3,173,389
WALTER, ROLAND B.	3,173,210	BOARD OF GOVERNORS		WOODMAN, TOM	3,173,489
WALTER, ROLAND B.	3,173,213	ON BEHALF OF WEST		WOODS, CRAIG	3,181,676
WALTERS, AUSTIN	3,173,621	VIRGINIA UNIVERSITY	3,173,456	WORKS, MELISSA	3,181,399
WALTON, ZACHARY		WEST.NEDER.LAND.		WRIGHT, DANIEL	3,173,685
WILLIAM	3,181,366	SANDWICH PANELEN		WU, BAIBO	3,173,703
WANG, BIAO	3,173,179	B.V.	3,173,620	WU, BENJAMIN	3,165,187
WANG, CHAO	3,173,461	WESTENBERG, SAMUEL		WU, CONGYANG	3,181,939
WANG, CHAO	3,173,470	THEODORE	3,173,116	WU, HELEN HAIXIA	3,181,776
WANG, CHAO	3,173,649	WESTER, NIKLAS	3,181,347	WU, HUIWEN	3,173,176
WANG, CHUQING	3,173,667	WESTMEYER, MARK D.	3,173,728	WU, KOUGEN	3,181,338
WANG, ERIC	3,173,777	WESTROCK PACKAGING		WU, XIUFENG	3,173,162
WANG, ERIC	3,173,819	SYSTEMS, LLC	3,173,463	WU, YIPENG	3,173,367
WANG, GUOQIANG	3,173,333	WETZEL, ALEXANDER	3,173,275	WU, YUHONG	3,173,631
WANG, HANJUN	3,173,611	WETZEL, ALEXANDER	3,173,335	WYLIE, BRET	3,181,330
WANG, JIAN (DECEASED)	3,181,420	WHARTON, JONATHAN		XENEX DISINFECTION	
WANG, JIAN	3,173,755	ANDREW	3,173,652	SERVICES INC.	3,173,614
WANG, JIANWEI	3,173,367	WHITE, DELLA M.	3,181,776	XIA, SHUKAI	3,173,201
WANG, JING	3,181,413	WHITE, IAN	3,181,914	XIAO, JIN	3,173,078
WANG, LIJIA	3,165,187	WHITE, YVONNE	3,173,207	XIAO, MIKE	3,173,128
WANG, LIMIN	3,173,460	WHITEAKER, JEFFREY	3,181,609	XIAO, MIKE	3,173,138
WANG, LING	3,173,810	WHITELONIS, NICHOLAS	3,173,614	XIAO, MIKE	3,173,180
WANG, MINGHAN	3,173,176	WHITTAKER, MARK	3,173,196	XIE, LIANXIANG	3,181,579
WANG, MU	3,173,147	WIACEK, JOHN	3,181,781	XING, LICONG	3,181,939
WANG, RONGLIANG	3,181,598	WICHMANN, JUERGEN	3,173,629	XING, XUECHAO	3,173,333
WANG, RUEN	3,181,337	WIDGEROW, ALAN DAVID	3,173,279	XIONG, KE	3,173,577
WANG, RUIBO	3,173,685	WIDJAJA, TIEN	3,173,569	XU, HONG	3,173,585
WANG, WENWEI	3,173,514	WIELAND, MARCO JAN-JACO	3,173,642	XU, JIAYI	3,181,537
WANG, XIANG	3,173,703	WIELAND-WERKE AG	3,173,887	XU, KAI	3,173,577
WANG, XINHAO	3,173,140	WIESCONCEPTS, LLC	3,173,669	XU, KAI	3,173,645
WANG, XUNQIANG	3,181,598	WIESMAN, JON	3,173,669	XU, KAI	3,173,684
WANG, YAN	3,181,197	WIGGINTON, JON MARC	3,181,535	XU, KAI	3,173,703
WANG, YULEI	3,165,187	WILHELM, RUDOLF	3,173,812	XU, LIHUI	3,173,557
WANG, YUTAO	3,181,482	WILLIAMS, AARON M.	3,173,765	XU, QING	3,181,577
WANG, YUTAO	3,181,555	WILLIAMS, LEWIS T.	3,173,480	XU, QING	3,181,583
WANG, ZHUORAN	3,173,418	WILLIAMS, NORI	3,173,484	XU, SHIYUAN	3,181,337
WAREING, PAUL	3,181,648	WILLIAMS, PATRICK		XU, YANXIA	3,173,804
WARGACHUCK, RICHARD	3,171,363	GEORGES ROBERT	3,165,187	XU, ZHILIANG	3,181,335
WARNEKE, SPENCER	3,173,442	WILLIAMS, ROBIN	3,181,928	XU, ZHIYU	3,181,939
WARNER, JOSEPH ROY	3,173,509	WILLIBY, GREGORY	3,181,796	XUE, JIAFU	3,173,514
WARREN, LUKE	3,173,385	WILLIFORD, JOHN-MICHAEL	3,181,399	XUE, XIAOHUA	3,181,418
WARREN, LUKE	3,173,824	WILLOWPURE, LLC	3,181,195	XUE, XIAOHUA	3,181,676
WARSZAWSKI		WILLOWS, ROBERT	3,173,184	XUE, XIAOHUA	3,181,793
UNIWERSYTET		WILLWACHER, JENS	3,181,350	XYLEM WATER SOLUTIONS	
MEDYCZNY	3,173,643	WILSIUS, JOEL	3,181,644	ZELIENOPLE LLC	3,181,576
WEBER, BARBARA	3,173,395	WIMBY, MARTIN	3,181,201	YAMAMOTO, NAOAKI	3,173,321
WEBER, ELMAR	3,181,342	WINTHER, MICHAEL DAVID	3,173,799	YAMASHITA, SHIN	3,181,185
WEBSTER, BENJAMIN T.	3,181,405	WISCHIK, CLAUDE MICHEL	3,181,388	YAMASHITA, SHIN	3,181,188
WEI, GRACE	3,173,482	WISCHIK, CLAUDE MICHEL	3,181,391	YAMASHITA, SHIN	3,181,190
WEI, QUNLI	3,173,514	WISCHIK, CLAUDE MICHEL	3,181,393	YAN, LIXIN	3,181,337
WEI, XIN	3,181,796	WISSNER, REBECCA	3,173,130	YAN, YIBING	3,165,187
WEIGHT, ALISHA	3,173,792	WISTA LABORATORIES LTD.	3,181,388	YANCEY, DENNIS DWAYNE	
WEINBERG, DAVID	3,181,389	WISTA LABORATORIES LTD.	3,181,391	JR.	3,173,615
WEINBERGER, LEOR S.	3,181,803	WISTA LABORATORIES LTD.	3,181,393	YANG, ANQI	3,181,598
WEISINGER, KAREN	3,173,513	WOLFE, PATRICK SHANE	3,173,665	YANG, GUANGWEI	3,181,776
WEISSMAN, IRVING L.	3,173,124	WONDERLAND		YANG, HAI	3,181,922
WELCH, GREGORY C.	3,181,381	SWITZERLAND AG	3,173,448	YANG, HAORUI	3,173,434

Index des demandes PCT entrant en phase nationale

YANG, HAOZHE	3,173,684	ZAWADZKI, PIOTR	3,181,928	ZHOU, YAO	3,181,482
YANG, HAOZHE	3,173,703	ZEHNDER, JULIA	3,173,183	ZHOU, YAO	3,181,555
YANG, JOONMO	3,173,585	ZEID, RHAMY	3,165,309	ZHS IP EUROPE SARL	3,173,177
YANG, WEI	3,173,140	ZEILINGER, TODD ANDREW	3,173,765	ZHU, CHUNSHENG	3,181,338
YANG, YIA	3,181,361	ZEKRI, LATIFA	3,173,151	ZHU, DONGQING	3,173,095
YANTAI JEREH EQUIPMENT & TECHNOLOGIES CO., LTD.	3,173,367	ZELIC, MATIJA	3,173,330	ZHU, KANGYING	3,181,191
YAO, SHUGANG	3,171,363	ZELOS ENERGY LTD.	3,181,172	ZHU, XIAO	3,167,753
YAO, XIN	3,181,788	ZENG, HONGKUI	3,173,609	ZHU, XIAOYUN	3,181,417
YAP, JEREMY L.	3,165,309	ZENG, MING	3,173,652	ZHU, ZHENG DONG	3,167,753
YAP, JEREMY L.	3,173,629	ZEVALLOS, JOSE P.	3,181,788	ZIELAZEK, PAWEL	3,173,384
YATES, CLAIRE REBECCA	3,173,757	ZHAN, BI-ZENG	3,182,010	ZIELAZEK, PAWEL	3,173,386
YE, JIHONG	3,181,365	ZHANG, AIJING	3,165,187	ZIELAZEK, PAWEL	3,173,390
YE, ZHENG	3,174,241	ZHANG, BING	3,181,589	ZIMMER, GUNTHER	3,173,595
YEDA RESEARCH AND DEVELOPMENT CO. LTD.	3,173,679	ZHANG, CHUANGUO	3,181,338	ZIMMER, MARTIN	3,173,595
YEE, CALVIN WESLEY	3,181,583	ZHANG, DEQIANG	3,173,509	ZIMMER, ROBIN D.	3,181,414
YELENSKY, ROMAN	3,173,793	ZHANG, GE	3,181,939	ZOU, FASHENG	3,181,482
YEN, KELVIN	3,181,427	ZHANG, JIAJUN	3,173,333	ZOU, HONGZHI	3,181,473
YERMAKOV, IHOR	3,173,084	ZHANG, JIAYI	3,181,882	ZOU, HUI	3,173,176
YILMAZ, UGURHAN	3,173,487	ZHANG, JING	3,181,939	ZOU, YANGWEI	3,173,140
YILMAZ, UGURHAN	3,173,499	ZHANG, MINGMING	3,181,166	ZOUAOU, RADOUANE	3,182,023
YILMAZ, UGURHAN	3,173,500	ZHANG, PENG	3,173,367	ZSISKA, MARIANNE	3,181,212
YILMAZ, UGURHAN	3,173,501	ZHANG, QI	3,181,482	ZTE CORPORATION	3,181,205
YILMAZ, UGURHAN	3,173,503	ZHANG, QI	3,181,555	ZUCKER, IRVING H.	3,173,611
YIN, BEI	3,181,397	ZHANG, QINGZHAN	3,181,340	ZUKAUSKAS, ANDREW R.	3,173,513
YIN, NING	3,165,309	ZHANG, RIKUI	3,173,367	ZYMTRONIX CATALYTIC SYSTEMS, INC.	3,173,419
YIVGI-OHANA, NATALIE	3,173,425	ZHANG, SHU'AN	3,173,577		
YOHANAN, ZIV	3,181,777	ZHANG, SHU'AN	3,173,645		
YOLDAS, BULENT	3,181,932	ZHANG, TINGHU	3,173,679		
YONG, ZHEE MIN JIMMY	3,173,823	ZHANG, TINGHU	3,173,777		
YOON, BYOUNG HOON	3,173,133	ZHANG, TINGHU	3,173,819		
YOSHII, TOMOHIKO	3,181,008	ZHANG, TONGXUAN	3,181,337		
YOSHIMORI, TAKASHI	3,173,321	ZHANG, WEN-CHUN	3,181,419		
YOSHIZAKI, TOMOYA	3,181,042	ZHANG, XIAOMENG	3,181,555		
YOST, SHAWN	3,173,799	ZHANG, XIAOSONG	3,165,187		
YOU, INCHUL	3,173,679	ZHANG, XINLI	3,181,328		
YOUNG, ANDREW	3,173,378	ZHANG, XINLI	3,181,436		
YOUNG, DAVID S.	3,171,363	ZHANG, XIQUAN	3,181,579		
YOUNG, STEVEN JAY	3,173,464	ZHANG, XIQUAN	3,181,589		
YOUNG, STEVEN JAY	3,173,469	ZHANG, XIQUAN	3,181,598		
YOUNGER, DAVID	3,173,351	ZHANG, XUEJIAO	3,173,804		
YU, DING	3,181,598	ZHANG, YAN	3,173,804		
YU, HAIYANG	3,173,475	ZHANG, YAN	3,181,604		
YU, JIANMING	3,173,354	ZHANG, YUNING	3,181,585		
YU, MIAO	3,181,384	ZHANG, ZHEWEN	3,181,579		
YU, ROBERT T.	3,173,629	ZHANG, ZHIHONG	3,181,335		
YU, TAO	3,181,166	ZHANG, ZIQIAN	3,181,380		
YU, YINTAO	3,173,212	ZHAO, DALIAN	3,173,755		
YU, YINTAO	3,173,220	ZHAO, JEAN JIANQIN	3,181,421		
YUAN, CHIH-CHI	3,173,399	ZHAO, JIANGRAN	3,173,684		
YUAN, HAO	3,181,482	ZHAO, PENG	3,173,514		
YUAN, HAO	3,181,555	ZHAO, RONGSONG	3,181,473		
YUCIUS, KRISTINA	3,181,198	ZHAO, WEI	3,181,579		
YUN, QUANXIN	3,181,585	ZHAO, WEI	3,181,589		
YUN, SANG HOON	3,173,310	ZHAO, WUCHAO	3,181,365		
ZADEL, CHRISTOPHER J.	3,173,105	ZHAO, YIRU	3,181,558		
ZAGOZDZON, RADOSLAW	3,173,643	ZHENG, JINGWEN	3,173,607		
ZAHEDI, MOHAMMAD MEHDI	3,181,782	ZHENG, LEI	3,181,338		
ZAMANI, SHAHRAM	3,181,777	ZHENG, LIGANG	3,181,937		
ZANG, GUANGXI	3,173,676	ZHENG, YAJUN	3,173,761		
ZAVERI, JAY	3,181,171	ZHIYONG, ZHENG	3,173,340		
		ZHOU, DAHUI	3,181,415		
		ZHOU, HEYUE	3,173,208		
		ZHOU, KEMING	3,181,546		
		ZHOU, RU	3,181,415		

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

10353744 CANADA LTD.	3,181,759	FRAUNHOFER-	MONSANTO TECHNOLOGY	
ABTECH INDUSTRIES, INC.	3,181,074	GESELLSCHAFT ZUR	LLC	3,181,871
ABTECH INDUSTRIES, INC.	3,181,082	FORDERUNG DER	MORRISON, JOHN W.	3,181,050
ALTRIA CLIENT SERVICES		ANGEWANDTEN	MURAKAMI, NOBUYUKI	3,181,840
LLC	3,181,428	FORSCHUNG E.V.	NEUMANN, JOHANNES	3,181,440
ANDERSON, JOHN D.	3,181,900	FRIESEN, CODY	NEWMAN, STEPHEN D.	3,181,087
APFELBACHER, ANDREAS	3,181,440	GOOGLE LLC	NYAT PENG WONG, SARAH	3,181,327
ARIZONA BOARD OF		GPCP IP HOLDINGS LLC	OLSON, WILLIAM C.	3,181,096
REGENTS ON BEHALF OF		GPCP IP HOLDINGS LLC	OUADI, MILOUD	3,181,440
ARIZONA STATE		GREEN, BRENT E.	PANTHER, GYLES	3,181,542
UNIVERSITY	3,181,728	HADAL, INC.	PANTHER, GYLES	3,181,550
BADER, PATRICK-MARTIN	3,181,327	HAUTCOEUR, JULIEN	PEACH, WALTER J.	3,181,900
BAO, LIN	3,181,424	HAUTCOEUR, JULIEN	PEARCE, MICHAEL D.	3,181,766
BECHER, DAVID Z.	3,181,871	HENDRICKSON, CRISTOPHER	PHILLIPS, DAVID	3,181,428
BELITZ, PAUL	3,181,696	HORNUNG, ANDREAS	PSMA DEVELOPMENT	
BILLMAIER, DAVID	3,181,807	HOSHINO, TAKAHARU	COMPANY, LLC	3,181,096
BLACK, SHANNON		HUAWEI TECHNOLOGIES	PURI, RAJ K.	3,180,148
MAXWELL	3,181,428	CO., LTD.	RANDALL, MICHAEL ADAM	3,181,548
BOEHRINGER INGELHEIM		HUGHES, MELVIN L.	REDFERN, JOHN	3,181,981
VETMEDICA GMBH	3,181,411	HUSSEY, ANDREW CHARLES	REICHE, DANIA BIRTE	3,181,411
BOND, MIKE	3,181,064	ILLUMINA, INC.	RIKOSKI, RICHARD J.	3,181,534
BOTROS, JOSEPH	3,181,550	IMAGENICS CO., LTD.	ROVI GUIDES, INC.	3,181,807
BOYCE, RUSSELL I.	3,181,766	JACOBS FARMS DAYSLAND	SCHWARZ, BAILEY	3,181,981
BURCON NUTRASCIENCE		LTD.	SCHWEIZER, MARTIN	3,181,156
(MB) CORP.	3,181,156	JACOBS, KEITH	SEGALL, KEVIN	3,181,156
BURKE, MICHAEL K.	3,181,900	JOINER, MARC	SHABAZ, MARTIN VICTOR	3,181,923
BURKE, WILLIAM J.	3,181,428	JOSHI, BHARATKUMAR H.	SHETH, BIMAL PARESHBHAI	3,181,766
C.R. BARD, INC.	3,181,548	KENNEDY, ROBERT M.	SHORT BROTHERS PLC	3,181,578
C.R. BARD, INC.	3,181,923	KLEY, SASKIA	SMITH, ROBERT	3,181,428
C2CNT LLC	3,181,815	KRAFT FOODS GROUP	SPINDLER, JEFFREY A.	3,181,050
C2CNT LLC	3,181,817	BRANDS LLC	STANDARD CAR TRUCK	
C2CNT LLC	3,181,828	KRUCKENBERG,	COMPANY	3,181,900
C2CNT LLC	3,181,837	CHRISTOPHER A.	STARKENBURG, MICHAEL	
CAIRNS, PAUL	3,181,981	LANDROCK, PETER	ROSS	3,181,807
CARLSON, ALVAR	3,181,424	LICHT, STUART	STATS, JASON R.	3,181,548
CARROLL, ANDREW		LICHT, STUART	SUMNICHT, DANIEL W.	3,181,753
NATHAN	3,181,428	LICHT, STUART	SUMNICHT, DANIEL W.	3,181,756
CHAN, CHRISTOPHER	3,181,056	LICHT, STUART	SUN, YAN HELEN	3,181,428
CHEN, TIMOTHY	3,181,552	LOLLING, SHAWN M.	SWITZER, ELISE	3,181,728
CHEN, XIAOYU	3,181,696	LOLLING, SHAWN M.	TALEBI, VARGHA	3,181,327
COX, JEREMY B.	3,181,548	LORZEL, HEATH	TALLYSMAN WIRELESS INC.	3,181,542
CRYPTOMATHIC LTD.	3,181,064	MACKAY, KENNETH J.	TALLYSMAN WIRELESS INC.	3,181,550
DANOPOULOS, PANAGIOTA	3,181,327	MACKO, JASON ANDREW	TANNER, STEPHEN	3,181,696
DE CLEIR, PIARAS VALDIS	3,181,147	MACLELLAN, TAVIS A.	TECHNICAL CONSUMER	
DINOVI, CHRISTOPHER		MAROCCO, NORBERT	PRODUCTS, INC.	3,181,552
JOSEPH (DECEASED)	3,181,428	MAXXMAR INC.	TEDFORD, WILLIAM	3,181,424
DIPIPPA, VINCENT	3,181,096	MCINTYRE, JOHN	THE UNITED STATES OF	
DWIGGINS, JOHN H.	3,181,753	MCKIBBIN, ANDREW	AMERICA, AS	
DWIGGINS, JOHN H.	3,181,756	MEDICENNA THERAPEUTICS,	REPRESENTED BY THE	
EATON INTELLIGENT POWER		INC.	SECRETARY,	
LIMITED	3,181,766	MEDISCA	DEPARTMEN	3,180,148
EAVOR TECHNOLOGIES INC.	3,181,981	PHARMACEUTIQUE, INC.	TOEWS, MATTHEW	3,181,981
EMARA, MOHAMED	3,181,550	MENICON SINGAPORE PTE	VAN LIERE, CHAD C.	3,181,548
FEDOR, BRENDA L.F.	3,181,548	LTD.	VENABLE, ROBERT	3,181,424
FOUNE, CATHERINE	3,181,424	MERCHANT, FAHAR	VESTARON CORPORATION	3,181,424

**Index des demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

VIECELI, JOHN S.	3,181,696
WANG, ZHE	3,181,066
WARNER, JONATHAN C.	3,181,074
WARNER, JONATHAN C.	3,181,082
WEST, JAMES CARROLL	3,181,056
WHIRLPOOL CORPORATION	3,181,050