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# The Patent

Office Record

# La Gazette

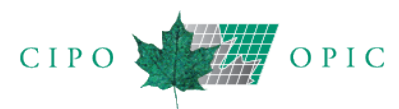
du Bureau des brevets



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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.

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## 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](http://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](http://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](http://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](http://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](mailto:publications.mail@wipo.int)) or visit their Web site ([www.wipo.int](http://www.wipo.int)).

ou par courriel ([publications.mail@wipo.int](mailto:publications.mail@wipo.int)) ou visiter leur site Web ([www.wipo.int](http://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](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](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>

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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

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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

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except statutory holiday

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

### 1.2. Services Courrier recommandé<sup>MC</sup> et Xpresspost<sup>MC</sup> 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<sup>MC</sup> et Xpresspost<sup>MC</sup> de Postes Canada sont des établissements ou des

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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<sup>MC</sup> et Xpresspost<sup>MC</sup> 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,

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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.

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### 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



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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<sup>er</sup> 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<sup>er</sup> 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<sup>MC</sup>, ou par Xpresspost<sup>MC</sup> 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



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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<sup>MC</sup>, par Xpresspost<sup>MC</sup> 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<sup>MC</sup>](#), [Mastercard<sup>MC</sup>](#) [ou](#) [American Express<sup>MC</sup>](#) [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 July 25, 2023 contains applications open to public inspection from July 9, 2023 to July 15, 2023.

### **15. Demandes canadiennes mises à la disponibilité du public**

La *Gazette du bureau des brevets* du 25 juillet 2023 contient les demandes disponibles au public pour consultation pour la période du 9 juillet 2023 au 15 juillet 2023.

# Canadian Patents Issued

July 25, 2023

## Brevets canadiens délivrés

25 juillet 2023

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[11] **2,715,196**  
[13] C

[51] **Int.Cl. A61K 8/97 (2017.01) A61K 8/72 (2006.01) A61Q 17/04 (2006.01) C09K 15/34 (2006.01)**

[25] EN

[54] **METHOD FOR MINIMIZING THE CYTOTOXICITY OF AN EFFECTIVE AGENT IN A COMPOSITION**

[54] **PROCEDE DESTINE A MINIMISER LA CYTOTOXICITE D'UN AGENT EFFICACE DANS UNE COMPOSITION**

[72] AHLNAS, THOMAS, FI

[73] OY GRANULA AB LTD, FI

[85] 2010-08-13

[86] 2009-02-13 (PCT/FI2009/050115)

[87] (WO2009/101261)

[30] FI (20080112) 2008-02-14

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[11] **2,800,408**  
[13] C

[51] **Int.Cl. A61K 35/52 (2015.01) C12N 5/076 (2010.01) A01N 1/02 (2006.01) A61D 19/00 (2006.01) A61D 19/02 (2006.01) A61P 15/08 (2006.01) A61B 17/43 (2006.01)**

[25] EN

[54] **A HETEROGENEOUS INSEMINATE SYSTEM**

[54] **SYSTEME D'INSEMINATION HETEROGENE**

[72] MORENO, JUAN F., US

[72] ROSENSTEIN, MAURICE A., US

[73] XY, LLC, US

[85] 2012-11-22

[86] 2011-06-08 (PCT/US2011/001052)

[87] (WO2011/156002)

[30] US (61/353,140) 2010-06-09

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[11] **2,819,858**  
[13] C

[51] **Int.Cl. A61K 9/20 (2006.01)**

[25] EN

[54] **GALENIC COMPOSITION SUITABLE FOR ADMINISTRATION TO A NONHUMAN ANIMAL, USES THEREOF, AND ASSOCIATED METHODS**

[54] **COMPOSITION GALENIQUE ADAPTEE A L'ADMINISTRATION A UN ANIMAL NON-HUMAIN, UTILISATIONS DE CELLE-CI ET METHODES ASSOCIEES**

[72] CHERY, LAURENT, FR

[72] WAJDA-DUBOS, JEAN-PIERRE, FR

[73] VETALIS SARL, FR

[85] 2013-05-29

[86] 2011-11-27 (PCT/IB2011/055316)

[87] (WO2012/073170)

[30] FR (1004635) 2010-11-29

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[11] **2,859,740**  
[13] C

[51] **Int.Cl. A61K 31/4412 (2006.01) A61K 31/136 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **INHIBITORS OF NOTCH SIGNALLING PATHWAY AND USE THEREOF IN TREATMENT OF CANCERS**

[54] **INHIBITEURS DE LA VOIE DE SIGNALISATION NOTCH ET LEUR UTILISATION DANS LE TRAITEMENT DE CANCERS**

[72] RADTKE, FREDDY, CH

[72] LEHAL, RAJWINDER, CH

[72] REINMULLER, VIKTORIA, CH

[72] ZHU, JIEPING, CH

[73] ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL), CH

[85] 2014-06-18

[86] 2012-12-21 (PCT/IB2012/057622)

[87] (WO2013/093885)

[30] EP (11010130.0) 2011-12-21

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[11] **2,877,175**  
[13] C

[51] **Int.Cl. C21D 1/20 (2006.01) C21D 1/22 (2006.01)**

[25] EN

[54] **MICROTREATMENT AND MICROSTRUCTURE OF CARBIDE CONTAINING IRON-BASED ALLOY**

[54] **MICRO-TRAITEMENT ET MICROSTRUCTURE DE CARBURE CONTENANT UN ALLIAGE A BASE DE FER**

[72] COLA, GARY M., US

[73] COLA, GARY M., US

[85] 2014-12-16

[86] 2013-05-28 (PCT/US2013/042952)

[87] (WO2013/188100)

[30] US (61/651,992) 2012-05-25

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[11] **2,880,312**  
[13] C

[51] **Int.Cl. A61B 5/055 (2006.01) A61B 6/00 (2006.01) A61N 5/00 (2006.01)**

[25] EN

[54] **RADIOTHERAPY SYSTEM INTEGRATING A RADIATION SOURCE WITH A MAGNETIC RESONANCE IMAGING APPARATUS WITH MOVABLE MAGNET COMPONENTS**

[54] **SYSTEME DE RADIOTHERAPIE INTEGRANT UNE SOURCE DE RAYONNEMENT AVEC UN APPAREIL D'IMAGERIE PAR RESONANCE MAGNETIQUE AVEC DES COMPOSANTS D'AIMANT MOBILES**

[72] STANESCU, TEODOR MARIUS, CA

[72] JAFFRAY, DAVID ANTHONY, CA

[73] UNIVERSITY HEALTH NETWORK, CA

[85] 2015-01-27

[86] 2013-07-29 (PCT/CA2013/000673)

[87] (WO2014/015421)

[30] US (61/676,576) 2012-07-27

**Brevets canadiens délivrés  
25 juillet 2023**

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[11] **2,880,350**  
[13] C

[51] **Int.Cl. F28F 3/08 (2006.01) F24F 12/00 (2006.01) F28F 3/10 (2006.01) F28F 27/02 (2006.01)**

[25] EN  
[54] **LIQUID PANEL ASSEMBLY**  
[54] **ENSEMBLE PANNEAU A CIRCULATION DE LIQUIDE**

[72] COUTU, KENNETH, CA  
[72] HEMINGSON, HOWARD BRIAN, CA  
[72] LEPOUDRE, PHILLIP PAUL, CA  
[73] NORTEK AIR SOLUTIONS CANADA, INC., CA

[85] 2015-01-28  
[86] 2013-06-26 (PCT/CA2013/000608)  
[87] (WO2014/029003)  
[30] US (61/692,798) 2012-08-24  
[30] US (61/774,192) 2013-03-07  
[30] US (13/797,152) 2013-03-12

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[11] **2,884,092**  
[13] C

[51] **Int.Cl. A61K 39/35 (2006.01) A61K 38/21 (2006.01) A61K 39/39 (2006.01) A61P 37/02 (2006.01) A61P 37/08 (2006.01)**

[25] EN  
[54] **INF.ALPHA.14 COMBINATIONS FOR TREATING AUTOIMMUNE DISEASES, INFLAMMATORY DISORDERS AND ALLERGIES**

[54] **COMBINAISONS D'INTERFERONS (INF.ALPHA.14) POUR LE TRAITEMENT DE MALADIES AUTO-IMMUNES, DE TROUBLES INFLAMMATOIRES ET D'ALLERGIES**

[72] STIMSON, WILLIAM, GB  
[73] ILC THERAPEUTICS LTD, GB

[85] 2015-03-04  
[86] 2013-09-04 (PCT/GB2013/052316)  
[87] (WO2014/037717)  
[30] GB (1215873.9) 2012-09-05

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[11] **2,889,507**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6869 (2018.01)**

[25] EN  
[54] **HLA TYPING USING SELECTIVE AMPLIFICATION AND SEQUENCING**

[54] **TYPAGE HLA FAISANT APPEL A UNE AMPLIFICATION ET A UN SEQUENCAGE SELECTIFS**

[72] ROYCE, THOMAS, US  
[72] APRIL, CRAIG, US  
[72] KAPER, FIONA, US  
[72] FAN, JIAN-BING, US  
[73] ILLUMINA, INC., US

[85] 2015-04-23  
[86] 2013-10-21 (PCT/US2013/065855)  
[87] (WO2014/066217)  
[30] US (61/717,495) 2012-10-23

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[11] **2,890,964**  
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01) G16H 30/20 (2018.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01)**

[25] EN  
[54] **IMAGE ANALYSIS FOR BREAST CANCER PROGNOSIS**

[54] **ANALYSE D'IMAGE POUR PRONOSTIC DE CANCER DU SEIN**

[72] CHUKKA, SRINIVAS, US  
[72] SARKAR, ANINDYA, US  
[72] SCHEMP, CRYSTAL, US  
[72] SERTEL, OLCA Y, US  
[72] SINGH, SHALINI, US  
[72] TUBBS, RAYMOND, US  
[72] WARING, PAUL MICHAEL, AU  
[72] WICK, NIKOLAUS, AT  
[73] VENTANA MEDICAL SYSTEMS, INC., US

[73] CLEVELAND CLINIC FOUNDATION, US  
[73] THE UNIVERSITY OF MELBOURNE, AU

[85] 2015-05-11  
[86] 2013-12-19 (PCT/EP2013/077295)  
[87] (WO2014/102130)  
[30] US (61/747,148) 2012-12-28

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[11] **2,899,422**  
[13] C

[51] **Int.Cl. H05B 3/26 (2006.01) A61H 33/06 (2006.01) H05K 9/00 (2006.01)**

[25] EN  
[54] **PRINTED SHIELD WITH GROUNDED MATRIX AND PASS THROUGH SOLDER POINT SYSTEMS AND METHODS**

[54] **PROTECTEUR IMPRIME DOTE D'UNE MATRICE MISE A LA TERRE ET MECANISMES ET METHODES DE POINT DE SOUDURE TRAVERSANT**

[72] BENDA, STEVEN J., US  
[72] BENDA, CHAD M., US  
[72] KAO, HUI-CHAO, TW  
[73] SAUNA360 INC., US

[86] (2899422)  
[87] (2899422)  
[22] 2015-08-05  
[30] US (61/999,790) 2014-08-05  
[30] US (62/230,122) 2015-05-27

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[11] **2,900,378**  
[13] C

[51] **Int.Cl. F21V 21/14 (2006.01) F21V 3/00 (2015.01) F21V 17/02 (2006.01) F21V 21/08 (2006.01) F21V 21/30 (2006.01) F21K 9/00 (2016.01)**

[25] EN  
[54] **LANDSCAPE LIGHT**

[54] **ECLAIRAGE D'AMENAGEMENT PAYSAGER**

[72] GHASABI, AMIR, CA  
[73] LUMINIZ INC., CA

[86] (2900378)  
[87] (2900378)  
[22] 2015-08-14

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[11] **2,903,259**  
[13] C

[51] **Int.Cl. G03B 17/08 (2021.01) G03B 43/00 (2021.01) H04L 12/16 (2006.01) H04N 5/222 (2006.01) G03B 17/55 (2021.01) H04N 7/18 (2006.01)**

[25] EN

[54] **ALL WEATHER CAMERA SYSTEM AND METHODS FOR CONTROL THEREOF**

[54] **SYSTEME DE CAMERA POUR TOUS LES TEMPS ET PROCEDES POUR SA COMMANDE**

[72] CURY, BRIAN, US

[72] NICOLL, JAMES B., US

[73] EARTHCAM, INC., US

[85] 2015-08-31

[86] 2014-03-04 (PCT/US2014/020257)

[87] (WO2014/138039)

[30] US (61/772,004) 2013-03-04

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[11] **2,904,299**  
[13] C

[51] **Int.Cl. H01Q 1/44 (2006.01) H01Q 5/307 (2015.01) H01Q 5/392 (2015.01) H01Q 9/04 (2006.01)**

[25] EN

[54] **A WIDEBAND ANTENNA FOR MOBILE SYSTEM WITH METAL BACK COVER**

[54] **UNE ANTENNE LARGE BANDE POUR SYSTEME MOBILE DOTEE D'UN COUVERCLE ARRIERE METALLIQUE**

[72] GU, HUANHUAN, CA

[72] KANJ, HOUSSAM, CA

[72] ALI, SHIROOK M., CA

[73] BLACKBERRY LIMITED, CA

[86] (2904299)

[87] (2904299)

[22] 2015-09-14

[30] US (14/486772) 2014-09-15

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[11] **2,904,475**  
[13] C

[51] **Int.Cl. B64D 13/06 (2006.01) B64D 13/08 (2006.01)**

[25] EN

[54] **AIRCRAFT AIR CONDITIONING SYSTEM AND METHOD OF OPERATING AN AIRCRAFT AIR CONDITIONING SYSTEM**

[54] **SYSTEME DE CONDITIONNEMENT DE L'AIR D'UN AERONEF ET METHODE DE FONCTIONNEMENT D'UN SYSTEME DE CONDITIONNEMENT DE L'AIR D'UN AERONEF**

[72] BAMMANN, HOLGER, DE

[72] KLIMPEL, FRANK, DE

[72] BRUNSWIG, HANS, DE

[73] AIRBUS OPERATIONS GMBH, DE

[86] (2904475)

[87] (2904475)

[22] 2015-09-14

[30] EP (14185484.4) 2014-09-19

[30] EP (15168140.0) 2015-05-19

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[11] **2,905,102**  
[13] C

[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/08 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR APPLYING ELECTRICAL STIMULATION FOR OPTIMIZING SPINAL CORD STIMULATION**

[54] **SYSTEMES ET PROCEDES POUR APPLIQUER UNE STIMULATION ELECTRIQUE POUR OPTIMISER UNE STIMULATION DE MOELLE EPINIERE**

[72] GRILL, WARREN M., US

[72] ZHANG, TIANHE, US

[73] DUKE UNIVERSITY, US

[85] 2015-09-09

[86] 2014-03-13 (PCT/US2014/025423)

[87] (WO2014/159896)

[30] US (61/779,632) 2013-03-13

[30] US (61/779,554) 2013-03-13

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[11] **2,905,569**  
[13] C

[51] **Int.Cl. A61K 39/165 (2006.01) A61K 39/285 (2006.01)**

[25] EN

[54] **SINGLE HIGH DOSE OF MODIFIED VACCINIA VIRUS ANKARA INDUCES A PROTECTIVE IMMUNE RESPONSE IN NEONATES AND INFANTS**

[54] **FORTE DOSE UNIQUE DE VACCINE ANKARA MODIFIEE POUR INDUIRE UNE REPOSE IMMUNITAIRE PROTECTRICE CHEZ LES NOUVEAU-NES ET LES NOURRISSONS**

[72] CHEMINAY, CEDRIC, DE

[72] VOLKMANN, ARIANE, DE

[72] CHAPLIN, PAUL, DE

[72] SUTER, MARK, CH

[73] BAVARIAN NORDIC A/S, DK

[85] 2015-09-11

[86] 2014-03-14 (PCT/EP2014/000693)

[87] (WO2014/139687)

[30] US (61/788,722) 2013-03-15

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[11] **2,910,090**  
[13] C

[51] **Int.Cl. G05D 23/19 (2006.01) H04W 4/00 (2018.01) H04L 12/16 (2006.01) H04L 12/28 (2006.01)**

[25] EN

[54] **THERMOSTAT CODE INPUT SYSTEM AND METHOD THEREFOR USING SSID**

[54] **SYSTEME D'ENTREE DE CODE DE THERMOSTAT ET METHODE ASSOCIEE EMPLOYANT UN SSID**

[72] POPLAWSKI, DANIEL S., US

[72] SODERLUND, ERNEST E., US

[72] HA, WAI-LEUNG, US

[73] BRAEBURN SYSTEMS LLC, US

[86] (2910090)

[87] (2910090)

[22] 2015-10-22

[30] US (62/067,148) 2014-10-22

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[11] **2,911,139**  
[13] C

[51] **Int.Cl. C09K 8/80 (2006.01) E21B 43/267 (2006.01)**  
[25] EN  
[54] **SHAPE MEMORY POLYMER PROPPANTS AND METHODS OF MAKING SHAPE MEMORY POLYMER PROPPANTS FOR APPLICATION IN HYDRAULIC FRACTURING TREATMENTS**  
[54] **AGENTS DE SOUTÈNEMENT EN POLYMERÈ A MEMOIRE DE FORME ET PROCÈDES DE FABRICATION D'AGENTS DE SOUTÈNEMENT EN POLYMERÈ A MEMOIRE DE FORME DESTINÉS AUX TRAITEMENTS PAR FRACTURATION HYDRAULIQUE**  
[72] DAHI TALEGHANI, ARASH, US  
[72] SHOJAEI, AMIR, US  
[72] LI, GUOQIANG, US  
[73] BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE, US  
[86] (2911139)  
[87] (2911139)  
[22] 2015-11-05  
[30] US (62/075,407) 2014-11-05

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[11] **2,914,562**  
[13] C

[51] **Int.Cl. H04B 1/401 (2015.01) H04B 17/12 (2015.01) H04B 7/06 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR ANTENNA SELECTION**  
[54] **METHODE ET APPAREIL PERMETTANT LA SELECTION D'ANTENNE**  
[72] GREENE, MATTHEW RUSSELL, US  
[73] NXP USA, INC., US  
[86] (2914562)  
[87] (2914562)  
[22] 2015-12-11  
[30] US (14/571,928) 2014-12-16

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[11] **2,914,655**  
[13] C

[51] **Int.Cl. A61F 13/00 (2006.01)**  
[25] EN  
[54] **WOUND CARE DEVICE FOR TREATING WOUNDS BY MEANS OF ATMOSPHERIC NEGATIVE PRESSURE, COMPRISING A WINDOW THAT CAN BE OPENED**  
[54] **DISPOSITIF DE TRAITEMENT DE PLAIES PAR PRESSION SOUS-ATMOSPHERIQUE, PRESENTANT UNE FENETRE OUVRABLE**  
[72] RIESINGER, BIRGIT, DE  
[73] BSN MEDICAL GMBH, DE  
[85] 2015-11-16  
[86] 2014-05-16 (PCT/EP2014/060133)  
[87] (WO2014/184366)  
[30] DE (10 2013 105 063.8) 2013-05-16  
[30] DE (10 2013 107 399.9) 2013-07-12

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[11] **2,917,307**  
[13] C

[51] **Int.Cl. C12P 19/14 (2006.01) C12P 7/06 (2006.01) C12P 19/02 (2006.01)**  
[25] EN  
[54] **METHOD OF PRODUCING SUGAR LIQUID, AND SUGAR LIQUID AND SOLID SUGAR**  
[54] **PROCEDE DE PRODUCTION DE LIQUIDE DE SUCRE, ET LIQUIDE SUCRE ET SUCRE SOLIDE**  
[72] KURIHARA, HIROYUKI, JP  
[72] ISHIZUKA, HIROKO, JP  
[72] YAMADA, KATSUSHIGE, JP  
[73] TORAY INDUSTRIES, INC., JP  
[85] 2016-01-04  
[86] 2014-07-08 (PCT/JP2014/068115)  
[87] (WO2015/005307)  
[30] JP (2013-143403) 2013-07-09

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[11] **2,919,498**  
[13] C

[51] **Int.Cl. A61K 9/72 (2006.01) A61K 31/404 (2006.01) A61K 31/506 (2006.01) A61P 11/00 (2006.01)**  
[25] EN  
[54] **AEROSOL NINTEDANIB COMPOUNDS AND USES THEREOF**  
[54] **COMPOSES DE NINTEDANIB EN AEROSOL ET UTILISATIONS CONNEXES**  
[72] SURBER, MARK WILLIAM, US  
[73] AVALYN PHARMA INC., US  
[85] 2016-01-26  
[86] 2014-07-31 (PCT/US2014/049294)  
[87] (WO2015/017728)  
[30] US (61/860,721) 2013-07-31  
[30] US (61/948,461) 2014-03-05

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[11] **2,926,582**  
[13] C

[51] **Int.Cl. A61K 31/231 (2006.01) A61K 31/201 (2006.01) A61P 3/00 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) A61P 11/00 (2006.01) A61P 11/12 (2006.01)**  
[25] FR  
[54] **COMPOUNDS AND COMPOSITIONS COMPRISING SUCH COMPOUNDS FOR THE PREVENTION OR TREATMENT OF DYSLIPIDAEMIAS.**  
[54] **COMPOSES ET COMPOSITIONS COMPRENANT DE TELS COMPOSES POUR LA PREVENTION OU LE TRAITEMENT DES DYSLIPIDEMIES.**  
[72] SPANOVA, MIROSLAVA, SK  
[72] FERREIRA, THIERRY, FR  
[72] CLEMENT, ROMAIN, FR  
[72] DHAYAL, SHALINEE, GB  
[72] MORGAN, NOEL, GB  
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[73] UNIVERSITE DE POITIERS, FR  
[73] UNIVERSITY OF EXETER, GB  
[85] 2016-04-06  
[86] 2014-10-08 (PCT/FR2014/052546)  
[87] (WO2015/052433)  
[30] FR (13/02334) 2013-10-08

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[11] **2,927,269**  
[13] C

[51] **Int.Cl. F41H 11/02 (2006.01) F41H 13/00 (2006.01)**  
[25] EN  
[54] **MULTIPLE TURRET DIRCM SYSTEM AND RELATED METHOD OF OPERATION**  
[54] **SYSTEME DIRCM DE TOURELLE MULTIPLE ET METHODE DE FONCTIONNEMENT ASSOCIEE**  
[72] USAI, ANDREA, IT  
[72] MAZZOLI, RAFFAELLA, IT  
[72] MAZZI, GIORGIO, IT  
[72] ALBERTONI, ALESSANDRO, IT  
[72] IDEO, LUIGI, IT  
[72] TAFUTO, ANTONIO, IT  
[72] CIUFFA, PATRIZIO, IT  
[73] ELETTRONICA S.P.A., IT  
[86] (2927269)  
[87] (2927269)  
[22] 2016-04-18  
[30] EP (15425030.2) 2015-04-17

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[11] **2,931,245**  
[13] C

[51] **Int.Cl. B23K 26/354 (2014.01) C23C 14/08 (2006.01) C23F 4/00 (2006.01) H01M 4/00 (2006.01)**  
[25] EN  
[54] **METALLIC SURFACE WITH KARSTIFIED RELIEF, FORMING SAME, AND HIGH SURFACE AREA METALLIC ELECTROCHEMICAL INTERFACE**  
[54] **SURFACE METALLIQUE A RELIEF KARSTIFIE, FORMATION DE LADITE SURFACE ET INTERFACE ELECTROCHIMIQUE METALLIQUE DE ZONE DE SURFACE ELEVEE**  
[72] YANG, DONGFANG, CA  
[73] NATIONAL RESEARCH COUNCIL OF CANADA, CA  
[86] (2931245)  
[87] (2931245)  
[22] 2016-05-26  
[30] US (62/166,407) 2015-05-26

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[11] **2,932,591**  
[13] C

[51] **Int.Cl. G06Q 10/02 (2012.01) H04W 4/24 (2018.01) G06F 9/50 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR REDUCING BURST USAGE OF A NETWORKED COMPUTER SYSTEM**  
[54] **PROCEDES ET SYSTEMES UTILISES POUR REDUIRE UNE UTILISATION PAR RAFALES D'UN SYSTEME INFORMATIQUE EN RESEAU**  
[72] SUSSMAN, ADAM, US  
[72] ROSS, BRENDAN, US  
[72] BENNETT, BOB, US  
[72] DENKER, DENNIS, US  
[72] KARONIS, ANDREW, US  
[73] LIVE NATION ENTERTAINMENT, INC., US  
[86] (2932591)  
[87] (2932591)  
[22] 2007-02-06  
[62] 2,637,184  
[30] US (60/771113) 2006-02-07

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[11] **2,934,725**  
[13] C

[51] **Int.Cl. C08L 23/28 (2006.01) C08J 3/03 (2006.01) C08J 3/20 (2006.01) C08J 3/24 (2006.01) C08K 3/26 (2006.01) C08K 5/098 (2006.01) C08L 23/22 (2006.01)**  
[25] EN  
[54] **HIGHLY PURE HALOGENATED RUBBERS**  
[54] **CAOUTCHOUCS HALOGENES TRES PURS**  
[72] ARSENAULT, GILLES JOSEPH, CA  
[72] THOMPSON, DAVID, CA  
[72] LUND, CLINTON, CA  
[73] ARLANXEO SINGAPORE PTE. LTD., SG  
[85] 2016-06-21  
[86] 2014-12-22 (PCT/CA2014/051250)  
[87] (WO2015/095961)  
[30] EP (13199466.7) 2013-12-23  
[30] EP (14160794.5) 2014-03-19  
[30] EP (14160795.2) 2014-03-19  
[30] EP (14175053.9) 2014-06-30  
[30] EP (14175964.7) 2014-07-07

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[11] **2,934,812**  
[13] C

[51] **Int.Cl. C08L 23/22 (2006.01) C08J 3/03 (2006.01) C08J 3/20 (2006.01) C08J 3/24 (2006.01)**  
[25] EN  
[54] **ANTI-AGGLOMERANTS FOR THE RUBBER INDUSTRY**  
[54] **ANTIMOTTANTS POUR L'INDUSTRIE DU CAOUTCHOUC**  
[72] THOMPSON, DAVID, CA  
[72] LUND, CLINTON, CA  
[73] ARLANXEO SINGAPORE PTE. LTD., SG  
[85] 2016-06-21  
[86] 2014-12-22 (PCT/CA2014/051248)  
[87] (WO2015/095959)  
[30] EP (13199466.7) 2013-12-23  
[30] EP (14160714.3) 2014-03-19  
[30] EP (14175016.6) 2014-06-30  
[30] EP (14175973.8) 2014-07-07

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[11] **2,935,112**  
[13] C

[51] **Int.Cl. G01N 9/36 (2006.01) E21B 43/16 (2006.01)**  
[25] EN  
[54] **SYSTEM AND PROCESS FOR ESTIMATING SOLVENT RECOVERY**  
[54] **SYSTEME ET PROCEDE D'ESTIMATION DE RECUPERATION DE SOLVANT**  
[72] GIESBRECHT, DAN, CA  
[72] OSKOU EI, JAVAD, CA  
[72] JI, YIMING, CA  
[73] CNOOC PETROLEUM NORTH AMERICA ULC, CA  
[86] (2935112)  
[87] (2935112)  
[22] 2016-06-30  
[30] US (62/188,022) 2015-07-02



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[11] **2,935,426**  
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01)**  
[25] EN  
[54] **POLYOLIGOMER COMPOUND WITH BIOCLEAVABLE CONJUGATES FOR REDUCING OR INHIBITING EXPRESSION OF A NUCLEIC ACID TARGET**

[54] **COMPOSE POLYOLIGOMERE COMPRENANT DES CONJUGUES CAPABLES DE BIOFRAGMENTATION POUR REDUIRE OU INHIBER L'EXPRESSION D'UNE CIBLE D'ACIDE NUCLEIQUE**

[72] ALBÆK, NANNA, DK  
[72] HANSEN, HENRIK FRYDENLUND, DK  
[72] KAMMLER, SUSANNE, DK  
[72] LINDOW, MORTEN, DK  
[72] RAVN, JACOB, DK  
[72] TURNER, MARK, DK  
[73] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2016-06-29  
[86] 2015-01-26 (PCT/EP2015/051442)  
[87] (WO2015/113922)  
[30] EP (14153274.7) 2014-01-30  
[30] EP (14168277.3) 2014-05-14  
[30] EP (14193206.1) 2014-11-14

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[11] **2,938,559**  
[13] C

[51] **Int.Cl. G01N 33/46 (2006.01) G06Q 50/02 (2012.01) A01G 23/00 (2006.01) G06F 17/40 (2006.01) A01D 91/00 (2006.01)**

[25] EN  
[54] **METHOD AND ARRANGEMENT FOR MONITORING THE COLLECTION OF PLANT MATERIAL**

[54] **METHODE ET AMENAGEMENT DESTINES A SURVEILLER LA COLLECTE DE MATERIAU VEGATAL**

[72] PUTKONEN, AKI JUHA ANTERO, FI  
[72] KAARNAMETSA, JOHANNES, FI  
[72] SILTANEN, VESA, FI  
[73] JOHN DEERE FORESTRY OY, FI  
[86] (2938559)  
[87] (2938559)  
[22] 2016-08-11  
[30] EP (15 185 018.7) 2015-09-14

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[11] **2,940,741**  
[13] C

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

[25] EN  
[54] **METER CENTER, AND SOCKET ASSEMBLY AND METHOD OF ASSEMBLING A SOCKET ASSEMBLY THEREFOR**

[54] **APPAREIL DE MESURE DE CENTRE ET DISPOSITIF DE DOUILLE ET METHODE D'ASSEMBLAGE D'UN DISPOSITIF DE DOUILLE ASSOCIE**

[72] CABLE, ALBERT BOYD, US  
[73] EATON INTELLIGENT POWER LIMITED, IE  
[86] (2940741)  
[87] (2940741)  
[22] 2016-08-31  
[30] US (14/944,734) 2015-11-18

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[11] **2,944,930**  
[13] C

[51] **Int.Cl. B25B 7/14 (2006.01)**

[25] EN  
[54] **LOCK MECHANISM AND HAND TOOL HAVING THE SAME**

[54] **MECANISME DE VERROU ET OUTIL MANUEL COMPORTANT LEDIT MECANISME**

[72] HUANG, WEN-LUNG, TW  
[73] SULLSTAR TECHNOLOGIES INC., US  
[86] (2944930)  
[87] (2944930)  
[22] 2016-10-07  
[30] TW (104133573) 2015-10-13  
[30] US (14/998,886) 2016-02-26

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[11] **2,945,677**  
[13] C

[51] **Int.Cl. A61N 1/04 (2006.01) A61N 1/36 (2006.01)**

[25] EN  
[54] **DEVICE TO TREAT INCONTINENCE**

[54] **DISPOSITIF DE TRAITEMENT DE L'INCONTINENCE**

[72] KOLB, ERIC, US  
[72] KOLB, GLORIA, US  
[73] ELIDAH, INC., US  
[85] 2016-10-12  
[86] 2015-04-13 (PCT/US2015/025500)  
[87] (WO2015/160676)  
[30] US (61/979,065) 2014-04-14  
[30] US (14/678,058) 2015-04-03

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[11] **2,945,691**  
[13] C

[51] **Int.Cl. A61N 5/067 (2006.01)**

[25] EN  
[54] **MULTIPLE BEAM LASER TREATMENT DEVICE**

[54] **DISPOSITIF DE TRAITEMENT LASER A MULTIPLES FAISCEAUX**

[72] BOUTOUSOV, DMITRI, US  
[72] NETCHITAILO, VLADIMIR, US  
[72] CARINO, AMADO, US  
[73] BIOLASE, INC., US  
[85] 2016-07-27  
[86] 2015-01-30 (PCT/US2015/013925)  
[87] (WO2015/117009)  
[30] US (61/934,599) 2014-01-31

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[11] **2,948,039**  
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) C12Q 1/6809 (2018.01) C12Q 1/6883 (2018.01) A61K 35/54 (2015.01) G01N 33/53 (2006.01) G01N 33/74 (2006.01)**

[25] EN  
[54] **A PROGNOSTIC ASSAY FOR SUCCESS OF ASSISTED REPRODUCTIVE TECHNOLOGY**

[54] **DOSAGE PRONOSTIQUE POUR LA REUSSITE D'UNE TECHNOLOGIE DE PROCREATION MEDICALEMENT ASSISTEE**

[72] SALAMONSEN, LOIS, AU  
[72] EDGELL, TRACEY, AU  
[72] HANNAN, NATALIE, AU  
[72] ROMBAUTS, LUK, AU  
[73] HUDSON INSTITUTE OF MEDICAL RESEARCH, AU  
[85] 2016-11-04  
[86] 2015-04-01 (PCT/AU2015/050147)  
[87] (WO2015/149129)  
[30] AU (2014901190) 2014-04-02

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[11] **2,950,719**  
[13] C

[51] **Int.Cl. A45D 37/00 (2006.01) A45D 40/00 (2006.01)**  
[25] EN  
[54] **DEVICE FOR DELIVERY OF SKIN CARE COMPOSITION**  
[54] **DISPOSITIF POUR L'ADMINISTRATION D'UNE COMPOSITION DE SOIN DE LA PEAU**  
[72] PUTNINS, MATTHEW ERIC, US  
[73] JOHNSON & JOHNSON CONSUMER INC., US  
[85] 2016-11-29  
[86] 2015-05-12 (PCT/US2015/030251)  
[87] (WO2015/183540)  
[30] US (14/291,508) 2014-05-30

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[11] **2,952,183**  
[13] C

[51] **Int.Cl. B60S 1/18 (2006.01) B60S 1/08 (2006.01) B64C 1/14 (2006.01) B64D 47/00 (2006.01) F16H 19/08 (2006.01)**  
[25] EN  
[54] **VARIABLE SWEEP ANGLE MOTOR DRIVE**  
[54] **ENTRAINEMENT MOTEUR A ANGLE DE FLECHE VARIABLE**  
[72] SRIVATSA, SANTYAR, IN  
[72] MAHAPATRA, GURU PRASAD, IN  
[73] ROSEMOUNT AEROSPACE INC., US  
[86] (2952183)  
[87] (2952183)  
[22] 2016-12-16  
[30] IN (6766/CHE/2015) 2015-12-18

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[11] **2,952,233**  
[13] C

[51] **Int.Cl. H01M 12/00 (2006.01) H01M 4/13 (2010.01) H01G 11/22 (2013.01)**  
[25] EN  
[54] **HYBRID ELECTROCHEMICAL CELL**  
[54] **BATTERIE ELECTROCHIMIQUE HYBRIDE**  
[72] EL-KADY, MAHER F., US  
[72] KANER, RICHARD B., US  
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[85] 2016-12-13  
[86] 2015-06-16 (PCT/US2015/036082)  
[87] (WO2015/195700)  
[30] US (62/012,835) 2014-06-16

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[11] **2,952,255**  
[13] C

[51] **Int.Cl. C22C 38/00 (2006.01)**  
[25] EN  
[54] **HIGH STRENGTH IRON-BASED ALLOYS, PROCESSES FOR MAKING SAME, AND ARTICLES RESULTING THEREFROM**  
[54] **ALLIAGE A BASE DE FER A HAUTE RESISTANCE, SES PROCEDES DE FABRICATION ET ARTICLES EN RESULTANT**  
[72] COLA, GARY M., JR., US  
[73] COLA, GARY M., JR., US  
[85] 2016-12-13  
[86] 2015-06-17 (PCT/US2015/036313)  
[87] (WO2015/195851)  
[30] US (62/013,396) 2014-06-17  
[30] US (62/093,731) 2014-12-18  
[30] US (62/100,373) 2015-01-06

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[11] **2,953,718**  
[13] C

[51] **Int.Cl. C08L 23/22 (2006.01) C08J 3/07 (2006.01) C08J 3/24 (2006.01)**  
[25] EN  
[54] **ANTI-AGGLOMERANTS FOR THE RUBBER INDUSTRY**  
[54] **ANTIMOTTANTS POUR L'INDUSTRIE DU CAOUTCHOUC**  
[72] THOMPSON, DAVID, CA  
[72] LUND, CLINTON, CA  
[73] ARLANXEO SINGAPORE PTE. LTD., SG  
[85] 2016-12-28  
[86] 2015-06-29 (PCT/CA2015/050608)  
[87] (WO2016/000073)  
[30] EP (14175016.6) 2014-06-30  
[30] EP (14175973.8) 2014-07-07  
[30] EP (15173206.2) 2015-06-22

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[11] **2,953,801**  
[13] C

[51] **Int.Cl. H03F 3/181 (2006.01) H03F 1/02 (2006.01) H03F 1/34 (2006.01) H03F 3/217 (2006.01)**  
[25] FR  
[54] **AUDIO AMPLIFIER**  
[54] **AMPLIFICATEUR AUDIO**  
[72] CALMEL, PIERRE-EMMANUEL, FR  
[73] DEVIALET, FR  
[85] 2016-12-28  
[86] 2015-06-25 (PCT/EP2015/064383)  
[87] (WO2015/197764)  
[30] FR (14 55935) 2014-06-25

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[11] **2,953,932**  
[13] C

[51] **Int.Cl. E04F 11/18 (2006.01) E04H 17/14 (2006.01)**  
[25] EN  
[54] **GUARD RAIL SYSTEM**  
[54] **SYSTEME DE RAIL PROTECTEUR**  
[72] BIZZARRI, PAUL, US  
[72] DAVOLL, JASON A., US  
[72] GORI, MICHAEL A., US  
[72] PEARSON, RICHARD ARTHUR, II, US  
[72] TURNER, RONALD KEITH, US  
[73] CPG INTERNATIONAL LLC, US  
[86] (2953932)  
[87] (2953932)  
[22] 2017-01-06  
[30] US (15/042,637) 2016-02-12

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[11] **2,953,957**  
[13] C

[51] **Int.Cl. A61K 31/506 (2006.01) A61K 8/04 (2006.01) A61K 8/34 (2006.01) A61K 8/37 (2006.01) A61K 8/49 (2006.01) A61K 9/10 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61P 17/14 (2006.01) A61Q 7/00 (2006.01)**  
[25] EN  
[54] **MINOXIDIL-CONTAINING HAIR GROWTH COMPOSITION**  
[54] **COMPOSITION DE CROISSANCE CAPILLAIRE CONTENANT DU MINOXIDIL**  
[72] WU, JEFFREY M., US  
[73] JOHNSON & JOHNSON CONSUMER INC., US  
[85] 2016-12-29  
[86] 2015-06-30 (PCT/US2015/038434)  
[87] (WO2016/003970)  
[30] US (62/019,163) 2014-06-30  
[30] US (62/019,151) 2014-06-30  
[30] US (62/019,141) 2014-06-30  
[30] US (62/019,176) 2014-06-30  
[30] US (62/019,169) 2014-06-30

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[11] **2,954,175**  
[13] C

[51] **Int.Cl. A61K 31/36 (2006.01) A61K 31/16 (2006.01) A61K 31/17 (2006.01) A61K 31/38 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS TO IMPROVE ADOPTIVE CELL THERAPIES**

[54] **COMPOSITIONS ET METHODES D'AMELIORATION DE THERAPIES CELLULAIRES ADOPTIVES**

[72] MARATHI, UPENDRA K., US

[73] 7 HILLS PHARMA LLC, US

[85] 2017-01-03

[86] 2015-06-30 (PCT/US2015/038447)

[87] (WO2016/003980)

[30] US (62/019,793) 2014-07-01

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[11] **2,954,245**  
[13] C

[51] **Int.Cl. C12N 5/0775 (2010.01) C07K 16/28 (2006.01) C12N 15/02 (2006.01) C12P 1/00 (2006.01) C12Q 1/04 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **METHOD FOR EVALUATING QUALITY OF HUMAN MESENCHYMAL STEM CELL, AND MONOCLONAL ANTIBODY FOR USE IN SAID METHOD**

[54] **PROCEDE POUR EVALUER LA QUALITE D'UNE CELLULE SOUCHE MESENCHYMATEUSE HUMAINE, ET ANTICORPS MONOCLONAL S'UTILISANT DANS LEDIT PROCEDE**

[72] IYOKU, YUMI, JP

[72] OKANO, HIDEYUKI, JP

[72] MABUCHI, YO, JP

[73] PUREC CO., LTD., JP

[85] 2017-01-04

[86] 2015-07-31 (PCT/JP2015/071770)

[87] (WO2016/017795)

[30] JP (2014-157367) 2014-08-01

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[11] **2,955,320**  
[13] C

[51] **Int.Cl. C22C 19/05 (2006.01)**

[25] EN

[54] **NI-BASED SUPERALLOY FOR HOT FORGING**

[54] **SUPERALLIAGE A BASE DE NI DESTINE AU FORGEAGE A CHAUD**

[72] OSAKI, MOTOTSUGU, JP

[72] UETA, SHIGEKI, JP

[72] IZUMI, KOHKI, JP

[73] DAIDO STEEL CO., LTD., JP

[86] (2955320)

[87] (2955320)

[22] 2017-01-18

[30] JP (2016-029374) 2016-02-18

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[11] **2,956,673**  
[13] C

[51] **Int.Cl. A63F 1/00 (2006.01) A63F 13/80 (2014.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PROVIDING A BLACKJACK GAME HAVING ADDITIONAL OPTIONS FOR A PLAYER**

[54] **SYSTEME ET PROCEDE POUR OFFRIR A UN JOUEUR UN JEU DE BLACK-JACK PRESENTANT DES OPTIONS SUPPLEMENTAIRES**

[72] ASHER, JOSEPH M., US

[72] FINDLAY, LEWIS C., GB

[72] RICHES, GUY IAIN OLIVER, GB

[73] CANTOR INDEX LLC, US

[86] (2956673)

[87] (2956673)

[22] 2005-10-12

[62] 2,583,848

[30] US (10/963,399) 2004-10-12

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[11] **2,957,302**  
[13] C

[51] **Int.Cl. C12N 15/82 (2006.01) A01N 37/18 (2006.01) A01N 43/42 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **CHROMOBACTERIUM SUBTSUGAE GENES WITH INSECTICIDAL ACTIVITY**

[54] **GENES DE CHROMOBACTERIUM SUBTSUGAE COMPRENANT UNE ACTIVITE INSECTICIDE**

[72] CORDOVA-KREYLOS, ANA LUCIA, US

[72] BURMAN, SCOTT, US

[72] WILK, DEBORA, US

[73] MARRONE BIO INNOVATIONS, INC., US

[85] 2017-02-03

[86] 2015-08-31 (PCT/US2015/047649)

[87] (WO2016/036635)

[30] US (62/046,672) 2014-09-05

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[11] **2,960,637**  
[13] C

[51] **Int.Cl. B29C 70/86 (2006.01) B29C 65/00 (2006.01) F16C 3/02 (2006.01) F16C 7/02 (2006.01)**

[25] EN

[54] **TRANSMISSION SHAFT AND METHOD FOR PRODUCING SAME**

[54] **ARBRE DE TRANSMISSION ET SON PROCEDE DE FABRICATION**

[72] BOVEROUX, BENOIT, BE

[73] BD INVENT S.A., BE

[85] 2017-03-08

[86] 2015-09-09 (PCT/EP2015/070569)

[87] (WO2016/038072)

[30] BE (2014/0676) 2014-09-09

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[11] **2,960,814**  
[13] C

[51] **Int.Cl. A61B 5/024 (2006.01) A61B 5/282 (2021.01) A47D 13/02 (2006.01) A61G 1/00 (2006.01) A61G 1/048 (2006.01)**

[25] EN

[54] **INFANT PATIENT TRANSFER DEVICE WITH HEART RATE SENSOR**

[54] **DISPOSITIF DE TRANSFERT DE NOURRISSON AYANT UN CAPTEUR DE FREQUENCE CARDIAQUE**

[72] BELSINGER, HARRY EDWARD, JR., US

[72] FALK, STEVEN MITCHELL, US

[72] UNDERWOOD, THOMAS CHARLES, US

[72] STARR, KAREN P., US

[73] GENERAL ELECTRIC COMPANY, US

[85] 2017-03-09

[86] 2015-08-24 (PCT/US2015/046539)

[87] (WO2016/039971)

[30] US (14/483,315) 2014-09-11

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[11] **2,961,127**  
[13] C

[51] **Int.Cl. A61B 10/00 (2006.01) A61B 90/00 (2016.01) A61B 5/00 (2006.01) A61B 5/07 (2006.01)**

[25] EN

[54] **SAMPLING DEVICE WITH EJECTING COMPARTMENT**

[54] **DISPOSITIF D'ECHANTILLONNAGE AVEC COMPARTIMENT D'EJECTION**

[72] WRIGGLESWORTH, DAVID, GB

[72] BRADLEY, WILLIAM JAMES, GB

[73] MARS, INCORPORATED, US

[85] 2017-03-13

[86] 2015-09-11 (PCT/GB2015/052647)

[87] (WO2016/042301)

[30] GB (1416454.5) 2014-09-17

[30] GB (1416453.7) 2014-09-17

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[11] **2,963,532**  
[13] C

[51] **Int.Cl. G06F 3/12 (2006.01) G06F 8/61 (2018.01) B41J 3/00 (2006.01)**

[25] EN

[54] **CUSTOMIZABLE FOOD FRESHNESS PRINTER STARTUP WIZARD**

[54] **ASSISTANT PERSONNALISABLE DE DEMARRAGE DE DISPOSITIF D'IMPRESSION DE DATE DE FRAICHEUR ALIMENTAIRE**

[72] DUCKETT, JEANNE F., US

[72] MORROW, MARK S., US

[72] MCMULLEN, GARY E., US

[73] AVERY DENNISON RETAIL INFORMATION SERVICES LLC, US

[85] 2017-04-03

[86] 2015-10-02 (PCT/US2015/053749)

[87] (WO2016/054523)

[30] US (62/059,474) 2014-10-03

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[11] **2,964,182**  
[13] C

[51] **Int.Cl. A23K 50/10 (2016.01) A23K 20/10 (2016.01) A23K 20/20 (2016.01)**

[25] EN

[54] **COMPOSITIONS TO INCREASE MILK FAT PRODUCTION IN LACTATING RUMINANTS AND METHODS USING THE SAME**

[54] **COMPOSITIONS POUR AUGMENTER LA PRODUCTION DE LA GRAISSE DU LAIT CHEZ LES RUMINANTS EN LACTATION ET PROCEDES LES UTILISANT**

[72] DOELMAN, JOHN HENRY, CA

[73] NUTRECO IP ASSETS B.V., NL

[85] 2017-04-10

[86] 2015-10-09 (PCT/EP2015/073479)

[87] (WO2016/055651)

[30] NL (2013610) 2014-10-10

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[11] **2,965,596**  
[13] C

[51] **Int.Cl. B60T 13/66 (2006.01) B60T 13/68 (2006.01)**

[25] EN

[54] **ELECTRO-PNEUMATIC ASSEMBLY, PARTICULARLY FOR A PNEUMATIC BRAKING INSTALLATION FOR RAILWAY VEHICLES**

[54] **ENSEMBLE ELECTROPNEUMATIQUE, EN PARTICULIER POUR UNE INSTALLATION DE FREINAGE PNEUMATIQUE SUR DES VEHICULES DE CHEMINS DE FER**

[72] TIONE, ROBERTO, IT

[72] CAVAZZIN, ANDREA, IT

[72] GRASSO, ANGELO, IT

[73] FAIVELEY TRANSPORT ITALIA S.P.A., IT

[85] 2017-04-24

[86] 2015-11-12 (PCT/IB2015/058730)

[87] (WO2016/075642)

[30] IT (TO2014A000945) 2014-11-13

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[11] **2,966,297**  
[13] C

[51] **Int.Cl. E21B 19/14 (2006.01) E21B 15/00 (2006.01) E21B 19/16 (2006.01) E21B 41/00 (2006.01)**

[25] EN

[54] **A METHOD FOR PLACING AND REMOVING PIPE FROM A FINGER RACK**

[54] **PROCEDE DE PLACEMENT ET DE RETRAIT DE TUYAU A PARTIR D'UN RATELIER A DOIGTS**

[72] TRYDAL, STIG VIDAR, NO

[72] HOLMSTROM, MARIANNE, NO

[72] ROHDE, KJELL, NO

[72] ROSANO, HUGO LEONARDO, NO

[73] NATIONAL OILWELL VARCO NORWAY AS, NO

[85] 2017-04-28

[86] 2015-11-13 (PCT/GB2015/053447)

[87] (WO2016/075478)

[30] GB (1420258.4) 2014-11-14

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[11] **2,967,779**  
[13] C

[51] **Int.Cl. G06F 21/60 (2013.01) G06Q 20/38 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR EFFECTIVELY ANONYMIZING CONSUMER TRANSACTION DATA**  
[54] **SYSTEMES ET PROCESSES DESTINES A L'ANONYMISATION DE FACON EFFICACE DES DONNEES DE TRANSACTION DU CONSOMMATEUR**  
[72] HOWE, JUSTIN X., US  
[72] REISKIND, ANDREW, US  
[73] MASTERCARD INTERNATIONAL INCORPORATED, US  
[85] 2017-05-12  
[86] 2015-11-12 (PCT/US2015/060299)  
[87] (WO2016/081269)  
[30] US (14/543,442) 2014-11-17

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[11] **2,968,297**  
[13] C

[51] **Int.Cl. G07C 9/25 (2020.01)**  
[25] EN  
[54] **SIMULTANEOUS AUTHENTICATION OF A SECURITY ARTICLE AND IDENTIFICATION OF THE SECURITY ARTICLE USER**  
[54] **AUTHENTIFICATION D'UN ARTICLE DE SECURITE ET IDENTIFICATION SIMULTANEE DE L'UTILISATEUR DE L'ARTICLE DE SECURITE**  
[72] FANKHAUSER, CATHERINE, CH  
[72] TALWERDI, MEHDI, CA  
[73] SICPA HOLDING SA, CH  
[85] 2017-05-18  
[86] 2016-01-28 (PCT/EP2016/051801)  
[87] (WO2016/120382)  
[30] EP (15153219.9) 2015-01-30

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[11] **2,970,350**  
[13] C

[51] **Int.Cl. A61L 2/14 (2006.01) A61L 2/10 (2006.01)**  
[25] EN  
[54] **PLASMA TREATMENT DEVICE AND METHOD OF TREATING ITEMS**  
[54] **DISPOSITIF DE TRAITEMENT PAR PLASMA ET PROCEDURE DE TRAITEMENT D'ARTICLES**  
[72] REGALADO, JULIUS, US  
[72] ZHOU, XIN, US  
[72] CHERISOL, KENNETH, US  
[72] CLARK, MILES, US  
[73] BLUEWAVE TECHNOLOGIES, INC., US  
[85] 2017-06-08  
[86] 2015-12-22 (PCT/US2015/067437)  
[87] (WO2016/106344)  
[30] US (62/095,629) 2014-12-22  
[30] US (62/129,533) 2015-03-06

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[11] **2,971,707**  
[13] C

[51] **Int.Cl. C07D 307/52 (2006.01) A61K 31/145 (2006.01) A61K 31/17 (2006.01) A61K 31/341 (2006.01) A61K 31/381 (2006.01) A61K 31/4402 (2006.01) A61K 31/4409 (2006.01) A61K 31/443 (2006.01) C07C 381/10 (2006.01) C07D 213/38 (2006.01) C07D 405/12 (2006.01) C07D 409/06 (2006.01) C07D 409/12 (2006.01)**  
[25] FR  
[54] **SULFOXIMINE-PHENOL-AMINO ANTAGONIST DERIVATIVES OF CHEMOKINE CXCR1 AND CXCR2 RECEPTORS, AND USE THEREOF IN THE TREATMENT OF CHEMOKINE-MEDIATED PATHOLOGIES.**  
[54] **DERIVES SULFOXIMIN-PHENOL-AMINO ANTAGONISTES DES RECEPTEURS CXCR1 ET CXCR2 AUX CHIMIOKINES, ET LEUR UTILISATION DANS LE TRAITEMENT DE PATHOLOGIES MEDIEES PAR DES CHIMIOKINES.**  
[72] MUSICKI, BRANISLAV, FR  
[72] BHURRUTH-ALCOR, YUSHMA, FR  
[73] GALDERMA RESEARCH & DEVELOPMENT, FR  
[85] 2017-06-20  
[86] 2015-12-22 (PCT/FR2015/053703)  
[87] (WO2016/102877)  
[30] FR (1463209) 2014-12-23

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[11] **2,972,685**  
[13] C

[51] **Int.Cl. F03D 80/30 (2016.01) H01B 11/20 (2006.01) H01Q 1/50 (2006.01) H02G 13/00 (2006.01)**  
[25] EN  
[54] **WIND TURBINE WITH LIGHTNING PROTECTION SYSTEM**  
[54] **EOLIENNE COMPRENANT UN SYSTEME PARATONNERRE**  
[72] MOLLER ANDERSEN, KNUD, DK  
[72] KIEL JENSEN, OLE, DK  
[72] BAKER, RICHARD, GB  
[72] HANSEN, BO LARS, DK  
[73] LM WP PATENT HOLDING A/S, DK  
[85] 2017-06-29  
[86] 2016-01-12 (PCT/EP2016/050463)  
[87] (WO2016/113249)  
[30] EP (15150790.2) 2015-01-12

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[11] **2,973,418**  
[13] C

[51] **Int.Cl. G01N 21/84 (2006.01) G01N 35/00 (2006.01) G06T 7/00 (2017.01)**  
[25] EN  
[54] **QUALITY CONTROL OF AUTOMATED WHOLE-SLIDE ANALYSIS**  
[54] **CONTROLE DE QUALITE D'UNE ANALYSE AUTOMATISEE DE DIAPOSITIVES ENTIERES**  
[72] BREDNO, JOERG, US  
[72] HELLER, ASTRID, DE  
[72] HOELZLWIMMER, GABRIELE, DE  
[73] VENTANA MEDICAL SYSTEMS, INC., US  
[73] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2017-07-10  
[86] 2016-01-29 (PCT/EP2016/051865)  
[87] (WO2016/120418)  
[30] US (62/110,472) 2015-01-31

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[11] **2,973,589**  
[13] C

[51] **Int.Cl. A61B 17/80 (2006.01) A61B 17/72 (2006.01)**  
[25] EN  
[54] **WASHER PLATE**  
[54] **PLAQUE DE BOULONNAGE**  
[72] KOAY, KENNY, US  
[72] WAHL, MICHAEL, US  
[72] HAAG, RENE, US  
[72] LIMOUZE, ROBERT, US  
[72] HAIDUKEWYCH, GEORGE, US  
[72] ZIRAN, BRUCE H., US  
[72] COLLINGE, CORY A., US  
[72] LIPORACE, FRANK A., US  
[73] DEPUY SYNTHES PRODUCTS, INC., US  
[85] 2017-07-11  
[86] 2016-01-12 (PCT/US2016/013006)  
[87] (WO2016/115106)  
[30] US (14/599,419) 2015-01-16

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[11] **2,973,733**  
[13] C

[51] **Int.Cl. E04C 2/284 (2006.01) E04C 2/38 (2006.01)**  
[25] EN  
[54] **WALL ASSEMBLY**  
[54] **ENSEMBLE MUR**  
[72] FOX, PAUL J., US  
[72] CAMPBELL, PAUL, US  
[73] BASF SE, DE  
[85] 2017-07-12  
[86] 2016-01-19 (PCT/US2016/013884)  
[87] (WO2016/118493)  
[30] US (62/104,948) 2015-01-19

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[11] **2,974,077**  
[13] C

[51] **Int.Cl. E21B 19/24 (2006.01)**  
[25] EN  
[54] **POSITIONING ARRANGEMENT, ROD HANDLING DEVICE, DRILL RIG AND METHOD FOR POSITIONING OF A DRILL ROD**  
[54] **SYSTEME DE POSITIONNEMENT, DISPOSITIF DE MANIPULATION DE TIGE, APPAREIL DE FORAGE ET PROCEDE POUR LE POSITIONNEMENT D'UNE TIGE DE FORAGE**  
[72] HANNA, JAN, SE  
[72] NAGARAJ, VENUGOPAL, IN  
[73] EPIROC ROCK DRILLS AKTIEBOLAG, SE  
[85] 2017-07-17  
[86] 2016-01-14 (PCT/SE2016/050016)  
[87] (WO2016/118063)  
[30] SE (1550039-0) 2015-01-19

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[11] **2,974,478**  
[13] C

[51] **Int.Cl. F02G 1/02 (2006.01) F02G 1/05 (2006.01) F02G 1/053 (2006.01) F02G 1/057 (2006.01)**  
[25] FR  
[54] **TRANSFER - EXPANSION - REGENERATION COMBUSTION ENGINE**  
[54] **MOTEUR THERMIQUE A TRANSFERT-DETENTE ET REGENERATION**  
[72] RABHI, VIANNEY, FR  
[73] RABHI, VIANNEY, FR  
[85] 2017-07-20  
[86] 2016-01-27 (PCT/FR2016/050161)  
[87] (WO2016/120560)  
[30] FR (1550762) 2015-01-30  
[30] FR (1551593) 2015-02-25  
[30] FR (1561704) 2015-12-02

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[11] **2,974,849**  
[13] C

[51] **Int.Cl. B26D 7/02 (2006.01) B26D 7/06 (2006.01)**  
[25] EN  
[54] **DEVICE TO CLAMP LOGS DURING THE CUT THEREOF AND SAWING MACHINE COMPRISING SAID DEVICE**  
[54] **DISPOSITIF POUR SERRER DES BILLES PENDANT LEUR DECOUPE ET MACHINE A SCIER COMPRENANT LEDIT DISPOSITIF**  
[72] PARDINI, GIONATA, IT  
[73] MAXIMA S.R.L., IT  
[85] 2017-07-25  
[86] 2015-12-18 (PCT/EP2015/080567)  
[87] (WO2016/124297)  
[30] IT (BO2015A000042) 2015-02-03

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[11] **2,974,862**  
[13] C

[51] **Int.Cl. C11D 1/83 (2006.01) C11D 3/37 (2006.01) C11D 3/40 (2006.01)**  
[25] EN  
[54] **LAUNDRY LIQUID COMPOSITION COMPRISING A MIXTURE OF ANIONIC AND NON-IONIC SURFACTANTS AND DYE POLYMERS**  
[54] **COMPOSITION DE LIQUIDE DE LESSIVE COMPRENANT UN MELANGE D'AGENTS DE SURFACE ANIONIQUES ET NON IONIQUES ET DE POLYMERES DE TEINTAGE**  
[72] AUTY, CATHERINE MARY, GB  
[72] BATCHELOR, STEPHEN NORMAN, GB  
[72] BIRD, JAYNE MICHELLE, GB  
[72] TYNAN, MATTHEW, GB  
[73] UNILEVER GLOBAL IP LIMITED, GB  
[85] 2017-07-25  
[86] 2016-02-10 (PCT/EP2016/052782)  
[87] (WO2016/128433)  
[30] EP (15155023.3) 2015-02-13

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[11] **2,974,864**  
[13] C

[51] **Int.Cl. C11D 1/83 (2006.01) C11D 1/72 (2006.01) C11D 3/37 (2006.01) C11D 3/40 (2006.01)**  
[25] EN  
[54] **LAUNDRY LIQUID COMPOSITION COMPRISING A MIXTURE OF ANIONIC AND NON-IONIC SURFACTANTS AND DYE POLYMERS**  
[54] **COMPOSITION DE LIQUIDE DE LESSIVE COMPRENANT UN MELANGE D'AGENTS DE SURFACE ANIONIQUES ET NON IONIQUES ET DE POLYMERES DE TEINTAGE**  
[72] BATCHELOR, STEPHEN NORMAN, GB  
[72] BIRD, JAYNE MICHELLE, GB  
[72] TYNAN, MATTHEW, GB  
[73] UNILEVER GLOBAL IP LIMITED, GB  
[85] 2017-07-25  
[86] 2016-02-10 (PCT/EP2016/052790)  
[87] (WO2016/128441)  
[30] EP (15155021.7) 2015-02-13

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[11] **2,975,022**  
[13] C

[51] **Int.Cl. C07C 237/26 (2006.01) A61K 31/65 (2006.01) A61P 29/00 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **POLYMORPHIC FORMS OF MINOCYCLINE BASE AND PROCESSES FOR THEIR PREPARATION**

[54] **FORMES POLYMORPHIQUES D'UNE BASE DE MINOCYCLINE ET PROCÉDES DE PRÉPARATION**

[72] MENDES, ZITA, PT

[72] CACELA, CONSTANCA, PT

[72] TEN FIGAS, GLORIA, NL

[72] FERNANDEZ CASARES, ANA, NL

[73] HOVIONE SCIENTIA LIMITED, IE

[85] 2017-07-26

[86] 2016-02-12 (PCT/GB2016/050340)

[87] (WO2016/128760)

[30] PT (108223) 2015-02-13

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[11] **2,975,234**  
[13] C

[51] **Int.Cl. G02B 27/01 (2006.01) G02B 30/20 (2020.01) G02B 5/18 (2006.01)**

[25] EN

[54] **VIRTUAL AND AUGMENTED REALITY SYSTEMS AND METHODS HAVING IMPROVED DIFFRACTIVE GRATING STRUCTURES**

[54] **SYSTEMES ET PROCÉDES DE REALITE VIRTUELLE ET AUGMENTEE AYANT DES STRUCTURES DE RESEAU DE DIFFRACTION AMELIOREES**

[72] TEKOLSTE, ROBERT D., US

[72] KLUG, MICHAEL A., US

[72] GRECO, PAUL M., US

[72] SCHOWENGERDT, BRIAN T., US

[73] MAGIC LEAP, INC., US

[85] 2017-07-20

[86] 2016-01-26 (PCT/US2016/014988)

[87] (WO2016/123145)

[30] US (62/107,977) 2015-01-26

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[11] **2,975,536**  
[13] C

[51] **Int.Cl. E05F 15/611 (2015.01) E05D 7/082 (2006.01) E05D 15/02 (2006.01)**

[25] EN

[54] **AUTOMATIC DOOR OPERATION**

[54] **ACTIONNEMENT DE PORTE AUTOMATIQUE**

[72] WOJDYLA, ADAM, US

[72] DOSENBACH, SAJED, US

[72] PUGH, MICHAEL R., US

[72] WEGNER, CHRISTOPHER, US

[72] PERKINS, GREG, US

[73] THE BRAUN CORPORATION, US

[85] 2017-07-31

[86] 2016-02-16 (PCT/US2016/018020)

[87] (WO2016/133873)

[30] US (14/623,729) 2015-02-17

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[11] **2,977,284**  
[13] C

[51] **Int.Cl. H04W 48/12 (2009.01)**

[25] EN

[54] **REDUCING BLIND DECODING IN ENHANCED CARRIER AGGREGATION**

[54] **REDUCTION DU DECODAGE AVEUGLE DANS UNE AGREGATION DE PORTEUSES AMELIOREE**

[72] CHEN, WANSHI, US

[72] DAMNJANOVIC, JELENA, US

[72] GAAL, PETER, US

[73] QUALCOMM INCORPORATED, US

[85] 2017-08-18

[86] 2016-04-01 (PCT/US2016/025613)

[87] (WO2016/161316)

[30] US (62/142,378) 2015-04-02

[30] US (15/087,520) 2016-03-31

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[11] **2,977,426**  
[13] C

[51] **Int.Cl. B65D 65/14 (2006.01) B65B 11/48 (2006.01)**

[25] EN

[54] **WRAPPING PAPER**

[54] **PAPIER D'EMBALLAGE**

[72] HOFFMAN, GARY, GB

[73] WRAP NATION LIMITED, GB

[85] 2017-08-22

[86] 2016-02-15 (PCT/IB2016/050795)

[87] (WO2016/135580)

[30] GB (1503169.3) 2015-02-25

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[11] **2,977,630**  
[13] C

[51] **Int.Cl. F23N 1/02 (2006.01) F23N 5/18 (2006.01) G01F 1/86 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR MIXING COMBUSTIBLE GAS AND COMBUSTION AIR, HOT WATER INSTALLATION PROVIDED THEREWITH, CORRESPONDING THERMAL MASS FLOW SENSOR AND METHOD FOR MEASURING A MASS FLOW RATE OF A GAS FLOW**

[54] **DISPOSITIF ET PROCÉDE POUR LE MELANGE DE GAZ COMBUSTIBLE ET D'AIR DE COMBUSTION, INSTALLATION D'EAU CHAUDE EQUIPEE DE CELUI-CI, CAPTEUR DE DEBIT MASSIQUE THERMIQUE CORRESPONDANT ET PROCÉDE DE MESURE D'UN DEBIT MASSIQUE D'UN ECOULEMENT DE GAZ**

[72] COOL, PETER JAN, NL

[73] INTERGAS HEATING ASSETS B.V., NL

[85] 2017-08-23

[86] 2016-03-17 (PCT/NL2016/050188)

[87] (WO2016/148571)

[30] NL (2014473) 2015-03-17

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[11] **2,977,739**  
[13] C

[51] **Int.Cl. G01N 31/10 (2006.01) G01N 30/62 (2006.01) G01N 30/68 (2006.01)**

[25] EN

[54] **SEQUENTIAL OXIDATION-REDUCTION REACTOR FOR POST COLUMN REACTION GC/FID SYSTEM**

[54] **REACTEUR D'OXYDO-REDUCTION SEQUENTIELLE POUR SYSTEME GC/FID DE REACTION POST-COLONNE**

[72] JONES, ANDREW, US

[73] ACTIVATED RESEARCH COMPANY, LLC, US

[85] 2017-08-23

[86] 2016-03-18 (PCT/US2016/023161)

[87] (WO2016/154011)

[30] US (62/136,122) 2015-03-20

[30] US (62/258,091) 2015-11-20

[30] US (15/002,070) 2016-01-20

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[11] **2,977,949**  
[13] C

[51] **Int.Cl. A61M 16/06 (2006.01) B32B 5/26 (2006.01)**

[25] EN

[54] **CUSHION FOR PATIENT INTERFACE DEVICE, BREATHING MASK WITH CUSHION, AND METHOD AND APPARATUS FOR SAME**

[54] **COUSSIN POUR UN DISPOSITIF D'INTERFACE PATIENT, MASQUE RESPIRATOIRE AYANT UN COUSSIN, AINSI QUE PROCEDE ET APPAREIL POUR CELUI-CI**

[72] ELLIS, MICHAEL P., US  
[73] MASK SOLUTIONS LLC, US  
[85] 2017-08-25  
[86] 2015-03-26 (PCT/US2015/000041)  
[87] (WO2015/147947)  
[30] US (61/967,747) 2014-03-26

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[11] **2,978,882**  
[13] C

[51] **Int.Cl. C02F 3/00 (2006.01) C02F 1/00 (2006.01) C02F 1/58 (2006.01) C02F 3/28 (2006.01) C02F 3/30 (2006.01)**

[25] EN

[54] **CONTROL SYSTEM AND PROCESS FOR NITROGEN AND PHOSPHORUS REMOVAL**

[54] **SYSTEME ET PROCEDE DE COMMANDE POUR L'ELIMINATION DE PHOSPHORE ET D'AZOTE**

[72] LEDWELL, SAMUEL AUGUSTINE, US  
[72] TOGNA, ALBERT PAUL, US  
[73] ENVIRONMENTAL OPERATING SOLUTIONS, INC., US  
[85] 2017-09-06  
[86] 2015-10-02 (PCT/US2015/053765)  
[87] (WO2016/148740)  
[30] US (62/133,594) 2015-03-16

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[11] **2,979,907**  
[13] C

[51] **Int.Cl. C05F 17/907 (2020.01) C05F 17/964 (2020.01) B65D 21/02 (2006.01) C05F 9/02 (2006.01)**

[25] EN

[54] **COMPOST BIN**

[54] **BAC DE COMPOSTAGE**

[72] WALLIS, ANTHONY BRUCE, AU  
[72] WALLIS, RICHARD, NZ  
[72] STEVENS, GRANT, NZ  
[73] NEW ZEALAND BOX LIMITED, NZ  
[85] 2017-09-15  
[86] 2016-03-16 (PCT/AU2016/050182)  
[87] (WO2016/145486)  
[30] AU (2015900949) 2015-03-17

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[11] **2,980,254**  
[13] C

[51] **Int.Cl. B01J 23/656 (2006.01) B01J 21/06 (2006.01) B01J 35/00 (2006.01) B01J 35/10 (2006.01) B01J 37/02 (2006.01) B01J 37/04 (2006.01) C10G 2/00 (2006.01)**

[25] EN

[54] **RUTHENIUM-RHENIUM-BASED CATALYST FOR THE SELECTIVE METHANATION OF CARBON MONOXIDE**

[54] **CATALYSEUR RUTHENIUM-RHENIUM DESTINE A LA METHANATION SELECTIVE DE MONOXYDE DE CARBONE**

[72] MILANOV, ANDRIAN, DE  
[72] SCHWAB, EKKEHARD, DE  
[72] HOFFMANN, MIKE, DE  
[72] KOTREL, STEFAN, DE  
[72] ALTWASSER, STEFAN, DE  
[73] HULTEBERG CHEMISTRY & ENGINEERING AB, SE  
[85] 2017-09-19  
[86] 2016-03-23 (PCT/EP2016/056418)  
[87] (WO2016/151031)  
[30] EP (15161099.5) 2015-03-26

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[11] **2,980,321**  
[13] C

[51] **Int.Cl. G05B 11/01 (2006.01) G05F 5/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR LOCAL DEMAND OPTIMIZATION**

[54] **SYSTEMES ET PROCEDES POUR OPTIMISATION DE LA DEMANDE LOCALE**

[72] MOKHTARI, SASAN, US  
[72] NODEHI FARD HAGHIGHI, KHASHAYAR, US  
[72] AMUNDSON, ERIK ALAN, US  
[72] HEIM, DAVID, US  
[72] ERIKSSON, DEAN, US  
[72] SORVARI, ANTHONY CHARLES, US  
[73] OPEN ACCESS TECHNOLOGY INTERNATIONAL, INC., US  
[85] 2017-09-18  
[86] 2016-03-17 (PCT/US2016/022915)  
[87] (WO2016/149520)  
[30] US (62/134,208) 2015-03-17

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[11] **2,980,331**  
[13] C

[51] **Int.Cl. E21B 17/01 (2006.01)**

[25] EN

[54] **SYSTEM AND AUTONOMOUS METHOD FOR SECURING A RISER SUPPORT**

[54] **SYSTEME ET METHODE AUTONOME DE FIXATION D'UN SUPPORT DE COLONNE MONTANTE**

[72] BATISTA DE BARROS, SERGIO, BR  
[72] VITIELLO, MARCELO COSTA, BR  
[73] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR  
[86] (2980331)  
[87] (2980331)  
[22] 2017-09-25  
[30] BR (BR 10 2016 021963-9) 2016-09-23



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[11] **2,980,640**  
[13] C

[51] **Int.Cl. E04D 1/28 (2006.01) E04D 1/12 (2006.01) E04D 1/30 (2006.01)**  
[25] EN  
[54] **HIP AND RIDGE SHINGLE**  
[54] **BARDEAU CRETE ET CREUX**  
[72] GRUBKA, LAWRENCE J., US  
[72] WISE, CHRISTINA MARIE, US  
[72] THIES, JOHN ALLEN, III, US  
[73] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US  
[86] (2980640)  
[87] (2980640)  
[22] 2017-09-28  
[30] US (62/400,667) 2016-09-28

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[11] **2,981,451**  
[13] C

[51] **Int.Cl. B65D 41/42 (2006.01)**  
[25] EN  
[54] **BOTTLE CROWN WITH OPENER ASSEMBLY**  
[54] **CAPSULE DE BOUTEILLE COMPORTANT UN ENSEMBLE DECAPSULEUR**  
[72] FRISHMAN, ABE, US  
[73] WORLD BOTTLING CAP, LLC, US  
[85] 2017-09-29  
[86] 2015-01-29 (PCT/US2015/013464)  
[87] (WO2015/152986)  
[30] US (14/244,571) 2014-04-03

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[11] **2,981,562**  
[13] C

[51] **Int.Cl. C07F 9/53 (2006.01) C22B 60/02 (2006.01) G21F 9/00 (2006.01) G21F 9/06 (2006.01) G21F 9/12 (2006.01)**  
[25] FR  
[54] **COMPOUNDS WITH PHOSPHINE OXIDE AND AMINE FUNCTIONS, USEFUL AS URANIUM (VI) LIGANDS, AND USES THEREOF, IN PARTICULAR FOR EXTRACTING URANIUM (VI) FROM AQUEOUS SOLUTIONS OF SULPHURIC ACID**  
[54] **COMPOSES A FONCTIONS OXYDE DE PHOSPHINE ET AMINE, UTILES COMME LIGANDS DE L'URANIUM(VI), ET LEURS UTILISATIONS, NOTAMMENT POUR EXTRAIRE L'URANIUM(VI) DE SOLUTIONS AQUEUSES D'ACIDE SULFURIQUE**  
[72] PELLET-ROSTAING, STEPHANE, FR  
[72] LEYDIER, ANTOINE, FR  
[72] ARRACHART, GUILHEM, FR  
[72] TURGIS, RAPHAEL, FR  
[72] DUBOIS, VERONIQUE, FR  
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR  
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[85] 2017-10-02  
[86] 2016-04-01 (PCT/EP2016/057264)  
[87] (WO2016/156591)  
[30] FR (15 52886) 2015-04-03

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[11] **2,981,590**  
[13] C

[51] **Int.Cl. C11B 1/10 (2006.01) A23L 33/105 (2016.01) B01D 11/02 (2006.01) C11B 9/00 (2006.01)**  
[25] EN  
[54] **IMPROVED METHOD AND APPARATUS FOR EXTRACTING BOTANICAL OILS**  
[54] **PROCEDE ET APPAREIL AMELIORES D'EXTRACTION D'HUILES BOTANIQUES**  
[72] THOMAS, C. RUSSELL, US  
[73] NATURAL EXTRACTION SYSTEMS, LLC, US  
[85] 2017-10-02  
[86] 2016-04-04 (PCT/US2016/025867)  
[87] (WO2016/161420)  
[30] US (62/142,562) 2015-04-03

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[11] **2,982,229**  
[13] C

[51] **Int.Cl. C08L 33/14 (2006.01) C08J 3/09 (2006.01) C09K 8/502 (2006.01) E21B 33/138 (2006.01) E21B 43/25 (2006.01)**  
[25] EN  
[54] **METHOD FOR INHIBITING THE PERMEATION OF WATER IN AN EXTRACTION WELL OF A HYDROCARBON FLUID FROM AN UNDERGROUND RESERVOIR**  
[54] **PROCEDE D'INHIBITION DE LA PERMEATION DE L'EAU DANS UN Puits D'EXTRACTION D'UN FLUIDE HYDROCARBONE A PARTIR D'UN RESERVOIR SOUTERRAIN**  
[72] DEL GAUDIO, LUCILLA, IT  
[72] LOREFICE, ROBERTO, IT  
[72] MORBIDELLI, MASSIMO SILVIO, IT  
[72] MOSCATELLI, DAVIDE, IT  
[73] ENI S.P.A., IT  
[85] 2017-10-10  
[86] 2016-04-13 (PCT/IB2016/052089)  
[87] (WO2016/166672)  
[30] IT (102015000011666) 2015-04-13

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[11] **2,983,315**  
[13] C

[51] **Int.Cl. C05D 9/00 (2006.01)**  
[25] EN  
[54] **COAL-DERIVED MINERAL MATTER AS A SOIL AMENDMENT**  
[54] **MATIERE MINERALE DERIVEE DU CHARBON UTILISEE COMME AMENDEMENT DU SOL**  
[72] SWENSEN, JAMES S., US  
[72] HODSON, SIMON K., US  
[73] EARTH TECHNOLOGIES USA LIMITED, US  
[85] 2017-10-18  
[86] 2016-04-20 (PCT/US2016/028485)  
[87] (WO2016/172240)  
[30] US (14/694,735) 2015-04-23

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[11] **2,983,902**  
[13] C

[51] **Int.Cl. F01D 11/04 (2006.01) F02C 7/28 (2006.01) F16J 15/40 (2006.01)**  
[25] EN  
[54] **SEAL ARRANGEMENT IN A TURBINE AND METHOD FOR CONFINING THE OPERATING FLUID**  
[54] **ARRANGEMENT DE JOINTS D'ETANCHEITE DANS UNE TURBINE ET PROCEDE POUR CONFINER LE FLUIDE DE TRAVAIL**  
[72] GAIA, MARIO, IT  
[72] BINI, ROBERTO, IT  
[73] TURBODEN SPA, IT  
[85] 2017-10-25  
[86] 2016-06-08 (PCT/IB2016/053365)  
[87] (WO2016/207761)  
[30] IT (102015000026784) 2015-06-23

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[11] **2,983,932**  
[13] C

[51] **Int.Cl. C40B 30/00 (2006.01) C12Q 1/68 (2018.01) C40B 10/00 (2006.01) C40B 30/04 (2006.01) C40B 40/08 (2006.01) C40B 40/10 (2006.01) C40B 50/00 (2006.01) C40B 50/06 (2006.01) C40B 70/00 (2006.01) G01N 33/53 (2006.01)**  
[25] EN  
[54] **PLATFORM FOR DISCOVERY AND ANALYSIS OF THERAPEUTIC AGENTS**  
[54] **PLATEFORME DE DECOUVERTE ET D'ANALYSE D'AGENTS THERAPEUTIQUES**  
[72] HE, MOLLY, US  
[72] PREVITE, MICHAEL, US  
[72] GOLYNSKIY, MISHA, US  
[72] KELLINGER, MATTHEW WILLIAM, US  
[72] PEISAJOVICH, SERGIO, US  
[72] BOUTELL, JONATHAN MARK, US  
[73] ILLUMINA, INC., US  
[85] 2017-10-25  
[86] 2016-05-09 (PCT/US2016/031524)  
[87] (WO2016/183029)  
[30] US (62/159,710) 2015-05-11

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[11] **2,984,483**  
[13] C

[51] **Int.Cl. H01M 8/18 (2006.01)**  
[25] EN  
[54] **HYBRID BATTERY, ELECTROLYSER AND METHOD FOR STORING ELECTRICAL ENERGY**  
[54] **BATTERIE HYBRIDE, ELECTROLYSEUR ET METHODE DE STOCKAGE DE L'ENERGIE ELECTRIQUE**  
[72] MULDER, FOKKO MARTEN, NL  
[72] WENINGER, BERNHARD, NL  
[73] TECHNISCHE UNIVERSITEIT DELFT, NL  
[85] 2017-10-31  
[86] 2016-04-28 (PCT/NL2016/050304)  
[87] (WO2016/178564)  
[30] NL (2014744) 2015-05-01  
[30] NL (2015907) 2015-12-04

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[11] **2,984,721**  
[13] C

[51] **Int.Cl. E01C 13/08 (2006.01) A01C 1/00 (2006.01) D04B 1/22 (2006.01) D04B 21/10 (2006.01)**  
[25] EN  
[54] **HYBRID TURF SURFACE AND SUPPORT THEREFOR**  
[54] **SURFACE DE GAZON HYBRIDE ET SON SUPPORT**  
[72] LEE, HY0-SANG, KR  
[72] SUTHERLAND, HAMISH ROSS, AU  
[72] HEINLEIN, MARK A., US  
[73] STADIA TURF TECHNOLOGY PTE LTD., SG  
[85] 2017-11-01  
[86] 2016-09-16 (PCT/IB2016/001367)  
[87] (WO2017/046648)  
[30] US (62/220,309) 2015-09-18

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[11] **2,984,953**  
[13] C

[51] **Int.Cl. E04G 21/32 (2006.01) A62B 1/04 (2006.01) A62B 35/04 (2006.01)**  
[25] EN  
[54] **AN ANCHOR**  
[54] **DISPOSITIF D'ANCRAGE**  
[72] POLDMAA, ARVO, AU  
[72] POLDMAA, DANIEL, AU  
[73] SAFETYLINK PTY LTD, AU  
[85] 2017-11-03  
[86] 2016-04-28 (PCT/AU2016/050299)  
[87] (WO2016/176721)  
[30] AU (2015901598) 2015-05-05

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[11] **2,985,634**  
[13] C

[51] **Int.Cl. F24F 11/83 (2018.01) F24F 1/06 (2011.01) F24F 11/46 (2018.01) F25B 41/24 (2021.01)**  
[25] EN  
[54] **LIQUID TRANSFER PUMP CYCLE**  
[54] **CYCLE DE POMPAGE DE TRANSFERT DE LIQUIDE**  
[72] CRAWFORD, CARL T., US  
[72] USELTON, ROBERT B., US  
[73] LENNOX INDUSTRIES INC., US  
[86] (2985634)  
[87] (2985634)  
[22] 2017-11-15  
[30] US (15/426,200) 2017-02-07

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[11] **2,985,688**  
[13] C

[51] **Int.Cl. G01R 33/28 (2006.01) G16H 10/00 (2018.01) G16H 20/17 (2018.01) G16H 30/20 (2018.01) G16H 40/60 (2018.01) A61B 5/00 (2006.01) G01R 33/563 (2006.01)**  
[25] EN  
[54] **METHOD FOR OPTIMIZING THE PREDETERMINATION OF THE TIME PROFILE OF A CONTRAST AGENT CONCENTRATION IN DIAGNOSTIC IMAGING USING A MAGNETIC RESONANCE SYSTEM**  
[54] **PROCEDE POUR OPTIMISER LA PREDETERMINATION DU PROFIL TEMPOREL DE CONCENTRATION EN AGENT DE CONTRASTE EN IMAGERIE DIAGNOSTIQUE EN UTILISANT UN SYSTEME DE RESONANCE MAGNETIQUE**  
[72] ROHRER, MARTIN, DE  
[72] JOST, GREGOR, DE  
[72] PIETSCH, HUBERTUS, DE  
[72] REISINGER, CLAUS-PETER, DE  
[72] KRAMER, HARALD, DE  
[73] BAYER PHARMA AKTIENGESELLSCHAFT, DE  
[85] 2017-11-10  
[86] 2016-05-10 (PCT/EP2016/060371)  
[87] (WO2016/180799)  
[30] EP (15167568.3) 2015-05-13

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[11] **2,985,710**  
[13] C

[51] **Int.Cl. C07D 205/04 (2006.01) A61K 31/397 (2006.01) A61P 25/00 (2006.01) A61P 25/14 (2006.01) A61P 25/18 (2006.01) A61P 25/22 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **NOVEL AZETIDINE DERIVATIVES USEFUL AS MODULATORS OF CORTICAL CATHECOLAMINERGIC NEUROTRANSMISSION**

[54] **NOUVEAUX DERIVES D'AZETINE UTILES COMME MODULATEURS DE LA NEUROTRANSMISSION CATHECOLAMINERGIQUE CORTICALE**

[72] PETERSSON, FREDRIK (DECEASED), SE

[72] SONESSON, CLAS, SE

[73] INTEGRATIVE RESEARCH LABORATORIES SWEDEN AB, SE

[85] 2017-11-10

[86] 2016-05-20 (PCT/EP2016/061479)

[87] (WO2016/185032)

[30] EP (15168373.7) 2015-05-20

[30] SE (1650485-4) 2016-04-11

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[11] **2,986,727**  
[13] C

[51] **Int.Cl. G06T 15/08 (2011.01) G01N 21/64 (2006.01)**

[25] EN

[54] **MULTI-SPECTRAL THREE DIMENSIONAL IMAGING SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE D'IMAGERIE TRIDIMENSIONNELLE MULTI-SPECTRALE**

[72] HOLT, ROBERT W., US

[72] QUTAISH, MOHAMMED Q., US

[72] HOPPIN, JOHN W., US

[72] SEAMAN, MARC E., US

[72] HESTERMAN, JACOB Y., US

[73] EMIT IMAGING, INC., US

[85] 2017-11-21

[86] 2016-05-20 (PCT/US2016/033547)

[87] (WO2016/187549)

[30] US (62/164,800) 2015-05-21

[30] US (15/158,928) 2016-05-19

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[11] **2,986,961**  
[13] C

[51] **Int.Cl. A61K 39/145 (2006.01) A61K 9/14 (2006.01) A61K 39/385 (2006.01) A61K 47/34 (2017.01) A61P 31/16 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **NANOPARTICLE BASED VACCINE STRATEGY AGAINST SWINE INFLUENZA VIRUS**

[54] **STRATEGIE VACCINALE A BASE DE NANOPARTICULES CONTRE LE VIRUS DE LA GRIPPE PORCINE**

[72] GOURAPURA, RENUKARADHYA, US

[72] DHAKAL, SANTOSH, US

[72] HIREMATH, JAGADISH, US

[72] LEE, CHANG-WON, US

[73] OHIO STATE INNOVATION FOUNDATION, US

[85] 2017-11-22

[86] 2016-05-26 (PCT/US2016/034316)

[87] (WO2016/191553)

[30] US (62/166,344) 2015-05-26

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[11] **2,987,698**  
[13] C

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 39/395 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01) C07K 14/525 (2006.01) C07K 14/715 (2006.01)**

[25] EN

[54] **TRIMERIC TNF BINDING ANTIBODIES**

[54] **ANTICORPS SE LIANT AU FACTEUR DE NECROSE TUMORALE TRIMERIQUE**

[72] O'CONNELL, JAMES PHILIP, GB

[72] PORTER, JOHN ROBERT, GB

[72] LAWSON, ALASTAIR, GB

[72] LIGHTWOOD, DANIEL JOHN, GB

[72] WOOTTON, REBECCA JAYNE, GB

[73] UCB BIOPHARMA SRL, BE

[85] 2017-11-29

[86] 2015-10-22 (PCT/EP2015/074527)

[87] (WO2016/202414)

[30] GB (1510758.4) 2015-06-18

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[11] **2,989,192**  
[13] C

[51] **Int.Cl. H02S 40/38 (2014.01) H05B 47/00 (2020.01) E04H 12/00 (2006.01) F21S 8/08 (2006.01) F21S 9/03 (2006.01) H02J 7/00 (2006.01) H02J 7/35 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CHARGING AUTONOMOUSLY POWERED DEVICES USING VARIABLE POWER SOURCE**

[54] **SYSTEME ET PROCEDE PERMETTANT DE CHARGER DES DISPOSITIFS ALIMENTES DE MANIERE AUTONOME AU MOYEN D'UNE SOURCE DE PUISSANCE VARIABLE**

[72] TUERK, JOHN, CA

[73] CLEAR BLUE TECHNOLOGIES INC., CA

[85] 2017-12-12

[86] 2016-06-20 (PCT/CA2016/000172)

[87] (WO2016/205921)

[30] US (62/185,156) 2015-06-26

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[11] **2,989,817**  
[13] C

[51] **Int.Cl. A61B 5/0215 (2006.01) A61B 5/0205 (2006.01) A61B 5/026 (2006.01) A61M 25/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR INTRAVASCULAR MEASUREMENTS**

[54] **APPAREIL ET PROCEDE POUR MESURES INTRAVASCULAIRES**

[72] SHAM, KIN-JOE, US

[72] DONADIO, JAMES V., III., US

[72] CHAN, CHARLES C.H., US

[73] ZURICH MEDICAL CORPORATION, US

[85] 2017-12-15

[86] 2016-06-14 (PCT/US2016/037389)

[87] (WO2016/209665)

[30] US (14/747,692) 2015-06-23

[30] US (14/930,168) 2015-11-02

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[11] **2,991,431**  
[13] C

[51] **Int.Cl. F01D 5/30 (2006.01) F01D 5/06 (2006.01) F01D 5/32 (2006.01)**  
[25] FR  
[54] **ROTARY ASSEMBLY OF AN AERONAUTICAL TURBOMACHINE COMPRISING AN ADDED-ON FAN BLADE PLATFORM**  
[54] **ENSEMBLE ROTATIF DE TURBOMACHINE AERONAUTIQUE COMPRENANT UNE PLATEFORME RAPPORTEE D'AUBE DE SOUFFLANTE**  
[72] DE GAILLARD, THOMAS ALAIN, FR  
[72] BOISSON, ALEXANDRE BERNARD MARIE, FR  
[72] GIMAT, MATTHIEU ARNAUD, FR  
[72] LAGUERRE, AUDREY, FR  
[73] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2018-01-05  
[86] 2016-07-06 (PCT/FR2016/051711)  
[87] (WO2017/006054)  
[30] FR (1556459) 2015-07-08

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[11] **2,991,740**  
[13] C

[51] **Int.Cl. F01D 25/30 (2006.01) F01D 9/06 (2006.01) F01D 25/24 (2006.01) F02C 7/18 (2006.01)**  
[25] FR  
[54] **TURBINE ENGINE EXHAUST CASING WITH IMPROVED LIFETIME**  
[54] **CARTER D'ECHAPPEMENT D'UNE TURBOMACHINE A DUREE DE VIE AUGMENTEE**  
[72] JOUY, BAPTISTE MARIE AUBIN PIERRE, FR  
[72] PELLATON, BERTRAND GUILLAUME ROBIN, FR  
[72] PRESTEL, SEBASTIEN JEAN LAURENT, FR  
[73] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2018-01-08  
[86] 2016-07-20 (PCT/FR2016/051870)  
[87] (WO2017/013356)  
[30] FR (1556893) 2015-07-21

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[11] **2,992,986**  
[13] C

[51] **Int.Cl. C10L 3/10 (2006.01)**  
[25] EN  
[54] **USING METHANE REJECTION TO PROCESS A NATURAL GAS STREAM**  
[54] **UTILISATION DE REJET DE METHANE POUR TRAITER UN FLUX DE GAZ NATUREL**  
[72] YOUNT, CHRISTOPHER SCOTT, US  
[72] ZIGTEMA, JOHN RAYMOND, US  
[73] BAKER HUGHES ENERGY SERVICES LLC, US  
[85] 2018-01-18  
[86] 2016-07-16 (PCT/US2016/042684)  
[87] (WO2017/019344)  
[30] US (14/809,997) 2015-07-27

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[11] **2,993,999**  
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/351 (2006.01) A61K 31/7036 (2006.01) A61K 45/06 (2006.01) A61P 31/00 (2006.01) A61P 31/04 (2006.01)**  
[25] EN  
[54] **ANTIMICROBIAL COMPOSITIONS COMPRISING MUPIROCIN AND NEOMYCIN**  
[54] **COMPOSITIONS ANTIMICROBIENNES CONTENANT DE LA MUPIROCINE ET DE LA NEOMYCINE**  
[72] DUNMAN, PAUL M., US  
[73] UNIVERSITY OF ROCHESTER, US  
[85] 2018-01-26  
[86] 2016-08-03 (PCT/US2016/045258)  
[87] (WO2017/023977)  
[30] US (62/201,380) 2015-08-05

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[11] **2,994,179**  
[13] C

[51] **Int.Cl. H04W 72/121 (2023.01) H04W 16/14 (2009.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR REUSE OF WIRELESS COMMUNICATION RESOURCES IN NEIGHBORING COMMUNICATION NETWORKS**  
[54] **SYSTEMES ET PROCEDES POUR LA REUTILISATION DE RESSOURCES DE COMMUNICATION SANS FIL DANS DES RESEAUX DE COMMUNICATION VOISINS**  
[72] BARRIAC, GWENDOLYN DENISE, US  
[72] CHERIAN, GEORGE, US  
[72] MERLIN, SIMONE, US  
[72] ASTERJADHI, ALFRED, US  
[72] ZHOU, YAN, US  
[72] DING, GANG, US  
[72] TIAN, QINGJIANG, US  
[73] QUALCOMM INCORPORATED, US  
[85] 2018-01-29  
[86] 2016-08-18 (PCT/US2016/047594)  
[87] (WO2017/048453)  
[30] US (62/218,992) 2015-09-15  
[30] US (62/253,617) 2015-11-10  
[30] US (15/239,656) 2016-08-17

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[11] **2,994,471**  
[13] C

[51] **Int.Cl. E02B 3/20 (2006.01) B67D 9/00 (2010.01) B63B 27/34 (2006.01) B65G 67/60 (2006.01) F17D 1/08 (2006.01)**  
[25] EN  
[54] **A LIQUEFIED NATURAL GAS TERMINAL**  
[54] **BORNE DE GAZ NATUREL LIQUEFIE**  
[72] CHONG, WEN SIN, SG  
[72] EIO, CHENG KIANG, SG  
[72] BEDI, RATNESH, SG  
[72] RUILOVA VIDAL, CRISTIAN FELIPE, CA  
[73] PACIFIC ENERGY CORPORATION LIMITED, HK  
[86] (2994471)  
[87] (2994471)  
[22] 2018-02-08  
[30] SG (10201700991R) 2017-02-08

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[11] **2,995,290**  
[13] C

[51] **Int.Cl. C22C 38/14 (2006.01) C21D 9/56 (2006.01) C22C 38/12 (2006.01) C23C 2/06 (2006.01) C23C 2/12 (2006.01) C23C 2/40 (2006.01)**

[25] EN

[54] **ALUMINIUM-ZINC-HOT-DIPPED AND COLOUR-COATED STEEL PLATE HAVING A 500 MPA YIELD STRENGTH GRADE AND A HIGH ELONGATION AND A MANUFACTURING METHOD THEREOF**

[54] **TOLE D'ACIER A ALUMINAGE-GALVANISATION A CHAUD PRESENTANT UNE APTITUDE A L'ETIRAGE ELEVEE, DE QUALITE A LIMITE D'ELASTICITE DE 500 MPA ET A REVETEMENT COLORE, ET PROCEDE DE FABRIC ATION S'Y RAPPORTANT**

[72] LI, JUN, CN  
[72] XU, DECHAO, CN  
[72] LIU, XIN, CN  
[72] DING, ZHILONG, CN  
[72] REN, YULING, CN  
[72] YE, XUEWEI, CN  
[72] HU, HENGFA, CN  
[72] CHEN, HONGMING, CN  
[73] BAOSHAN IRON & STEEL CO., LTD., CN  
[85] 2018-02-09  
[86] 2016-07-25 (PCT/CN2016/091499)  
[87] (WO2017/036260)  
[30] CN (201510540305.6) 2015-08-28

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[11] **2,996,560**  
[13] C

[51] **Int.Cl. H02B 1/40 (2006.01) A47B 45/00 (2006.01) E04F 19/08 (2006.01) H02B 1/44 (2006.01)**

[25] EN

[54] **VERTICAL WALL MOUNT HOST ENCLOSURE**

[54] **ENCEINTE D'ACCUEIL MURALE VERTICALE**

[72] PAPPAS, ANDREAS, US  
[72] FRANETOVICH, JOHN, US  
[73] LEGRAND AV INC., US  
[86] (2996560)  
[87] (2996560)  
[22] 2018-02-26  
[30] US (62/464,200) 2017-02-27

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[11] **2,997,384**  
[13] C

[51] **Int.Cl. A61L 27/14 (2006.01) A61F 2/12 (2006.01) A61L 27/50 (2006.01)**

[25] EN

[54] **BIODEGRADABLE MEDICAL DEVICE FOR BREAST RECONSTRUCTION AND/OR AUGMENTATION**

[54] **DISPOSITIF MEDICAL BIODEGRADABLE POUR AUGMENTATION ET/OU RECONSTRUCTION MAMMAIRE**

[72] GERGES, IRINI, IT  
[72] MARTELLO, FEDERICO, IT  
[72] TAMPLENIZZA, MARGHERITA, IT  
[72] TOCCHIO, ALESSANDRO, IT  
[73] TENSIVE SRL, IT  
[85] 2018-03-02  
[86] 2016-09-01 (PCT/IB2016/055238)  
[87] (WO2017/037649)  
[30] IT (102015000047951) 2015-09-02

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[11] **2,998,906**  
[13] C

[51] **Int.Cl. A01N 25/04 (2006.01) A01M 1/00 (2006.01) A01N 25/18 (2006.01) A01N 25/34 (2006.01) A01P 19/00 (2006.01) F42B 12/50 (2006.01)**

[25] FR

[54] **OXO-DEGRADABLE PROJECTILES CONTAINING PHEROMONES**

[54] **PROJECTILES OXODEGRADABLES CONTENANT DES PHEROMONES**

[72] GUERRET, OLIVIER, FR  
[72] DUFOUR, SAMUEL, FR  
[73] MELCHIOR MATERIAL AND LIFE SCIENCE FRANCE, FR  
[85] 2018-03-15  
[86] 2016-09-23 (PCT/EP2016/072668)  
[87] (WO2017/050956)  
[30] FR (1559087) 2015-09-25

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[11] **2,999,587**  
[13] C

[51] **Int.Cl. H04W 52/10 (2009.01)**

[25] EN

[54] **POWER CONTROL METHOD AND APPARATUS FOR UPLINK CONTROL CHANNEL**

[54] **PROCEDE ET APPAREIL DE REGULATION DE PUISSANCE POUR CANAL DE COMMANDE DE LIAISON MONTANTE**

[72] YAN, ZHIYU, CN  
[72] LYU, YONGXIA, CN  
[72] GUAN, LEI, CN  
[72] MA, SHA, CN  
[73] HUawei TECHNOLOGIES CO., LTD., CN  
[85] 2018-03-22  
[86] 2015-11-06 (PCT/CN2015/094029)  
[87] (WO2017/049744)  
[30] CN (PCT/CN2015/090750) 2015-09-25

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[11] **3,001,931**  
[13] C

[51] **Int.Cl. C09D 183/06 (2006.01) C08G 77/08 (2006.01) C08G 77/38 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCING POLYSILOXANES WITH METAL SALTS AND PRIMARY AMINES**

[54] **METHODE DE PRODUCTION DE POLYSILOXANES COMPRENANT DES SELS METALLIQUES ET DES AMINES PRIMAIRES**

[72] AMAJJAHE, SADIK, DE  
[72] HENNING, FRAUKE, DE  
[72] KNOTT, WILFRIED, DE  
[72] DUDZIK, HORST, DE  
[72] PLATTE, GABRIELE, DE  
[72] GABER, FLORIAN, DE  
[72] DOEHLER, HARDI, DE  
[73] EVONIK OPERATIONS GMBH, DE  
[85] 2018-04-13  
[86] 2016-10-13 (PCT/EP2016/074565)  
[87] (WO2017/080749)  
[30] EP (15194036.8) 2015-11-11

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[11] **3,002,567**  
[13] C

[51] **Int.Cl. C07D 265/36 (2006.01) A61K 31/167 (2006.01) A61K 31/18 (2006.01) A61K 31/351 (2006.01) A61K 31/4025 (2006.01) A61K 31/416 (2006.01) A61K 31/4162 (2006.01) A61K 31/4196 (2006.01) A61K 31/427 (2006.01) A61K 31/498 (2006.01) A61K 31/513 (2006.01) A61K 31/538 (2006.01) A61K 31/5415 (2006.01) A61P 35/00 (2006.01) C07C 235/56 (2006.01) C07C 237/20 (2006.01) C07C 311/29 (2006.01) C07D 231/56 (2006.01) C07D 249/12 (2006.01) C07D 279/16 (2006.01) C07D 309/34 (2006.01) C07D 401/14 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **PHARMACOPHORES, COMPOUNDS AND METHODS HAVING APPLICATION IN THE TREATMENT OF CANCER THROUGH INHIBITION OF CYP17A1 AND CYP19A1**

[54] **PHARMACOPHORES, COMPOSES ET PROCEDES AYANT UNE APPLICATION DANS LE TRAITEMENT DU CANCER PAR INHIBITION DE CYP17A1 ET CYP19A1**

[72] GUMEDE, NJABULO JOYFULL, ZA

[73] MANGOSUTHU UNIVERSITY OF TECHNOLOGY, ZA

[85] 2018-04-18

[86] 2016-10-22 (PCT/ZA2016/050041)

[87] (WO2017/070718)

[30] ZA (2015/07849) 2015-10-22

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[11] **3,004,257**  
[13] C

[51] **Int.Cl. H01M 8/02 (2016.01) B29C 65/48 (2006.01) B32B 37/10 (2006.01) H01M 4/88 (2006.01) H01M 8/10 (2016.01)**

[25] EN

[54] **METHOD AND DEVICE FOR MANUFACTURING ASSEMBLY THAT INCLUDES POLYMER ELECTROLYTE MEMBRANE**

[54] **PROCEDE ET DISPOSITIF DE FABRICATION D'UN ENSEMBLE COMPRENANT UNE MEMBRANE ELECTROLYTIQUE POLYMERE**

[72] ADACHI, SHINYA, JP

[72] FUJIEDA, YUKA, JP

[72] IZUHARA, DAISUKE, JP

[72] SHINTAKU, YUTA, JP

[73] TORAY INDUSTRIES, INC., JP

[85] 2018-05-03

[86] 2016-11-15 (PCT/JP2016/083794)

[87] (WO2017/086304)

[30] JP (2015-226275) 2015-11-19

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[11] **3,007,445**  
[13] C

[51] **Int.Cl. A47C 13/00 (2006.01) A47C 7/70 (2006.01) A47C 20/04 (2006.01)**

[25] EN

[54] **VERSATILE FURNITURE ITEM**

[54] **MEUBLE POLYVALENT**

[72] CIMADAMORE, ANNA LUISA, IT

[73] HSIGN S.R.L., IT

[85] 2018-06-05

[86] 2015-12-31 (PCT/IT2015/000324)

[87] (WO2017/115390)

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[11] **3,009,743**  
[13] C

[51] **Int.Cl. B01D 21/00 (2006.01) B01D 45/08 (2006.01)**

[25] EN

[54] **COLLECTOR MODULE AND A PARTICLE TRAP ARRANGED WITH AT LEAST ONE COLLECTOR MODULE**

[54] **MODULE COLLECTEUR ET PIEGE A PARTICULES AGENCE AVEC AU MOINS UN MODULE COLLECTEUR**

[72] NORMAN, CONNY, SE

[73] NORMAN, CONNY, SE

[85] 2018-06-26

[86] 2016-11-24 (PCT/SE2016/051167)

[87] (WO2017/116295)

[30] SE (1530201-1) 2015-12-28

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[11] **3,011,371**  
[13] C

[51] **Int.Cl. A47J 31/40 (2006.01)**

[25] EN

[54] **DEVICE FOR PREPARING BABY FOOD**

[54] **DISPOSITIF DE PREPARATION DE NOURRITURE POUR BEBE**

[72] SCHLACK, STEFAN, DE

[73] SMIICS GMBH, DE

[85] 2018-07-13

[86] 2017-01-11 (PCT/EP2017/000030)

[87] (WO2017/121638)

[30] DE (10 2016 000 406.1) 2016-01-14

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[11] **3,014,089**  
[13] C

[51] **Int.Cl. E21B 33/068 (2006.01)**

[25] EN

[54] **FRAC BALL DROPPER**

[54] **DISPOSITIF DE CHUTE DE BILLES DE FRACTURATION**

[72] GOLINOWSKI, JEFF, CA

[72] BROWN, CODY, CA

[72] HOLMWOOD, LAYNE, CA

[73] TIER 1 ENERGY SOLUTIONS, INC., CA

[86] (3014089)

[87] (3014089)

[22] 2018-08-14

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[11] **3,014,775**  
[13] C

[51] **Int.Cl. H01G 9/20 (2006.01)**

[25] EN

[54] **A SOLAR CELL COMPRISING GRAINS OF A DOPED SEMICONDUCTING MATERIAL AND A METHOD FOR MANUFACTURING THE SOLAR CELL**

[54] **CELLULE SOLAIRE COMPRENANT DES GRAINS D'UN MATERIAU SEMI-CONDUCTEUR DOPE ET PROCEDE DE FABRICATION DE LA CELLULE SOLAIRE**

[72] LINDSTROM, HENRIK, SE

[73] EXEGER OPERATIONS AB, SE

[85] 2018-08-15

[86] 2017-03-01 (PCT/SE2017/050193)

[87] (WO2017/155447)

[30] SE (1650331-0) 2016-03-10

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[11] **3,016,093**  
[13] C

[51] **Int.Cl. D21H 17/41 (2006.01) D21H 21/10 (2006.01) D21H 21/18 (2006.01)**

[25] EN

[54] **PROCESS FOR MANUFACTURING PAPER AND BOARD**

[54] **PROCEDE DE FABRICATION DE PAPIER ET DE CARTON**

[72] FAUCHER, GATIEN, FR

[72] FOUGEROUSE, DAMIEN, FR

[72] HUND, RENE, FR

[73] SNF GROUP, FR

[85] 2018-08-29

[86] 2017-01-25 (PCT/FR2017/050167)

[87] (WO2017/149214)

[30] FR (1651794) 2016-03-03

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[11] **3,016,109**  
[13] C

[51] **Int.Cl. G01N 33/483 (2006.01)**

[25] EN

[54] **METHOD FOR ASSESSING PAIN CAUSED BY ADMINISTRATION OF DRUG SOLUTION, AND METHOD FOR SELECTING DRUG SOLUTION ADMINISTRATION**

[54] **PROCEDE D'EVALUATION DE LA DOULEUR CAUSEE PAR L'ADMINISTRATION D'UNE SOLUTION DE MEDICAMENT, PROCEDE DE SELECTION D'ADMINISTRATION DE SOLUTION DE MEDICAMENT**

[72] AMI, NOZOMI, JP

[72] TAMATSUKURI, SHIGERU, JP

[73] TERUMO KABUSHIKI KAISHA, JP

[85] 2018-08-29

[86] 2016-03-04 (PCT/JP2016/056741)

[87] (WO2017/149745)

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[11] **3,016,964**  
[13] C

[51] **Int.Cl. C05B 7/00 (2006.01) C01B 25/28 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCING A MONOAMMONIUM PHOSPHATE CONTAINING FERTILIZER SOLUTION**

[54] **PROCEDE DE PRODUCTION D'UNE SOLUTION D'ENGRAIS CONTENANT DU PHOSPHATE DE MONO-AMMONIUM**

[72] BOTHA, GERHARDUS TREDOUX, ZA

[73] LIQUIGRO HOLDINGS (PROPRIETARY) LIMITED, ZA

[85] 2018-09-06

[86] 2016-06-20 (PCT/IB2016/053649)

[87] (WO2017/158406)

[30] ZA (2016/01801) 2016-03-15

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[11] **3,017,654**  
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 36/05 (2006.01) A61P 17/00 (2006.01) A61P 31/10 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR THE TREATMENT AND PREVENTION OF HOOF AND CLAW DISEASES**

[54] **COMPOSITIONS DESTINEES A TRAITER ET A PREVENIR LES MALADIES DES SABOTS ET DES GRIFFES**

[72] POLYAKOV, IGOR, DE

[72] IVANOVA, LIUDMILA, DE

[73] POLYAKOV, IGOR, DE

[73] IVANOVA, LIUDMILA, DE

[85] 2018-09-13

[86] 2017-03-15 (PCT/EP2017/056145)

[87] (WO2017/158039)

[30] EP (16160532.4) 2016-03-15

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[11] **3,019,288**  
[13] C

[51] **Int.Cl. C07F 9/50 (2006.01) C07C 319/14 (2006.01) C07C 323/25 (2006.01) C07D 263/22 (2006.01) C07F 15/00 (2006.01) C07F 15/02 (2006.01) B01J 31/22 (2006.01) C07B 53/00 (2006.01)**

[25] EN

[54] **TETRADENTATE LIGAND, AND PRODUCTION METHOD THEREFOR, SYNTHETIC INTERMEDIATE THEREOF, AND TRANSITION METAL COMPLEX THEREOF**

[54] **LIGAND TETRADENTE, SON PROCEDE DE PRODUCTION, SON INTERMEDIAIRE DE SYNTHESE ET SON COMPLEXE DE METAL DE TRANSITION**

[72] NAKAYAMA, YUJI, JP

[72] YOKOYAMA, NAOTA, JP

[73] TAKASAGO INTERNATIONAL CORPORATION, JP

[85] 2018-09-27

[86] 2017-03-30 (PCT/JP2017/013435)

[87] (WO2017/170952)

[30] JP (2016-067534) 2016-03-30

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[11] **3,019,650**  
[13] C

[51] **Int.Cl. C12N 15/62 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 31/7068 (2006.01) A61K 31/7088 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/13 (2006.01) C12N 15/85 (2006.01) C12N 15/867 (2006.01)**

[25] EN

[54] **CHIMERIC RECEPTORS AND METHODS OF USE THEREOF**

[54] **RECEPTEURS CHIMERIQUES ET LEURS PROCEDES D'UTILISATION**

[72] WILTZIUS, JED, US

[72] ALVAREZ RODRIGUEZ, RUBEN, US

[72] ARVEDSON, TARA, US

[72] BAKKER, ALICE, US

[72] WU, LAWREN, US

[73] KITE PHARMA, INC., US

[73] AMGEN INC., US

[85] 2018-10-01

[86] 2017-03-31 (PCT/US2017/025573)

[87] (WO2017/173384)

[30] US (62/317,068) 2016-04-01

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[11] **3,019,889**  
[13] C

[51] **Int.Cl. B64D 37/00 (2006.01) B64D 37/02 (2006.01) G01F 1/86 (2006.01)**

[25] EN

[54] **VESSEL FOR ENCLOSING AT LEAST ONE SENSOR WITHIN A FUEL TANK**

[54] **CUVE POUR ENFERMER AU MOINS UN CAPTEUR DANS UN RESERVOIR DE CARBURANT**

[72] LAMOURETTE, DANIEL, FR

[72] DELRIEU, JULIEN, FR

[73] SAFRAN AEROTECHNICS SAS, FR

[85] 2018-10-03

[86] 2016-06-28 (PCT/IB2016/001080)

[87] (WO2018/002682)

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[11] **3,020,754**  
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 48/00 (2006.01)**

[25] EN

[54] **REAGENTS FOR TREATMENT OF OCULOPHARYNGEAL MUSCULAR DYSTROPHY (OPMD) AND USE THEREOF**

[54] **REACTIFS POUR LE TRAITEMENT DE LA DYSTROPHIE MUSCULAIRE OCULOPHARYNGEE (OPMD) ET LEUR UTILISATION**

[72] SUHY, DAVID, US

[72] GRAHAM, MICHAEL, US

[72] TROLLET, CAPUCINE, FR

[72] MALERBA, ALBERTO, GB

[72] DICKSON, GEORGE J., GB

[73] BENITEC IP HOLDINGS INC., US

[85] 2018-10-12

[86] 2017-04-13 (PCT/AU2017/050330)

[87] (WO2017/177277)

[30] US (62/322,745) 2016-04-14

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[11] **3,021,356**  
[13] C

[51] **Int.Cl. A61K 31/422 (2006.01) A61K 31/166 (2006.01) A61P 21/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF TREATING MUSCULAR DYSTROPHY WITH THROMBOXANE-A2 RECEPTOR ANTAGONISTS**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE DYSTROPHIE MUSCULAIRE A L'AIDE D'ANTAGONISTES DU RECEPTEUR DU THROMBOXANE A2**

[72] PAVLIV, LEO, US

[72] MACIAS-PEREZ, INES, US

[72] WEST, JAMES, US

[72] CARRIER, ERICA, US

[73] CUMBERLAND PHARMACEUTICALS, INC., US

[73] VANDERBILT UNIVERSITY, US

[85] 2018-10-17

[86] 2017-05-11 (PCT/US2017/032151)

[87] (WO2017/197107)

[30] US (62/334,748) 2016-05-11

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[11] **3,021,448**  
[13] C

[51] **Int.Cl. G04F 3/06 (2006.01) G04B 19/00 (2006.01) G09B 19/12 (2006.01)**

[25] EN

[54] **ADJUSTABLE TIMER**

[54] **MINUTERIE REGLABLE**

[72] ROGERS, DAVID M., US

[72] WRIGHT, TRICIA L., US

[73] TIME TIMER LLC, US

[86] (3021448)

[87] (3021448)

[22] 2018-10-19

[30] US (15/808,955) 2017-11-10

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[11] **3,022,718**  
[13] C

[51] **Int.Cl. H01H 15/02 (2006.01) H01H 3/46 (2006.01) H01H 9/48 (2006.01)**

[25] EN

[54] **HIGH-VOLTAGE SWITCH FOR SERIES/PARALLEL APPLICATIONS AND TAP CHANGER APPLICATIONS**

[54] **COMMUTATEUR HAUTE TENSION DESTINE AUX APPLICATIONS SERIELLES/PARALLELES ET AUX APPLICATIONS DE CHANGEUR DE PRISE**

[72] GOLNER, THOMAS (DECEASED), US

[72] NEMEC, JEFFREY J., US

[72] VIR, DHARAM, US

[73] PROLEC-GE WAUKESHA, INC., US

[86] (3022718)

[87] (3022718)

[22] 2018-10-30

[30] US (15/797,099) 2017-10-30

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[11] **3,023,137**  
[13] C

[51] **Int.Cl. F16H 59/44 (2006.01) B60K 20/00 (2006.01) F16H 59/36 (2006.01)**

[25] EN

[54] **SHIFT CONTROL SYSTEM FOR INDUSTRIAL VEHICLE**

[54] **MECANISME DE COMMANDE D'EMBRAYAGE POUR VEHICULE INDUSTRIEL**

[72] KOIDE, YUKIKAZU, JP

[72] NISHINO, YUICHI, JP

[73] KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, JP

[86] (3023137)

[87] (3023137)

[22] 2018-11-02

[30] JP (2017-214770) 2017-11-07



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[11] **3,026,238**  
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01) A01K 67/027 (2006.01) A61K 39/395 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01) G01N 33/574 (2006.01)**

[25] EN  
[54] **ANTI-NRP1 ANTIBODY SCREENING METHOD**  
[54] **METHODE DE CRIBLAGE D'ANTICORPS ANTI-NRP1**

[72] NAM, DO-HYUN, KR  
[72] LEE, JAE HYUN, KR  
[73] AIMED BIO INC., KR  
[85] 2018-11-30  
[86] 2017-06-02 (PCT/KR2017/005767)  
[87] (WO2017/209554)  
[30] KR (10-2016-0069360) 2016-06-03  
[30] KR (10-2017-0069141) 2017-06-02

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[11] **3,026,334**  
[13] C

[51] **Int.Cl. G06F 9/44 (2018.01) G06F 9/445 (2018.01) G06F 11/36 (2006.01)**

[25] EN  
[54] **FORMAT-SPECIFIC DATA PROCESSING OPERATIONS**  
[54] **OPERATIONS DE TRAITEMENT DE DONNEES SPECIFIQUES AU FORMAT**

[72] ISMAN, MARSHALL A., US  
[72] JOYCE, JOHN, US  
[73] AB INITIO TECHNOLOGY LLC, US  
[85] 2018-12-03  
[86] 2017-05-18 (PCT/US2017/033285)  
[87] (WO2017/209969)  
[30] US (62/345,217) 2016-06-03  
[30] US (15/433,467) 2017-02-15

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[11] **3,027,600**  
[13] C

[51] **Int.Cl. C08F 220/18 (2006.01) C08F 220/14 (2006.01) C08F 290/04 (2006.01) C10M 145/14 (2006.01)**

[25] EN  
[54] **VISCOSITY INDEX IMPROVER WITH IMPROVED SHEAR-RESISTANCE AND SOLUBILITY AFTER SHEAR**  
[54] **AMELIORATEUR D'INDICE DE VISCOSITE A RESISTANCE AU CISAILLEMENT ET SOLUBILITE APRES CISAILLEMENT AMELIOREES**

[72] KLEIN, REBECCA, DE  
[72] BECKER, HOLGER, DE  
[72] JANSSEN, DIETER, DE  
[72] SEIBEL, SEBASTIAN, DE  
[73] EVONIK OPERATIONS GMBH, DE  
[86] (3027600)  
[87] (3027600)  
[22] 2018-12-13  
[30] EP (EP17206916) 2017-12-13

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[11] **3,027,662**  
[13] C

[51] **Int.Cl. B60J 10/36 (2016.01) B23P 19/04 (2006.01)**

[25] EN  
[54] **CLIP INSTALLATION TOOL**  
[54] **OUTIL D'INSTALLATION DE CLIPS**

[72] RUSSO, JOSEPH, US  
[72] LANDER, ANDREW, US  
[73] MAGNA EXTERIORS INC., CA  
[85] 2018-12-13  
[86] 2017-06-13 (PCT/IB2017/053516)  
[87] (WO2017/216730)  
[30] US (62/349,453) 2016-06-13

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[11] **3,027,857**  
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C12N 7/04 (2006.01)**

[25] EN  
[54] **EXPRESSION OF NKG2D ACTIVATING LIGAND PROTEINS FOR SENSITIZING CANCER CELLS TO ATTACK BY CYTOTOXIC IMMUNE CELLS**  
[54] **EXPRESSION DE PROTEINES DE LIGAND D'ACTIVATION DE NKG2D POUR SENSIBILISER LES CELLULES CANCEREUSES A UNE ATTAQUE PAR DES CELLULES IMMUNITAIRES CYTOTOXIQUES**

[72] GRANDI, PAOLA, US  
[72] AMANKULOR, NDUKAKU MGBECHINYERE, US  
[72] GLORIOSO III, JOSEPH C., US  
[73] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US  
[85] 2018-12-13  
[86] 2017-06-14 (PCT/US2017/037531)  
[87] (WO2017/218689)  
[30] US (62/350,095) 2016-06-14

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[11] **3,027,903**  
[13] C

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 19/00 (2006.01)**

[25] EN  
[54] **CATWALK TUBULAR MEASUREMENT**  
[54] **MESURE TUBULAIRE DE PASSERELLE**

[72] MAGNUSON, CHRISTOPHER, US  
[72] KUNEC, ALEX, US  
[72] SAZO, MARIO, US  
[73] NABORS DRILLING TECHNOLOGIES USA, INC., US  
[86] (3027903)  
[87] (3027903)  
[22] 2018-12-18  
[30] US (62/607186) 2017-12-18

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[11] **3,029,264**  
[13] C

[51] **Int.Cl. G16H 10/60 (2018.01) G06F 21/60 (2013.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ANONYMIZATION OF HEALTH DATA AND TRANSMISSION OF HEALTH DATA FOR ANALYSIS ACROSS GEOGRAPHIC REGIONS**  
[54] **SYSTEMES ET PROCEDES POUR L'ANONYMISATION DE DONNEES DE SANTE ET LA TRANSMISSION DE DONNEES DE SANTE POUR UNE ANALYSE ENTRE DES REGIONS GEOGRAPHIQUES**  
[72] YOUSFI, RAZIK, US  
[72] GRADY, LEO, US  
[72] D'AMOURS, NATHALIE, US  
[73] HEARTFLOW, INC., US  
[85] 2018-12-21  
[86] 2017-06-27 (PCT/US2017/039601)  
[87] (WO2018/005562)  
[30] US (62/355,742) 2016-06-28

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[11] **3,029,411**  
[13] C

[51] **Int.Cl. G06V 20/40 (2022.01) G06V 20/64 (2022.01) G06V 40/16 (2022.01)**  
[25] EN  
[54] **VIDEO TO DATA**  
[54] **CONVERSION D'UNE VIDEO EN DONNEES**  
[72] SMITH, BARTLETT WADE, US  
[72] TALLEY, ALLISON A., US  
[72] SHIELDS, JOHN CARLOS, US  
[73] CELLULAR SOUTH, INC. DBA C SPIRE WIRELESS, US  
[85] 2018-12-27  
[86] 2017-06-28 (PCT/US2017/039835)  
[87] (WO2018/005701)  
[30] US (15/197,727) 2016-06-29

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[11] **3,029,877**  
[13] C

[51] **Int.Cl. C07K 14/71 (2006.01) A61K 38/17 (2006.01)**  
[25] EN  
[54] **SOLUBLE FIBROBLAST GROWTH FACTOR RECEPTOR 3 (SFGFR3) POLYPEPTIDES AND USES THEREOF**  
[54] **POLYPEPTIDES SOLUBLES FIBROBLASTES DU FACTEUR DE CROISSANCE DU RECEPTEUR 3 (SFGFR3) ET LEURS UTILISATIONS**  
[72] GOUZE, ELVIRE, FR  
[72] GARCIA, STEPHANIE, FR  
[73] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR  
[73] UNIVERSITE COTE D'AZUR, FR  
[73] PFIZER INC., US  
[85] 2019-01-04  
[86] 2017-07-07 (PCT/EP2017/067119)  
[87] (WO2018/007597)  
[30] US (62/359,607) 2016-07-07  
[30] US (62/467,478) 2017-03-06

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[11] **3,030,759**  
[13] C

[51] **Int.Cl. A61L 27/34 (2006.01) A61K 9/00 (2006.01) A61L 29/08 (2006.01)**  
[25] EN  
[54] **HYGIENIC MEDICAL DEVICES HAVING HYDROPHILIC COATINGS AND METHODS OF FORMING THE SAME**  
[54] **DISPOSITIFS MEDICAUX HYGIENIQUES AYANT UN REVETEMENT HYDROPHILE ET LEURS PROCEDES DE FORMATION**  
[72] FARRELL, DAVID J., IE  
[72] O'MAHONY, JOHN P., IE  
[72] FITZPATRICK, JAMES J., IE  
[72] O'FLYNN, PADRAIG M., IS  
[72] FLETTER, PAUL C., US  
[72] ARNOLD, WILLIAM K., US  
[72] CLARKE, JOHN T., IE  
[72] FOLEY, ADAM J., IE  
[72] CULLUM, MALFORD E., US  
[73] HOLLISTER INCORPORATED, US  
[85] 2019-01-11  
[86] 2017-07-13 (PCT/US2017/041924)  
[87] (WO2018/013805)  
[30] US (62/362,409) 2016-07-14

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[11] **3,031,078**  
[13] C

[51] **Int.Cl. B65D 88/02 (2006.01) B01D 21/24 (2006.01) B65D 90/00 (2006.01) B67C 9/00 (2006.01)**  
[25] EN  
[54] **WASTE OIL HANDLING APPARATUS**  
[54] **APPAREIL DE TRAITEMENT D'HUILE USEE**  
[72] BECKINGHAM, DARYL, CA  
[73] BECKINGHAM, DARYL, CA  
[86] (3031078)  
[87] (3031078)  
[22] 2019-01-23  
[30] US (62624934) 2018-02-01

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[11] **3,031,160**  
[13] C

[51] **Int.Cl. E06B 9/262 (2006.01) A62C 2/10 (2006.01) A62C 3/02 (2006.01) E06B 9/17 (2006.01)**  
[25] EN  
[54] **CONCERTINA SMOKE OR FIRE BARRIER**  
[54] **BARRIERE EN ACCORDEON COUPE-FUMEE OU COUPE-FEU**  
[72] REED, JAMES MARTIN, GB  
[73] COOPERS FIRE LIMITED, GB  
[85] 2019-01-17  
[86] 2017-07-18 (PCT/GB2017/052115)  
[87] (WO2018/015742)  
[30] GB (1612575.9) 2016-07-20

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[11] **3,032,043**  
[13] C

[51] **Int.Cl. B65D 5/498 (2006.01) B65D 5/493 (2006.01) B65D 5/50 (2006.01)**  
[25] EN  
[54] **PACKAGING INSERT FOR AN ADVENT CALENDER AND/OR BEER PACKAGING CONTAINER**  
[54] **INSERT D'EMBALLAGE POUR CALENDRIER DE L'AVENT ET/OU RECIPIENT D'EMBALLAGE DE BIERE**  
[72] VANDERWELL, JANICE, CA  
[72] MILLS, JEFFREY WILLIAM, CA  
[73] CRAFT BEER IMPORTERS CANADA INC., CA  
[85] 2019-01-25  
[86] 2017-07-21 (PCT/IB2017/054448)  
[87] (WO2018/025114)  
[30] US (62/369,420) 2016-08-01

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[11] **3,032,494**  
[13] C

[51] **Int.Cl. B60K 17/04 (2006.01)**  
[25] EN  
[54] **WHEEL DRIVE TRANSMISSION  
TRANSMISSION  
D'ENTRAINEMENT DE ROUE**  
[72] FORREST, JAMES L., US  
[72] JUHASZ, STEVE M., US  
[72] METZGER, DAN M., US  
[72] BEALS, JOSEPH A., US  
[73] AUBURN GEAR, LLC, US  
[85] 2019-01-30  
[86] 2016-08-15 (PCT/US2016/047038)  
[87] (WO2018/034647)

[11] **3,033,612**  
[13] C

[51] **Int.Cl. B64G 1/28 (2006.01) B64G  
1/32 (2006.01)**  
[25] EN  
[54] **SPACECRAFT CONTROL USING  
RESIDUAL DIPOLE**  
[54] **COMMANDE D'UN VEHICULE  
SPATIAL A L' AIDE D'UN DIPOLE  
RESIDUEL**  
[72] ABBASI, VIQAR, CA  
[72] DOYON, MICHEL, CA  
[73] CANADIAN SPACE AGENCY, CA  
[86] (3033612)  
[87] (3033612)  
[22] 2019-02-12

[11] **3,034,811**  
[13] C

[51] **Int.Cl. G01N 27/14 (2006.01) G01N  
27/16 (2006.01) G01N 33/22 (2006.01)**  
[25] EN  
[54] **COMBUSTIBLE GAS SENSING  
ELEMENT WITH CANTILEVER  
SUPPORT**  
[54] **ELEMENT DE DETECTION DE  
GAZ COMBUSTIBLE A SUPPORT  
EN PORTE-A-FAUX**  
[72] WANG, CHUAN-BAO, US  
[72] SALVETTI, KATHRYN, US  
[72] WANG, YONG, US  
[72] MCCLAIN, LISA, US  
[72] AN, LING, US  
[72] CORNELIUS, RICHARD E., US  
[72] PAVLISKO, BRYAN JAMES, US  
[72] HUGHES, CHARLES DENNIS, US  
[72] BELSKI, TIMOTHY JAMES, US  
[73] INDUSTRIAL SCIENTIFIC  
CORPORATION, US  
[85] 2019-02-22  
[86] 2017-07-31 (PCT/US2017/044735)  
[87] (WO2018/048517)  
[30] US (62/384,798) 2016-09-08  
[30] US (62/384,803) 2016-09-08  
[30] US (62/385,688) 2016-09-09  
[30] US (62/397,587) 2016-09-21  
[30] US (62/409,706) 2016-10-18  
[30] US (62/463,230) 2017-02-24  
[30] US (15/491,311) 2017-04-19

[11] **3,035,686**  
[13] C

[51] **Int.Cl. A61K 31/519 (2006.01) A61P  
31/04 (2006.01) C07D 487/04  
(2006.01)**  
[25] EN  
[54] **NEW USE OF TRIAZOLO(4,5-  
D)PYRIMIDINE DERIVATIVES  
FOR PREVENTION AND  
TREATMENT OF BACTERIAL  
INFECTION**  
[54] **NOUVELLE UTILISATION DE  
DERIVES DE TRIAZOLO (4,5-D)  
PYRIMIDINE POUR LA  
PREVENTION ET LE  
TRAITEMENT D'UNE INFECTION  
BACTERIENNE**  
[72] OURY, CECILE, BE  
[72] LANCELLOTTI, PATRIZIO, BE  
[73] UNIVERSITE DE LIEGE, BE  
[85] 2019-03-04  
[86] 2017-07-25 (PCT/EP2017/068811)  
[87] (WO2018/046174)  
[30] EP (16188201.4) 2016-09-09

[11] **3,039,309**  
[13] C

[51] **Int.Cl. H01J 35/06 (2006.01)**  
[25] EN  
[54] **X-RAY SOURCE  
SOURCE DE RAYONS X**  
[72] TRAVISH, GIL, GB  
[72] BETTERIDGE, PAUL, GB  
[72] EVANS, MARK, GB  
[72] HOLDEN, MARTIN, GB  
[72] MUGHAL, ABDUL SAMI, GB  
[72] SCHMIEDEHAUSEN, KRISTEN, US  
[73] ADAPTIX LTD., GB  
[85] 2019-04-03  
[86] 2016-10-19 (PCT/GB2016/053259)  
[87] (WO2018/073554)

[11] **3,039,491**  
[13] C

[51] **Int.Cl. A61M 5/142 (2006.01) A61M  
5/14 (2006.01) A61M 5/168 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR  
CONTROLLING AN INFUSION  
PUMP**  
[54] **SYSTEMES ET PROCEDES DE  
COMMANDE DE POMPE A  
PERFUSION**  
[72] VANDERVEEN, TIMOTHY W., US  
[72] BUTTERFIELD, ROBERT DWAIN, US  
[73] CAREFUSION 303, INC., US  
[85] 2019-04-04  
[86] 2017-09-21 (PCT/US2017/052784)  
[87] (WO2018/067319)  
[30] US (15/289,075) 2016-10-07

[11] **3,039,813**  
[13] C

[51] **Int.Cl. E21B 29/00 (2006.01) E21B  
33/038 (2006.01)**  
[25] EN  
[54] **TENSION CUTTING CASING AND  
WELLHEAD RETRIEVAL  
SYSTEM**  
[54] **BOITIER DE COUPE DE TENSION  
ET SYSTEME DE  
RECUPERATION DE TETE DE  
PUITS**  
[72] PRAY, JEFFERY SCOTT, US  
[72] MACK, ANTHONY T., US  
[72] SEGURA, RICHARD J., US  
[72] TEALE, DAVID W., US  
[73] WEATHERFORD TECHNOLOGY  
HOLDINGS, LLC, US  
[85] 2019-04-08  
[86] 2018-01-09 (PCT/US2018/012904)  
[87] (WO2018/132353)  
[30] US (15/403,000) 2017-01-10

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[11] **3,043,113**  
[13] C

[51] **Int.Cl. C08F 220/18 (2006.01) C09D 5/00 (2006.01)**  
[25] EN  
[54] **AQUEOUS COATING COMPOSITION**  
[54] **COMPOSITION DE REVETEMENT AQUEUSE**  
[72] QIAN, ZHEN, CN  
[72] ZHAO, YAGUANG, CN  
[72] XU, JIANMING, CN  
[72] ZHANG, QINGWEI, CN  
[72] LI, WEI, CN  
[72] LI, LING, CN  
[73] DOW GLOBAL TECHNOLOGIES LLC, US  
[73] ROHM AND HAAS COMPANY, US  
[85] 2019-05-07  
[86] 2016-11-11 (PCT/CN2016/105426)  
[87] (WO2018/086055)

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[11] **3,043,478**  
[13] C

[51] **Int.Cl. A61K 47/60 (2017.01)**  
[25] EN  
[54] **A METHOD FOR POLYALKOXYLATION OF NUCLEIC ACIDS THAT ENABLES RECOVERY AND REUSE OF EXCESS POLYALKOXYLATION REAGENT**  
[54] **PROCEDE DE POLYALCOXYLATION D'ACIDES NUCLEIQUES PERMETTANT LA RECUPERATION ET LA REUTILISATION D'UN REACTIF DE POLYALCOXYLATION EN EXCES**  
[72] BETHGE, LUCAS, DE  
[73] TME PHARMA AG, DE  
[85] 2019-05-10  
[86] 2017-11-30 (PCT/EP2017/001399)  
[87] (WO2018/099600)  
[30] EP (16201391.6) 2016-11-30

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[11] **3,044,807**  
[13] C

[51] **Int.Cl. B29D 22/00 (2006.01) B29C 49/00 (2006.01) B29C 49/22 (2006.01)**  
[25] EN  
[54] **MULTI-LAYER BARRIER FOR A CONTAINER**  
[54] **BARRIERE MULTICOUCHE POUR UN RECIPIENT**  
[72] DUBUQUE, WILLIAM J., US  
[73] AMCOR RIGID PLASTICS USA, LLC, US  
[85] 2019-05-23  
[86] 2016-12-08 (PCT/US2016/065565)  
[87] (WO2018/106240)

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[11] **3,045,132**  
[13] C

[51] **Int.Cl. G09G 5/377 (2006.01) A63F 13/424 (2014.01) A63F 13/52 (2014.01) G10L 15/26 (2006.01)**  
[25] EN  
[54] **COMMUNICATION WITH AUGMENTED REALITY VIRTUAL AGENTS**  
[54] **COMMUNICATION AVEC DES AGENTS VIRTUELS DE REALITE AUGMENTEE**  
[72] REDDAN, ANTHONY, CA  
[72] BEDARD, RENAUD, CA  
[73] SQUARE ENIX LIMITED, GB  
[86] (3045132)  
[87] (3045132)  
[22] 2019-06-03

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[11] **3,046,742**  
[13] C

[51] **Int.Cl. F04D 29/70 (2006.01) F04D 13/16 (2006.01) F04D 29/42 (2006.01) F04D 29/68 (2006.01) F15D 1/02 (2006.01) F15D 1/06 (2006.01)**  
[25] EN  
[54] **SUCTION PIPE INLET DEVICE FOR CENTRIFUGAL PUMP**  
[54] **DISPOSITIF D'ENTREE DE TUYAU D'ASPIRATION POUR POMPE CENTRIFUGE**  
[72] DON, KENNETH LLOYD, US  
[72] ECHEVERRI, LUIS, US  
[72] FRATER, JOHN SEMPLE, US  
[73] FLSMIDTH A/S, DK  
[85] 2019-06-11  
[86] 2017-12-14 (PCT/IB2017/057963)  
[87] (WO2018/109722)  
[30] DK (PA 2016 71000) 2016-12-16

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[11] **3,047,086**  
[13] C

[51] **Int.Cl. G06Q 10/20 (2023.01) G06Q 50/30 (2012.01) B60S 5/00 (2006.01) G07C 5/00 (2006.01)**  
[25] EN  
[54] **VEHICLE SERVICING SYSTEM**  
[54] **SYSTEME D'ENTRETIEN DE VEHICULE**  
[72] POEPPPEL, SCOTT C., US  
[72] LETWIN, NICHOLAS G., US  
[72] KELLY, SEAN J., US  
[73] UATC, LLC, US  
[85] 2019-06-13  
[86] 2017-12-12 (PCT/US2017/065814)  
[87] (WO2018/111874)  
[30] US (15/378,894) 2016-12-14  
[30] US (15/784,594) 2017-10-16

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[11] **3,047,584**  
[13] C

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/00 (2006.01) A61B 17/06 (2006.01)**  
[25] EN  
[54] **SUTURE FASTENER HAVING SPACED-APART LAYERS**  
[54] **DISPOSITIF DE FIXATION DE SUTURE AYANT DES COUCHES ESPACEES**  
[72] MIRAKI, MANOUCHEHR A., US  
[73] EDWARDS LIFESCIENCES CORPORATION, US  
[85] 2019-06-18  
[86] 2017-12-22 (PCT/US2017/068222)  
[87] (WO2018/125809)  
[30] US (62/439,868) 2016-12-28  
[30] US (15/847,690) 2017-12-19

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[11] **3,050,383**  
[13] C

[51] **Int.Cl. G06F 21/31 (2013.01) G06F 21/36 (2013.01) G06F 3/048 (2013.01)**  
[25] EN  
[54] **AUTHENTICATION USING EMOJI-BASED PASSWORDS**  
[54] **AUTHENTIFICATION AU MOYEN DE MOTS DE PASSE CONSTITUES D'EMOJI**  
[72] MOSSOBA, MICHAEL, US  
[72] BENKREIRA, ABDELKADAR M'HAMED, US  
[72] EDWARDS, JOSHUA, US  
[73] CAPITAL ONE SERVICES, LLC, US  
[86] (3050383)  
[87] (3050383)  
[22] 2019-07-22  
[30] US (16/045442) 2018-07-25

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[11] **3,051,693**

[13] C

- [51] **Int.Cl. A61F 5/24 (2006.01) A61F 5/03 (2006.01) A61F 5/449 (2006.01)**  
[25] EN  
[54] **HERNIA BELT**  
[54] **CEINTURE HERNIAIRE**  
[72] CISKO, GEORGE J., US  
[72] AUGUSTYN, CHRISTINA, US  
[72] PARK, RYAN S., US  
[72] RAKEVICIUS, DONALD, US  
[72] WANG, XUEMEI, US  
[72] KIA, STEPHANIE, US  
[72] BURGER, JEFFREY R., US  
[73] HOLLISTER INCORPORATED, US  
[85] 2019-07-25  
[86] 2018-01-30 (PCT/US2018/015955)  
[87] (WO2018/144456)  
[30] US (62/453,155) 2017-02-01  
[30] US (62/551,370) 2017-08-29

[11] **3,051,749**

[13] C

- [51] **Int.Cl. E05B 47/06 (2006.01)**  
[25] EN  
[54] **LOCK DEVICES, SYSTEMS, AND METHODS**  
[54] **DISPOSITIFS DE TYPE SERRURE, SYSTEMES ET PROCEDES ASSOCIES**  
[72] MCKIBBEN, AARON P., US  
[72] BARKER, KENTON HAYES, US  
[73] SCHLAGE LOCK COMPANY LLC, US  
[86] (3051749)  
[87] (3051749)  
[22] 2013-01-30  
[62] 2,866,296  
[30] US (61/592,358) 2012-01-30

[11] **3,052,076**

[13] C

- [51] **Int.Cl. H01L 31/04 (2014.01)**  
[25] EN  
[54] **CONTACT PASSIVATION FOR PEROVSKITE OPTOELECTRONICS**  
[54] **PASSIVATION DE CONTACT POUR OPTOELECTRONIQUE EN PEROVSKITE**  
[72] TAN, HAIREN, CA  
[72] LAN, XINZHENG, US  
[72] YANG, ZHENYU, CA  
[72] HOOGLAND, SJOERD, CA  
[72] SARGENT, EDWARD, CA  
[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA  
[85] 2019-07-30  
[86] 2018-01-30 (PCT/CA2018/050109)  
[87] (WO2018/137048)  
[30] US (62/451,938) 2017-01-30

[11] **3,054,124**

[13] C

- [51] **Int.Cl. B01D 53/047 (2006.01) B01J 8/02 (2006.01)**  
[25] EN  
[54] **RADIAL FLOW ADSORPTION VESSEL COMPRISING FLEXIBLE SCREEN**  
[54] **RECIPIENT D'ADSORPTION A ECOULEMENT RADIAL AVEC ECRAN SOUPLE**  
[72] KIFFER, MICAH S., US  
[72] O'NEILL, CHRISTOPHER MICHAEL, US  
[72] TENTARELLI, STEPHEN CLYDE, US  
[73] AIR PRODUCTS AND CHEMICALS, INC., US  
[86] (3054124)  
[87] (3054124)  
[22] 2019-09-04  
[30] US (16/124,712) 2018-09-07

[11] **3,054,431**

[13] C

- [51] **Int.Cl. A61B 34/37 (2016.01) A61B 34/00 (2016.01) B25J 3/00 (2006.01) B25J 18/00 (2006.01)**  
[25] EN  
[54] **COUPLER TO ATTACH ROBOTIC ARM TO SURGICAL TABLE**  
[54] **COUPLEUR POUR FIXER UN BRAS ROBOTISE A UNE TABLE CHIRURGICALE**  
[72] GROUT, WAYNE, US  
[72] CAGLE, DAVID JAMES, US  
[72] TIMM, RICHARD WILLIAM, US  
[72] REESE, BRENDAN C., US  
[72] SCHALLER, MICHAEL P., US  
[72] CAMPBELL, ROBERT J., JR., US  
[73] VERB SURGICAL INC., US  
[85] 2019-08-22  
[86] 2018-03-26 (PCT/US2018/024393)  
[87] (WO2018/183212)  
[30] US (62/476,816) 2017-03-26  
[30] US (15/934,709) 2018-03-23

[11] **3,054,520**

[13] C

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[25] EN  
[54] **TACTICAL BELT OR BELT ACCESSORY**  
[54] **CEINTURE TACTIQUE OU ACCESSOIRE DE CEINTURE**  
[72] HAWKINS, DAVID ROBERT L., CA  
[73] HAWKINS, DAVID ROBERT L., CA  
[86] (3054520)  
[87] (3054520)  
[22] 2019-09-06  
[30] US (62/728,520) 2018-09-07

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[13] C

[51] **Int.Cl. G06N 3/02 (2006.01) G01N 33/46 (2006.01) G06T 1/40 (2006.01)**  
[25] EN  
[54] **METHOD OF BOARD LUMBER GRADING USING DEEP LEARNING TECHNIQUES**  
[54] **PROCEDE DE CLASSEMENT DE BOIS D'OEUVRE A L'AIDE DE TECHNIQUES D'APPRENTISSAGE PROFOND**  
[72] NARASIMHAN, REVATHY, US  
[72] FREEMAN, PATRICK, US  
[72] ARONSON, MICHAEL HAYDEN, US  
[72] JOHNSRUDE, KEVIN, US  
[72] MOSBRUCKER, CHRIS, US  
[72] ROBIN, DAN, US  
[72] SHEAR, RYAN T., US  
[72] WEINTRAUB, JOSEPH H., US  
[72] MORTENSEN, ERIC N., US  
[73] LUCIDYNE TECHNOLOGIES, INC., US  
[85] 2019-08-28  
[86] 2018-03-05 (PCT/US2018/020970)  
[87] (WO2018/169712)  
[30] US (62/470,732) 2017-03-13

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[13] C

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/06 (2006.01)**  
[25] EN  
[54] **SUTURE GUIDE AND RELATED PARTS, KITS, AND METHODS**  
[54] **GUIDE DE SUTURE ET PARTIES, KITS ET PROCEDES ASSOCIES**  
[72] DE REZENDE NETO, JOAO BAPTISTA, CA  
[73] UNITY HEALTH TORONTO, CA  
[85] 2019-09-06  
[86] 2018-03-08 (PCT/CA2018/050276)  
[87] (WO2018/161169)  
[30] US (62/468,582) 2017-03-08

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[13] C

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[25] EN  
[54] **ANTIDANDRUFF HAIR CARE COMPOSITIONS COMPRISING SELECT THICKENING POLYMERS**  
[54] **COMPOSITIONS DE SOINS CAPILLAIRES ANTIPELLICULAIRES EMPRENANT DES POLYMERES EPAISSISSANTS SELECTIONNES**  
[72] CHANG, DEBORA W., US  
[72] JOHNSON, ERIC SCOTT, US  
[72] KROGER LYONS, KELLY ROSE, US  
[72] FIGUEROA, REBEKAH RUTH, US  
[72] BUREIKO, ANDREI SERGEEVICH, US  
[73] THE PROCTER & GAMBLE COMPANY, US  
[85] 2019-09-10  
[86] 2018-04-25 (PCT/US2018/029315)  
[87] (WO2018/200646)  
[30] US (62/490,307) 2017-04-26

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[13] C

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[25] EN  
[54] **LONGSPAN STAY-IN-PLACE LINERS**  
[54] **REVETEMENTS DE MAINTIEN EN PLACE A GRANDE PORTEE**  
[72] RICHARDSON, GEORGE DAVID, CA  
[72] FANG, ZI LI, CA  
[72] KRIVULIN, SEMION, CA  
[73] CFS CONCRETE FORMING SYSTEMS INC., CA  
[85] 2019-09-11  
[86] 2018-04-03 (PCT/CA2018/050409)  
[87] (WO2018/184103)  
[30] US (62/481,111) 2017-04-03  
[30] US (62/578,287) 2017-10-27

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[13] C

[51] **Int.Cl. F17D 3/01 (2006.01) F17D 1/04 (2006.01) F17D 5/00 (2006.01) F17D 5/06 (2006.01) F17D 5/02 (2006.01)**  
[25] EN  
[54] **MONITORING SYSTEM FOR A SECTION OR A COMPONENT OF A PIPELINE FOR THE TRANSPORT OF HYDROCARBONS INSTALLED IN A HAZARD SITE**  
[54] **SYSTEME DE SURVEILLANCE D'UNE SECTION OU D'UN COMPOSANT D'UNE CONDUITE DE TRANSPORT D'HYDROCARBURES VERS UN SITE A RISQUE**  
[72] BARBAGLI, SERENA, IT  
[73] ODORI, MAURO, IT  
[85] 2019-09-12  
[86] 2018-03-13 (PCT/IB2018/051669)  
[87] (WO2018/167668)  
[30] IT (102017000027345) 2017-03-13

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[13] C

[51] **Int.Cl. C07C 309/15 (2006.01)**  
[25] EN  
[54] **PROCESS FOR ENHANCED OIL RECOVERY USING A (CO)POLYMER OF A HYDRATED CRYSTALLINE FORM OF 2-ACRYLAMIDO-2-METHYLPROPANE SULFONIC ACID**  
[54] **PROCEDE DE RECUPERATION ASSISTEE DU PETROLE UTILISANT UN (CO)POLYMERE D'UNE FORME CRISTALLINE HYDRATEE DE L'ACIDE 2-ACRYLAMIDO-2-METHYLPROPANE SULFONIQUE**  
[72] FAVERO, CEDRICK, FR  
[72] KIEFFER, JOHANN, FR  
[72] DAGUERRE, FREDERIC, FR  
[73] SNF GROUP, FR  
[85] 2019-09-18  
[86] 2018-03-19 (PCT/FR2018/050659)  
[87] (WO2018/172682)  
[30] FR (1752288) 2017-03-20

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[51] **Int.Cl. A61F 2/24 (2006.01) A61B 17/00 (2006.01) A61B 17/04 (2006.01) A61B 17/34 (2006.01)**

[25] EN

[54] **DISTAL ANCHOR APPARATUS AND METHODS FOR MITRAL VALVE REPAIR**

[54] **APPAREILS D'ANCRAGE DISTAL ET PROCEDES DE REPARATION DE VALVULE MITRALE**

[72] D'AMBRA, MICHAEL NICHOLAS, US

[72] CORTEZ, FELINO V., JR., US

[72] GAMMIE, JAMES S., US

[72] WILSON, PETER, US

[72] EPSTEIN, STEPHEN, US

[72] COURNANE, STEPHEN, US

[72] ETHERIDGE, JULIE MARIE, US

[72] BOYD, PETER, US

[73] HARPOON MEDICAL, INC., US

[73] UNIVERSITY OF MARYLAND, BALTIMORE, US

[85] 2019-09-25

[86] 2018-04-06 (PCT/US2018/026570)

[87] (WO2018/187753)

[30] US (62/482,468) 2017-04-06

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[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) C07K 16/30 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR DETECTING AND TREATING PROSTATE CANCER USING PROGASTRIN BINDING MOLECULE**

[54] **COMPOSITIONS ET PROCEDES DE DETECTION ET DE TRAITEMENT DU CANCER DE LA PROSTATE A L'AIDE D'UNE MOLECULE DE LIAISON DE PROGASTRINE**

[72] PRIEUR, ALEXANDRE, FR

[73] PROGASTRINE ET CANCERS S.A R.L., LU

[85] 2019-09-27

[86] 2018-03-30 (PCT/EP2018/058344)

[87] (WO2018/178363)

[30] EP (17305381.0) 2017-03-30

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[13] C

[51] **Int.Cl. E21B 43/04 (2006.01) E21B 17/046 (2006.01)**

[25] EN

[54] **SHUNT TUBE CONNECTION ASSEMBLY**

[54] **ENSEMBLE DE RACCORDEMENT DE TUBE DE DERIVATION**

[72] SESSA, MICHAEL JOSEPH, US

[72] BRASSEAU, JASON, US

[72] CROWLEY, SCOTT, US

[72] HORNSBY, JOSHUA, US

[72] MCNAMEE, STEPHEN, US

[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US

[85] 2019-10-07

[86] 2018-04-12 (PCT/US2018/027232)

[87] (WO2018/191453)

[30] US (62/484,825) 2017-04-12

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[11] **3,060,023**  
[13] C

[51] **Int.Cl. B08B 9/02 (2006.01) B08B 3/04 (2006.01) B08B 3/10 (2006.01) F16L 55/24 (2006.01) F16L 58/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR MOVING SUBSTANCES AND PREVENTING CORROSION IN A CONDUIT**

[54] **PROCEDE ET SYSTEME DESTINES A DEPLACER DES SUBSTANCES ET EMPECHER LA CORROSION DANS UN CONDUIT**

[72] BELIAEVA, ELLINA, MX

[73] BELIAEVA, ELLINA, MX

[85] 2019-10-15

[86] 2018-03-29 (PCT/IB2018/052159)

[87] (WO2018/189609)

[30] US (62/485,933) 2017-04-15

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[11] **3,060,162**  
[13] C

[51] **Int.Cl. G02B 5/18 (2006.01) G02B 27/00 (2006.01) G02B 27/01 (2006.01) G02B 27/42 (2006.01)**

[25] EN

[54] **DIFFRACTIVE GRATING WITH VARIABLE DIFFRACTION EFFICIENCY AND METHOD FOR DISPLAYING AN IMAGE**

[54] **RESEAU DE DIFFRACTION A EFFICACITE DE DIFFRACTION VARIABLE ET PROCEDE D'AFFICHAGE D'UNE IMAGE**

[72] VARTIAINEN, ISMO, FI

[72] OLKKONEN, JUUSO, FI

[72] RAHOMAKI, JUSSI, FI

[73] DISPELIX OY, FI

[85] 2019-10-16

[86] 2018-05-08 (PCT/FI2018/050340)

[87] (WO2018/206847)

[30] FI (20175412) 2017-05-08

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[11] **3,061,985**  
[13] C

[51] **Int.Cl. C07C 229/30 (2006.01) C08F 222/10 (2006.01) C09D 4/06 (2006.01) C09D 11/00 (2014.01)**

[25] EN

[54] **AMINO (METH)ACRYLATES**

[54] **(METH)ACRYLATES AMINO**

[72] POELMANS, KEVIN, BE

[72] CAPPELLE, STEVEN, BE

[72] PEETERS, STEPHAN, BE

[73] ALLNEX BELGIUM SA, BE

[85] 2019-10-21

[86] 2018-05-08 (PCT/EP2018/061788)

[87] (WO2018/206540)

[30] EP (17170312.7) 2017-05-10

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[13] C

[51] **Int.Cl. H04N 19/52 (2014.01) H04N 19/176 (2014.01) H04N 19/59 (2014.01)**

[25] EN

[54] **IMAGE CODING METHOD, IMAGE CODING APPARATUS, IMAGE DECODING METHOD, IMAGE DECODING APPARATUS, AND IMAGE CODING AND DECODING APPARATUS**

[54] **PROCEDE DE CODAGE D'IMAGE, DISPOSITIF DE CODAGE D'IMAGE, PROCEDE DE DECODAGE D'IMAGE, DISPOSITIF DE DECODAGE D'IMAGE, ET DISPOSITIF DE CODAGE/DECODAGE D'IMAGE**

[72] MATSUNOBU, TORU, JP  
[72] NISHI, TAKAHIRO, JP  
[72] SASAI, HISAO, JP  
[72] SUGIO, TOSHIYASU, JP  
[72] TANIKAWA, KYOKO, JP  
[72] SHIBAHARA, YOUJI, JP  
[73] SUN PATENT TRUST, US  
[86] (3062382)  
[87] (3062382)  
[22] 2012-05-24  
[62] 2,834,123  
[30] US (61/490,777) 2011-05-27

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[11] **3,063,992**  
[13] C

[51] **Int.Cl. E04C 2/36 (2006.01) B31F 1/07 (2006.01) B31F 1/30 (2006.01) E04C 2/32 (2006.01)**

[25] EN

[54] **A CORRUGATED CONSTRUCTION ELEMENT**

[54] **ELEMENT DE CONSTRUCTION ONDULE**

[72] DASH, GIRISH, IN  
[72] SHINDE, SHAIENDRA, IN  
[72] AHMED, RIZWAN, IN  
[73] SAINT-GOBAIN PLACO, FR  
[85] 2019-11-18  
[86] 2018-04-10 (PCT/IN2018/050205)  
[87] (WO2018/216028)  
[30] IN (201741018271) 2017-05-24

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[11] **3,064,903**  
[13] C

[51] **Int.Cl. C12Q 1/6876 (2018.01) C12Q 1/6869 (2018.01) C12M 1/34 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **SENSOR AND SENSING SYSTEM**

[54] **CAPTEUR ET SYSTEME DE DETECTION**

[72] MOON, JOHN, US  
[73] ILLUMINA, INC, US  
[85] 2019-12-12  
[86] 2019-06-13 (PCT/US2019/036979)  
[87] (WO2020/005557)  
[30] US (62/692,468) 2018-06-29  
[30] NL (N2021376) 2018-07-23

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[11] **3,066,278**  
[13] C

[51] **Int.Cl. H04J 11/00 (2006.01) H04B 7/24 (2006.01) H04J 3/22 (2006.01)**

[25] EN

[54] **TRANSMISSION METHOD, TRANSMISSION DEVICE, RECEPTION METHOD, AND RECEPTION DEVICE**

[54] **PROCEDE DE TRANSMISSION, DISPOSITIF DE TRANSMISSION, PROCEDE DE RECEPTION ET DISPOSITIF DE RECEPTION**

[72] MURAKAMI, YUTAKA, JP  
[72] KIMURA, TOMOHIRO, JP  
[72] OUCHI, MIKIHIRO, JP  
[73] SUN PATENT TRUST, US  
[86] (3066278)  
[87] (3066278)  
[22] 2011-10-17  
[62] 3,017,162  
[30] JP (2010-234061) 2010-10-18  
[30] JP (2010-275164) 2010-12-09

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[11] **3,066,397**  
[13] C

[51] **Int.Cl. G09G 5/04 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR RENDERING COLOR IMAGES**

[54] **PROCEDE PERMETTANT DE RESTITUER DES IMAGES EN COULEURS**

[72] BUCKLEY, EDWARD, US  
[72] CROUNSE, KENNETH R., US  
[72] TELFER, STEPHEN J., US  
[72] SAINIS, SUNIL KRISHNA, US  
[73] E INK CORPORATION, US  
[86] (3066397)  
[87] (3066397)  
[22] 2018-03-02  
[62] 3,050,122  
[30] US (62/467,291) 2017-03-06  
[30] US (62/509,031) 2017-05-19  
[30] US (62/509,087) 2017-05-20  
[30] US (62/585,614) 2017-11-14  
[30] US (62/585,761) 2017-11-14  
[30] US (62/585,692) 2017-11-14  
[30] US (62/591,188) 2017-11-27

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[11] **3,066,924**  
[13] C

[51] **Int.Cl. H04W 72/00 (2023.01)**

[25] EN

[54] **RESOURCE SCHEDULING METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**

[54] **PROCEDE D'ORDONNANCEMENT DE RESSOURCES, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**

[72] TANG, HAI, CN  
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2019-12-11  
[86] 2017-08-04 (PCT/CN2017/096118)  
[87] (WO2019/024120)



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[13] C

[51] **Int.Cl. B60J 5/04 (2006.01) B60J 5/10 (2006.01) B60S 1/58 (2006.01)**  
[25] EN  
[54] **LIFTGATE REINFORCEMENT ARRANGEMENTS**  
[54] **AGENCEMENTS DE RENFORCEMENT DE HAYON**  
[72] KUNTZE, CHRISTOPHER, US  
[72] WOODSON, PAUL, US  
[72] CHAAYA, RIAD, US  
[72] PABIAN, MIKE, US  
[73] MAGNA EXTERIORS INC., CA  
[85] 2019-12-18  
[86] 2018-06-29 (PCT/US2018/040242)  
[87] (WO2019/006271)  
[30] US (62/527,569) 2017-06-30

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[11] **3,068,944**  
[13] C

[51] **Int.Cl. G08B 5/38 (2006.01) H04B 10/11 (2013.01)**  
[25] EN  
[54] **LIGHT-BASED COMMUNICATIONS SYSTEM**  
[54] **SYSTEME DE COMMUNICATION BASE SUR LA LUMIERE**  
[72] PARKER, WILLIAM P., US  
[72] LINDLE, JESSICA, US  
[72] GALLO, ERIC, US  
[72] STRAUSS, MICHAEL, US  
[72] JOHNSON, ANDREW, US  
[73] MARSUPIAL HOLDINGS, INC., US  
[85] 2020-01-03  
[86] 2018-07-03 (PCT/US2018/040810)  
[87] (WO2019/010237)  
[30] US (62/528,324) 2017-07-03

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[11] **3,069,122**  
[13] C

[51] **Int.Cl. G01N 1/40 (2006.01) B01D 61/22 (2006.01) B01L 3/00 (2006.01) G01N 1/28 (2006.01) B01L 7/00 (2006.01) G01N 35/10 (2006.01)**  
[25] EN  
[54] **FINE TANK PRESSURE CONTROL USING THERMAL ENERGY FOR PREPARING CYTOLOGICAL SPECIMENS FROM PATIENT SAMPLES**  
[54] **COMMANDE DE PRESSION FINE DE RESERVOIR UTILISANT L'ENERGIE THERMIQUE PERMETTANT LA PREPARATION D'ECHANTILLONS CYTOLOGIQUES A PARTIR D'ECHANTILLONS OBTENUS AUPRES D'UN PATIENT**  
[72] HUNT, BARRY F., US  
[73] HOLOGIC, INC., US  
[85] 2020-01-06  
[86] 2018-05-31 (PCT/US2018/035382)  
[87] (WO2019/018072)  
[30] US (15/652,122) 2017-07-17

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[11] **3,070,550**  
[13] C

[51] **Int.Cl. G01N 21/00 (2006.01) B01J 19/00 (2006.01) B01J 37/04 (2006.01) C08F 210/16 (2006.01)**  
[25] EN  
[54] **METHODS FOR DETERMINING TRANSITION METAL COMPOUND CONCENTRATIONS IN MULTICOMPONENT LIQUID SYSTEMS**  
[54] **PROCEDES DE DETERMINATION DE CONCENTRATIONS DE COMPOSES DE METAUX DE TRANSITION DANS DES SYSTEMES LIQUIDES A COMPOSANTS MULTIPLES**  
[72] YANG, QING, US  
[72] BUCK, RICHARD M., US  
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US  
[85] 2020-01-20  
[86] 2018-07-10 (PCT/US2018/041430)  
[87] (WO2019/018157)  
[30] US (15/655,929) 2017-07-21  
[30] US (16/006,976) 2018-06-13

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[11] **3,070,649**  
[13] C

[51] **Int.Cl. A63F 1/00 (2006.01) A63F 13/80 (2014.01) G07F 17/32 (2006.01)**  
[25] EN  
[54] **GAME WITH INTERIM BETTING**  
[54] **METHODE DE RECEPTION ET METHODE DE TRANSMISSION**  
[72] AMAITIS, LEE, GB  
[72] BURMAN, KEVIN, AU  
[73] CFPH, LLC, US  
[86] (3070649)  
[87] (3070649)  
[22] 2008-11-26  
[62] 2,644,822  
[30] US (12/015,942) 2008-01-17

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[13] C

[51] **Int.Cl. G10L 13/033 (2013.01)**  
[25] EN  
[54] **UPDATING A SPEECH GENERATION SETTING BASED ON USER SPEECH**  
[54] **MISE A JOUR DES PARAMETRES DE SYNTHESE VOCALE EN FONCTION DE LA PAROLE DE L'UTILISATEUR**  
[72] EDWARDS, JOSHUA, US  
[72] MOSSOBA, MICHAEL, US  
[72] BENKREIRA, ABDELKADAR M'HAMED, US  
[72] COLEVAS, ALEXANDRA, US  
[73] CAPITAL ONE SERVICES, LLC, US  
[86] (3071060)  
[87] (3071060)  
[22] 2020-02-04  
[30] US (16/268937) 2019-02-06

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[11] **3,071,061**  
[13] C

[51] **Int.Cl. H04M 3/523 (2006.01) G06N 20/00 (2019.01) H04M 3/493 (2006.01)**

[25] EN

[54] **IDENTIFYING A MEDIA ITEM TO PRESENT TO A USER DEVICE VIA A COMMUNICATION SESSION**

[54] **IDENTIFICATION D'UN ELEMENT MULTIMEDIA POUR TRANSMISSION A UN DISPOSITIF UTILISATEUR PAR SESSION DE COMMUNICATION**

[72] MOSSOBA, MICHAEL, US  
[72] EDWARDS, JOSHUA, US  
[72] COLEVAS, ALEXANDRA, US  
[72] BENKREIRA, ABDELKADAR M'HAMED, US  
[73] CAPITAL ONE SERVICES, LLC, US  
[86] (3071061)  
[87] (3071061)  
[22] 2020-02-04  
[30] US (16/268923) 2019-02-06

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[11] **3,071,471**  
[13] C

[51] **Int.Cl. G05D 23/30 (2006.01) C03B 27/012 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING DISCHARGING OF GLASS PLATE IN GLASS PLATE TEMPERING TECHNOLOGY PROCESS**

[54] **PROCEDE DE COMMANDE DE DECHARGE DE PLAQUE DE VERRE DANS LE CADRE D'UN PROCESSUS DE TECHNOLOGIE DE TREMPÉ DE PLAQUE DE VERRE**

[72] ZHAO, YAN, CN  
[72] DOU, GAOFENG, CN  
[72] JIANG, CHUNWEI, CN  
[73] LUOYANG LANDGLASS TECHNOLOGY CO., LTD., CN  
[85] 2020-01-29  
[86] 2018-04-11 (PCT/CN2018/082667)  
[87] (WO2019/029180)  
[30] CN (201710667730.0) 2017-08-07

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[11] **3,072,317**  
[13] C

[51] **Int.Cl. C22B 23/00 (2006.01) C22B 3/10 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01)**

[25] EN

[54] **METHOD FOR SEPARATING COPPER FROM NICKEL AND COBALT**

[54] **PROCEDE DE SEPARATION DE CUIVRE A PARTIR DE NICKEL ET DE COBALT**

[72] HIGAKI, TATSUYA, JP  
[72] TAKENOUCHI, HIROSHI, JP  
[72] KOBAYASHI, HIROSHI, JP  
[72] ASANO, SATOSHI, JP  
[73] SUMITOMO METAL MINING CO., LTD., JP  
[85] 2020-02-06  
[86] 2018-08-21 (PCT/JP2018/030801)  
[87] (WO2019/064996)  
[30] JP (2017-191906) 2017-09-29

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[11] **3,072,701**  
[13] C

[51] **Int.Cl. F42B 6/04 (2006.01) F42B 6/06 (2006.01) F42B 6/08 (2006.01)**

[25] EN

[54] **ARCHERY SHAFT HAVING A BRAIDED CHARACTERISTIC**

[54] **FUT D'ARCHERIE A CARACTERISTIQUE TRESSEE**

[72] GORDON, DONALD M., US  
[72] PILPEL, EDWARD D., US  
[73] BLUE CURTAIN LLC, US  
[86] (3072701)  
[87] (3072701)  
[22] 2017-05-05  
[62] 2,966,493  
[30] US (62/332,016) 2016-05-05

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[11] **3,072,775**  
[13] C

[51] **Int.Cl. A47B 96/06 (2006.01) A47B 61/00 (2006.01) A47B 96/00 (2006.01) F16B 12/00 (2006.01)**

[25] EN

[54] **SHELVING ASSEMBLY AND HARDWARE**

[54] **ENSEMBLE D'ETAGERE ET MATERIEL**

[72] BISHOP, RYAN BARCLAY, US  
[72] RICHARD, MAXIME, US  
[73] CLAIRSON, INC., US  
[86] (3072775)  
[87] (3072775)  
[22] 2020-02-14  
[30] US (62/806,360) 2019-02-15  
[30] US (16/746,361) 2020-01-17

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[11] **3,072,895**  
[13] C

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61K 39/25 (2006.01)**

[25] EN

[54] **VACCINE ADJUVANT COMPRISING LIPOPEPTIDE-INSERTED LIPOSOME AS EFFECTIVE INGREDIENT AND USE THEREOF**

[54] **ADJUVANT POUR VACCIN COMPRENANT UN LIPOSOME DANS LEQUEL EST INSERE UN LIPOPEPTIDE A TITRE DE PRINCIPE ACTIF ET SON UTILISATION**

[72] YUM, JUNG SUN, KR  
[72] AHN, BYUNG CHEOL, KR  
[72] JO, HYUN JIN, KR  
[72] BAEK, SEUNG HEE, KR  
[72] JUNG, EUN JUNG, KR  
[72] JEONG, SOOKYUNG, KR  
[73] CHA VACCINE RESEARCH INSTITUTE CO., LTD, KR  
[85] 2020-02-12  
[86] 2018-08-10 (PCT/KR2018/009173)  
[87] (WO2019/035605)  
[30] KR (10-2017-0103788) 2017-08-16  
[30] KR (10-2018-0005418) 2018-01-16

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[11] **3,073,976**  
[13] C

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

[25] EN

[54] **OBTURATOR ASSEMBLY WITH SELECTIVELY CONTROLLABLE FLUID FLOW PATH**

[54] **ENSEMBLE OBTURATEUR A TRAJET D'ECOULEMENT DE FLUIDE SELECTIVEMENT CONTROLABLE**

[72] ISAACSON, S. RAY, US  
[72] HUNTER, MARK, US  
[72] WALKER, PAUL, US  
[72] O'BRYAN, JEFF, US  
[73] BECTON, DICKINSON AND COMPANY, US  
[85] 2020-02-26  
[86] 2018-08-21 (PCT/US2018/047292)  
[87] (WO2019/050673)  
[30] US (15/697,140) 2017-09-06

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[11] **3,073,978**  
[13] C

- [51] **Int.Cl. A61M 25/00 (2006.01) A61M 39/10 (2006.01)**  
[25] EN  
[54] **SMART SMALL-BORE CONNECTOR DEVICE**  
[54] **DISPOSITIF DE CONNECTEUR INTELLIGENT A PETIT ALESAGE**  
[72] ISAACSON, S. RAY, US  
[73] BECTON, DICKINSON AND COMPANY, US  
[85] 2020-02-26  
[86] 2018-08-22 (PCT/US2018/047514)  
[87] (WO2019/050683)  
[30] US (62/554,905) 2017-09-06

[11] **3,074,669**  
[13] C

- [51] **Int.Cl. B21D 24/04 (2006.01)**  
[25] EN  
[54] **COMPACT STOCK GUIDE ASSEMBLY**  
[54] **ENSEMBLE DE GUIDAGE DE RESERVES COMPACT**  
[72] BREEN, SCOTT M., US  
[72] PYPER, JOEL T., US  
[73] STANDARD LIFTERS, INC., US  
[86] (3074669)  
[87] (3074669)  
[22] 2020-03-04  
[30] US (62/813,848) 2019-03-05  
[30] US (16/807,665) 2020-03-03

[11] **3,074,907**  
[13] C

- [51] **Int.Cl. A61B 10/00 (2006.01)**  
[25] EN  
[54] **BIOMATERIAL COLLECTION SYSTEM**  
[54] **SYSTEME DE COLLECTE DE BIOMATERIAUX**  
[72] KRAMER, HEIDI, US  
[72] WAGSCHAL, HERMAN, US  
[72] WAGSCHAL, JOSEPH, US  
[73] WK HOLDINGS, INC., US  
[86] (3074907)  
[87] (3074907)  
[22] 2015-11-11  
[62] 2,985,183  
[30] US (14/704,034) 2015-05-05

[11] **3,076,960**  
[13] C

- [51] **Int.Cl. H04B 17/23 (2015.01) H04B 1/401 (2015.01) H04B 17/318 (2015.01) H04B 1/18 (2006.01)**  
[25] EN  
[54] **ANTENNA DETECTION THROUGH NOISE MEASUREMENT**  
[54] **DETECTION PAR ANTENNE AU MOYEN DE LA MESURE DE BRUIT**  
[72] HAMILTON, GARY WAYNE, II, US  
[72] BRAGG, STEVEN DONALD, US  
[73] NEPTUNE TECHNOLOGY GROUP INC., US  
[86] (3076960)  
[87] (3076960)  
[22] 2020-03-25  
[30] US (62/825,855) 2019-03-29  
[30] US (62/828,105) 2019-04-02  
[30] US (62/835,669) 2019-04-18

[11] **3,077,804**  
[13] C

- [51] **Int.Cl. A61K 38/57 (2006.01) A61K 47/62 (2017.01) A61P 3/08 (2006.01) A61P 3/10 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) A61P 39/00 (2006.01) C07K 7/08 (2006.01) C07K 14/47 (2006.01) C07K 14/81 (2006.01)**  
[25] EN  
[54] **PEPTIDES AND METHODS OF USING SAME**  
[54] **PEPTIDES ET LEURS METHODES D'UTILISATION**  
[72] MOGELSVANG, SOREN, US  
[72] GELBER, COHAVA, US  
[73] SERPIN PHARMA, LLC, US  
[86] (3077804)  
[87] (3077804)  
[22] 2013-01-07  
[62] 2,859,777  
[30] US (61/584,517) 2012-01-09  
[30] US (61/699,571) 2012-09-11

[11] **3,077,923**  
[13] C

- [51] **Int.Cl. G01N 21/25 (2006.01)**  
[25] EN  
[54] **METHODS FOR IN-SCENE COMPENSATION USING WATER VAPOR CONTENT**  
[54] **METHODES DE COMPENSATION EN SCENE AU MOYEN D'UNE TENEUR EN VAPEUR D'EAU**  
[72] ARDOUIN, JEAN-PIERRE, CA  
[72] ROSS, VINCENT, CA  
[73] HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE, CA  
[86] (3077923)  
[87] (3077923)  
[22] 2013-12-11  
[62] 2,836,210

[11] **3,079,889**  
[13] C

- [51] **Int.Cl. H02B 13/025 (2006.01) H01H 71/02 (2006.01)**  
[25] EN  
[54] **SUBSTATION ELECTROMAGNETIC MITIGATION MODULE**  
[54] **MODULE D'ATTENUATION ELECTROMAGNETIQUE DE SOUS-STATION**  
[72] EASTON, ERIC D., US  
[72] BRYANT, KEVIN J., US  
[73] CENTERPOINT ENERGY, INC., US  
[85] 2020-04-22  
[86] 2018-08-29 (PCT/US2018/048428)  
[87] (WO2019/094088)  
[30] US (62/582,373) 2017-11-07

[11] **3,079,977**  
[13] C

- [51] **Int.Cl. B25J 9/00 (2006.01)**  
[25] FR  
[54] **EXOSKELETON STRUCTURE ADAPTED TO THE SHOULDER**  
[54] **STRUCTURE D'EXOSQUELETTE ADAPTE A L'EPAULE**  
[72] ZOSO, NATHANIEL, CA  
[72] GRENIER, JORDANE, FR  
[73] SAFRAN ELECTRONICS & DEFENSE, FR  
[73] B-TEMIA INC., CA  
[85] 2020-04-23  
[86] 2018-10-24 (PCT/FR2018/052642)  
[87] (WO2019/081851)  
[30] FR (1760027) 2017-10-24

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[11] **3,081,828**  
[13] C

[51] **Int.Cl. E21B 34/00 (2006.01) E21B 34/06 (2006.01) E21B 34/10 (2006.01) E21B 34/14 (2006.01)**

[25] EN

[54] **METHOD AND STIMULATION SLEEVE FOR WELL COMPLETION IN A SUBTERRANEAN WELLBORE**

[54] **PROCEDE ET MANCHON DE STIMULATION POUR COMPLETION DE Puits DANS UN Puits DE FORAGE SOUTERRAIN**

[72] KENT, ANTHONY, US

[72] TVERANGER, JAN TORE, NO

[73] SUPERSTAGE AS, NO

[85] 2020-05-05

[86] 2018-11-06 (PCT/NO2018/050264)

[87] (WO2019/088849)

[30] NO (20171752) 2017-11-06

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[11] **3,082,073**  
[13] C

[51] **Int.Cl. A61B 34/30 (2016.01) A61B 90/30 (2016.01) B25J 9/12 (2006.01)**

[25] EN

[54] **ROBOTIC SURGICAL DEVICES, SYSTEMS, AND RELATED METHODS**

[54] **DISPOSITIFS CHIRURGICAUX ROBOTIQUES, SYSTEMES ET METHODES CONNEXES**

[72] FARRITOR, SHANE, US

[72] WORTMAN, TYLER, US

[72] STRABALA, KYLE, US

[72] MCCORMICK, RYAN, US

[72] LEHMAN, AMY, US

[72] OLEJNIKOV, DMITRY, US

[73] BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, US

[86] (3082073)

[87] (3082073)

[22] 2012-07-11

[62] 2,841,459

[30] US (61/506,384) 2011-07-11

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[11] **3,082,909**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6876 (2018.01) C12Q 1/6888 (2018.01) C12N 15/10 (2006.01) C12Q 1/70 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR DETECTING C1ORF43 NUCLEIC ACID**

[54] **COMPOSITIONS ET PROCEDES POUR DETECTER L'ACIDE NUCLEIQUE DE C1ORF43**

[72] MIICK, SIOBHAN M., US

[72] DARBY, PAUL M., US

[72] JACKSON, JO ANN, US

[72] GETMAN, DAMON K., US

[73] GEN-PROBE INCORPORATED, US

[85] 2020-05-15

[86] 2018-11-15 (PCT/US2018/061225)

[87] (WO2019/099629)

[30] US (62/588,130) 2017-11-17

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[11] **3,084,724**  
[13] C

[51] **Int.Cl. C08L 25/06 (2006.01) B32B 27/06 (2006.01) B32B 27/30 (2006.01) B65D 85/72 (2006.01) C08J 5/18 (2006.01) C08L 23/08 (2006.01) C08L 31/04 (2006.01)**

[25] EN

[54] **ACTIVE POLYSTYRENE FILM**

[54] **FILM ACTIF DE POLYSTYRENE**

[72] GALLEGO CASTRO, RAUL, ES

[72] CORDERO CERRADA, LLUCIA, ES

[73] VISCOFAN, S.A., ES

[85] 2020-04-22

[86] 2018-10-24 (PCT/ES2018/070691)

[87] (WO2019/086734)

[30] ES (P201731261) 2017-10-27

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[11] **3,086,611**  
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **A CRYSTALLINE FORM OF VALBENZAZINE DITOSYLATE, PROCESSES FOR PREPARATION THEREOF AND USE THEREOF**

[54] **FORME CRISTALLINE DE DITOSYLATE DE VALBENZAZINE, PROCEDES DE PREPARATION ET UTILISATION**

[72] CHEN, MINHUA, CN

[72] ZHANG, YANFENG, CN

[72] YANG, CHAOHUI, CN

[72] HUANG, CHUNXIANG, CN

[73] CRYSTAL PHARMACEUTICAL (SUZHOU) CO., LTD., CN

[85] 2020-06-22

[86] 2018-12-26 (PCT/CN2018/124039)

[87] (WO2019/129100)

[30] CN (201711436859.7) 2017-12-26

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[11] **3,086,965**  
[13] C

[51] **Int.Cl. B65D 75/58 (2006.01) B65B 9/02 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR PRODUCING A SEALED SINGLE-DOSE BREAK-OPEN PACKAGE**

[54] **APPAREIL ET PROCEDE DE PRODUCTION D'UN EMBALLAGE UNITAIRE FERME HERMETIQUEMENT A OUVERTURE PAR RUPTURE**

[72] GUSTVASSON, ERLAND JESPER, IT

[73] V-SHAPES S.R.L., IT

[85] 2020-06-25

[86] 2018-08-13 (PCT/IT2018/000108)

[87] (WO2019/138434)

[30] IT (102017000149752) 2018-01-09

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[11] **3,087,359**  
[13] C

[51] **Int.Cl. C07D 498/18 (2006.01) A61K 31/553 (2006.01) A61K 31/706 (2006.01) A61P 31/18 (2006.01) C07H 17/00 (2006.01) G01N 33/48 (2006.01)**

[25] EN

[54] **METABOLITES OF BICTEGRAVIR**

[54] **METABOLITES DU BICTEGRAVIR**

[72] JIN, HAOLUN, US

[72] PYUN, HYUNG-JUNG, US

[72] SMITH, BILL J., US

[72] SUBRAMANIAN, RAJU, US

[72] WANG, JIANHONG, US

[73] GILEAD SCIENCES, INC., US

[85] 2020-06-29

[86] 2019-01-18 (PCT/US2019/014311)

[87] (WO2019/144015)

[30] US (62/619,478) 2018-01-19

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[11] **3,087,891**  
[13] C

[51] **Int.Cl. A01N 59/16 (2006.01) A01P 3/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREVENTING DAMPING-OFF BY APPLYING IRON SALT TO PLANT SEED**

[54] **METHODE DE PREVENTION DE LA FONTE PAR L'APPLICATION DE SEL DE FER A DES SEMIS**

[72] VERHAGE, ADRIAAN, NL

[72] BIJL, GERARDUS JOHANNES MARIA, NL

[72] VERHEIJ, FRANS, NL

[73] RIJK ZWAAN ZAADTEELT EN ZAADHANDEL B.V., NL

[85] 2020-07-08

[86] 2019-01-10 (PCT/EP2019/050545)

[87] (WO2019/137998)

[30] NL (2020261) 2018-01-10

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[11] **3,088,925**  
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **UPAR BINDING AGENTS AND METHODS OF USE THEREOF**

[54] **AGENTS SE LIANT A UPAR ET PROCEDES D'UTILISATION ASSOCIES**

[72] CRAIK, CHARLES S., US

[72] DURISETI, KRISHNA SAI, US

[72] GOETZ, DAVID H., US

[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[86] (3088925)

[87] (3088925)

[22] 2011-02-11

[62] 2,789,436

[30] US (61/304,334) 2010-02-12

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[11] **3,088,958**  
[13] C

[51] **Int.Cl. C12Q 1/6895 (2018.01) A01H 6/54 (2018.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR SELECTING SOYBEAN PLANTS RESISTANT TO PHYTOPHTHORA ROOT ROT**

[54] **PROCEDES ET COMPOSITIONS PERMETTANT DE SELECTIONNER DES PLANTES DE SOJA RESISTANT AU POURRIDIE PHYTOPHTHOREEN**

[72] BEHM, JAMES, US

[72] WU, KUNSHENG, US

[72] TAMULONIS, JOHN, US

[72] CONCIBIDO, VERGEL, US

[72] YATES, JENNIFER, US

[73] MONSANTO TECHNOLOGY LLC, US

[86] (3088958)

[87] (3088958)

[22] 2008-04-16

[62] 2,684,271

[30] US (60/925,475) 2007-04-20

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[11] **3,089,257**  
[13] C

[51] **Int.Cl. A61M 5/172 (2006.01) G16H 20/17 (2018.01)**

[25] EN

[54] **PATIENT CARE SYSTEM FOR CRITICAL MEDICATIONS**

[54] **SYSTEME DE SOINS DE PATIENTS POUR MEDICATION CRITIQUE**

[72] DAY, WILLIAM K., US

[73] ICU MEDICAL, INC., US

[86] (3089257)

[87] (3089257)

[22] 2013-07-31

[62] 2,880,156

[30] US (61/677,736) 2012-07-31

[30] US (13/955,121) 2013-07-31

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[11] **3,092,393**  
[13] C

[51] **Int.Cl. G09B 23/30 (2006.01) G09B 9/00 (2006.01)**

[25] EN

[54] **LAPAROSCOPIC SIMULATOR**

[54] **SIMULATEUR DE CHIRURGIE LAPAROSCOPIQUE**

[72] VAN FLUTE, JORDAN LUKE, GB

[72] ROY STREET, ELLIOT, GB

[73] INOVUS LTD, GB

[86] (3092393)

[87] (3092393)

[22] 2020-09-08

[30] GB (GB1912903.0) 2019-09-06

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[11] **3,092,411**  
[13] C

[51] **Int.Cl. G06Q 10/20 (2023.01) B60S 5/00 (2006.01) G07C 5/08 (2006.01) G06Q 40/08 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR USE OF DIAGNOSTIC SCAN TOOL IN AUTOMOTIVE COLLISION REPAIR**

[54] **SYSTEMES ET PROCEDES D'UTILISATION D'UN OUTIL DE BALAYAGE DIAGNOSTIQUE DANS LA REPARATION DE COLLISIONS AUTOMOBILES**

[72] ROZINT, JOHN JOSEPH, US

[73] MITCHELL INTERNATIONAL INC., US

[86] (3092411)

[87] (3092411)

[22] 2017-04-19

[62] 3,019,923

[30] US (62/324,826) 2016-04-19

[30] US (15/487,379) 2017-04-13

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[11] **3,092,699**  
[13] C

[51] **Int.Cl. G06F 8/51 (2018.01) G06F 8/76 (2018.01)**  
[25] EN  
[54] **SOURCE CODE TRANSLATION  
TRADUCTION DE CODE SOURCE**  
[72] BEIT-AHARON, JONATHAN, US  
[73] AB INITIO TECHNOLOGY LLC, US  
[86] (3092699)  
[87] (3092699)  
[22] 2014-12-08  
[62] 2,929,716  
[30] US (61/912,594) 2013-12-06

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[11] **3,093,145**  
[13] C

[51] **Int.Cl. G01C 21/34 (2006.01) G01C 21/36 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR  
DETERMINING AND  
DYNAMICALLY UPDATING A  
ROUTE AND DRIVING STYLE  
FOR PASSENGER COMFORT**  
[54] **PROCEDE ET SYSTEME DE  
DETERMINATION ET DE MISE A  
JOUR DYNAMIQUE D'UN  
ITINERAIRE ET D'UN STYLE DE  
CONDUITE POUR LE CONFORT  
DES PASSAGERS**  
[72] LARNER, DANIEL LYNN, US  
[72] RUSSELL, JARED STEPHEN, US  
[73] WAYMO LLC, US  
[86] (3093145)  
[87] (3093145)  
[22] 2017-08-17  
[62] 3,033,864  
[30] US (62/377,200) 2016-08-19  
[30] US (15/286,153) 2016-10-05

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[11] **3,094,359**  
[13] C

[51] **Int.Cl. A61F 9/007 (2006.01) A61F 9/00 (2006.01) A61F 9/013 (2006.01)**  
[25] EN  
[54] **INTRACANALICULAR  
DISSOLVABLE PUNCTUM PLUG  
INSERTER**  
[54] **DISPOSITIF D'INSERTION DE  
BOUCHON POUR POINT  
LACRYMAL SOLUBLE  
INTRACANALICULAIRE**  
[72] GUBACHY, JAMES MICHAEL, US  
[73] ALPHAMED, INC., US  
[85] 2020-09-17  
[86] 2019-03-21 (PCT/US2019/023323)  
[87] (WO2019/183322)  
[30] US (62/646,538) 2018-03-22

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[11] **3,094,876**  
[13] C

[51] **Int.Cl. H04M 3/42 (2006.01) G10L 15/00 (2013.01)**  
[25] EN  
[54] **METHOD FOR CALL LEARNING  
IN A COMMUNICATION SYSTEM**  
[54] **METHODE D'APPRENTISSAGE  
D'APPELS DANS UN SYSTEME DE  
COMMUNICATION**  
[72] WYSS, FELIX IMMANUEL, US  
[72] TAYLOR, MATTHEW ALAN, US  
[72] VLACK, KEVIN CHARLES, US  
[73] INTERACTIVE INTELLIGENCE,  
INC., US  
[86] (3094876)  
[87] (3094876)  
[22] 2013-08-30  
[62] 2,883,129  
[30] US (61/695,039) 2012-08-30

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[11] **3,096,349**  
[13] C

[51] **Int.Cl. B29B 7/20 (2006.01) C08J 3/20 (2006.01)**  
[25] EN  
[54] **KNEADING ROTOR AND BATCH-  
TYPE KNEADING MACHINE**  
[54] **ROTOR DE MALAXAGE ET  
MACHINE DE MALAXAGE DE  
TYPE DISCONTINU**  
[72] KONISHI, AKIRA, JP  
[72] YAMANE, YASUAKI, JP  
[72] KANEI, NAOFUMI, JP  
[73] KABUSHIKI KAISHA KOBE SEIKO  
SHO (KOBE STEEL, LTD.), JP  
[85] 2020-10-06  
[86] 2019-03-18 (PCT/JP2019/011127)  
[87] (WO2019/198433)  
[30] JP (2018-074448) 2018-04-09

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[11] **3,096,915**  
[13] C

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 15/16 (2006.01)**  
[25] EN  
[54] **MANAGING SHARED  
RESOURCES IN A DISTRIBUTED  
COMPUTING SYSTEM**  
[54] **GESTION DE RESSOURCES  
PARTAGEES DANS UN SYSTEME  
INFORMATIQUE DISTRIBUE**  
[72] MOORE, ZACHARY CHRISTIAN, US  
[72] GILBERT, RYAN MICHAEL, US  
[72] HOSSAIN, AHANUF TAHAMID, US  
[72] SEYMOUR, THOMAS FOSS, US  
[73] OSISOFT, LLC, US  
[85] 2020-10-09  
[86] 2018-07-06 (PCT/IB2018/055020)  
[87] (WO2019/197887)  
[30] US (15/950,031) 2018-04-10

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[11] **3,097,566**  
[13] C

[51] **Int.Cl. B65D 50/06 (2006.01)**  
[25] EN  
[54] **CONTAINER SYSTEM WITH A  
REMOVABLE CAP**  
[54] **SYSTEME DE CONTENANT AVEC  
COUVERCLE AMOVIBLE**  
[72] CREIGHTON, MICHAEL, US  
[72] BORAN, ERSEN, US  
[72] LOWRY, JAMES W., US  
[73] CENTRAL BAG & BURLAP CO., US  
[86] (3097566)  
[87] (3097566)  
[22] 2020-10-30  
[30] US (62/986,898) 2020-03-09  
[30] US (63/076,221) 2020-09-09

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[11] **3,098,956**  
[13] C

[51] **Int.Cl. A61L 9/12 (2006.01)**  
[25] EN  
[54] **INTERACTIVE AROMA  
DISPENSING SYSTEM**  
[54] **SYSTEME INTERACTIF DE  
DISTRIBUTION D'AROMES**  
[72] SIVAGAMINATHAN, RAHUL, US  
[72] XU, YONG HUA, US  
[72] KAISER, JOSEPH, US  
[73] GIVAUDAN SA, CH  
[85] 2020-10-30  
[86] 2019-04-29 (PCT/EP2019/060947)  
[87] (WO2019/211243)  
[30] US (62/667,055) 2018-05-04

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[51] **Int.Cl. H04W 52/02 (2009.01) H04H 60/29 (2009.01) H04W 64/00 (2009.01) H04W 4/021 (2018.01)**

[25] EN

[54] **METHODS, SYSTEMS, AND APPARATUS FOR MULTI-PURPOSE METERING**

[54] **PROCEDES, SYSTEMES ET APPAREIL DE MESURE POLYVALENTE**

[72] JOHNSON, KARIN, US  
[72] MARTENSEN, FRED, US  
[72] MEARS, PAUL, US  
[72] NELSON, DANIEL, US  
[72] OLMSTEAD, WAYNE A., US  
[72] RAMASWAMY, ARUN, US  
[72] TOPCHY, ALEXANDER, US  
[72] CONKLIN, CHARLES, US  
[73] THE NIELSEN COMPANY (US), LLC, US

[86] (3099528)  
[87] (3099528)  
[22] 2007-04-02  
[62] 3,016,376  
[30] US (60/788,397) 2006-03-31

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[11] **3,101,528**  
[13] C

[51] **Int.Cl. B32B 15/20 (2006.01) F16C 33/20 (2006.01)**

[25] EN

[54] **CORROSION RESISTANT BUSHING**

[54] **MANCHON RESISTANT A LA CORROSION**

[72] NEUMARK, RALF, DE  
[72] JAEGER, HANS-JUERGEN, DE  
[72] ANSGAR, HAEGER M., DE  
[73] SAINT-GOBAIN PERFORMANCE PLASTICS PAMPUS GMBH, DE

[86] (3101528)  
[87] (3101528)  
[22] 2015-09-02  
[62] 2,959,469  
[30] US (62/044,816) 2014-09-02

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[11] **3,102,632**  
[13] C

[51] **Int.Cl. B65D 85/50 (2006.01) B65D 81/18 (2006.01) B65D 81/38 (2006.01)**

[25] EN

[54] **INSULATED AND VENTILATED SHELLFISH STORAGE**

[54] **STOCKAGE ISOLE ET VENTILE DE FRUITS DE MER**

[72] GARLAND, JOHN J., CA  
[73] CLEARWATER SEAFOODS LIMITED PARTNERSHIP, CA

[85] 2020-12-04  
[86] 2019-05-09 (PCT/CA2019/050618)  
[87] (WO2019/237180)  
[30] US (62/685,356) 2018-06-15

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[11] **3,102,898**  
[13] C

[51] **Int.Cl. B65D 17/28 (2006.01)**

[25] EN

[54] **METALLIC CAN END**

[54] **COUVERCLE DE BOITE METALLIQUE**

[72] PIECH, GREGOR ANTON, AT  
[73] TOP CAP HOLDING GMBH, AT

[85] 2020-12-07  
[86] 2019-06-17 (PCT/EP2019/065879)  
[87] (WO2019/243254)  
[30] EP (18178571.8) 2018-06-19

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[11] **3,103,575**  
[13] C

[51] **Int.Cl. C01D 5/00 (2006.01) C01D 3/04 (2006.01) C02F 1/44 (2006.01) C02F 1/52 (2006.01) C02F 9/00 (2023.01)**

[25] EN

[54] **METHODS FOR PRODUCING POTASSIUM SULFATE AND SODIUM CHLORIDE FROM WASTEWATER**

[54] **METHODES DE PRODUCTION DE SULFATE DE POTASSIUM ET DE CHLORURE DE SODIUM A PARTIR DES EAUX USEES**

[72] BESSENET, SEBASTIEN, US  
[72] FENG, JINHAI, US  
[72] RIEKE, JAMES F., US  
[72] RITTOF, TIMOTHY J., US  
[73] VEOLIA WATER TECHNOLOGIES, INC., US

[86] (3103575)  
[87] (3103575)  
[22] 2017-11-22  
[62] 2,986,925  
[30] US (62/432,738) 2016-12-12  
[30] CN (201710316634.1) 2017-05-08

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[11] **3,105,644**  
[13] C

[51] **Int.Cl. G01B 21/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**

[25] FR

[54] **MEASUREMENT ARM WITH MULTIFUNCTIONAL END**

[54] **BRAS DE MESURE AVEC EXTREMITE MULTIFONCTION**

[72] DESFORGES, LAURENT, FR  
[72] DUPORTAL, THIBAUT, FR  
[72] ROUX, DENIS, FR  
[72] FAMECHON, JEAN-LUC, FR  
[72] INGLIS, WES, US  
[73] HEXAGON METROLOGY SAS, FR

[85] 2021-01-05  
[86] 2019-07-04 (PCT/EP2019/068028)  
[87] (WO2020/007998)  
[30] FR (1856251) 2018-07-06

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[11] **3,105,716**  
[13] C

[51] **Int.Cl. G01B 21/04 (2006.01) B23Q 3/155 (2006.01) B25J 15/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**

[25] FR

[54] **MEASURING ARM WITH MULTIFUNCTIONAL END**

[54] **BRAS DE MESURE AVEC EXTREMITE MULTIFONCTION**

[72] DESFORGES, LAURENT, FR  
[72] DUPORTAL, THIBAUT, FR  
[72] ROUX, DENIS, FR  
[72] FAMECHON, JEAN-LUC, FR  
[72] INGLIS, WES, US  
[73] HEXAGON METROLOGY SAS, FR

[85] 2021-01-05  
[86] 2019-07-04 (PCT/EP2019/068032)  
[87] (WO2020/008001)  
[30] FR (18 56250) 2018-07-06

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[11] **3,105,823**  
[13] C

[51] **Int.Cl. C07H 11/04 (2006.01) C07C 29/92 (2006.01) C07C 33/042 (2006.01) C07F 9/113 (2006.01) C07H 19/173 (2006.01) C12P 9/00 (2006.01) C12P 19/38 (2006.01) C12P 19/40 (2006.01)**

[25] EN

[54] **ENZYMATIC SYNTHESIS OF 4'-ETHYNYL NUCLEOSIDE ANALOGS**

[54] **SYNTHESE ENZYMATIQUE D'ANALOGUES DE NUCLEOSIDES DE TYPE 4'-ETHYNYLE**

[72] HUFFMAN, MARK A., US

[72] FRYSZKOWSKA, ANNA, US

[72] KOLEV, JOSHUA N., US

[72] DEVINE, PAUL N., US

[72] CAMPOS, KEVIN R., US

[72] TRUPPO, MATTHEW, US

[72] NAWRAT, CHRISTOPHER C., US

[73] MERCK SHARP & DOHME LLC, US

[85] 2021-01-06

[86] 2019-07-02 (PCT/US2019/040316)

[87] (WO2020/014041)

[30] US (62/695,508) 2018-07-09

[30] US (62/822,320) 2019-03-22

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[11] **3,106,012**  
[13] C

[51] **Int.Cl. A47C 21/04 (2006.01) A47C 7/74 (2006.01) F24F 5/00 (2006.01)**

[25] EN

[54] **ACTIVE AIRFLOW TEMPERATURE CONTROLLED BEDDING SYSTEMS**

[54] **SYSTEMES DE LITERIE REGULEE EN TEMPERATURE A DEBIT D'AIR ACTIF**

[72] DEFRANKS, MICHAEL S., US

[72] RUEHLMANN, JAMES GERARD, US

[72] GLADNEY, RICHARD F., US

[72] GARDNER, EMMA ELIZABETH, US

[73] DREAMWELL, LTD., US

[86] (3106012)

[87] (3106012)

[22] 2014-01-10

[62] 2,839,097

[30] US (61/751,140) 2013-01-10

[30] US (61/783,014) 2013-03-14

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[11] **3,106,516**  
[13] C

[51] **Int.Cl. G06F 9/00 (2006.01) G16H 20/17 (2018.01) G16H 40/40 (2018.01) A61M 5/00 (2006.01) G06F 9/445 (2018.01)**

[25] EN

[54] **UPDATING INFUSION PUMP DRUG LIBRARIES AND OPERATIONAL SOFTWARE IN A NETWORKED ENVIRONMENT**

[54] **MISE A JOUR DE BIBLIOTHEQUES DE MEDICAMENTS ET DE LOGICIEL OPERATIONNEL DE POMPES A PERFUSION DANS UN ENVIRONNEMENT EN RESEAU**

[72] XAVIER, BEN, US

[72] KRABBE, DENNIS, US

[72] ENGER, LARRY, US

[72] DEOSTHALE, CHAITANYA, US

[72] ISENSEE, ANTHONY, US

[73] ICU MEDICAL, INC., US

[85] 2021-01-14

[86] 2019-07-12 (PCT/US2019/041705)

[87] (WO2020/018388)

[30] US (62/699,454) 2018-07-17

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[11] **3,106,859**  
[13] C

[51] **Int.Cl. A24F 23/00 (2006.01) A24B 13/02 (2006.01) A24F 23/02 (2006.01)**

[25] EN

[54] **INTERCONNECTED ACTIVE INGREDIENT CONTAINING POUCHES**

[54] **POCHES CONTENANT UN PRINCIPE ACTIF RELIEES ENTRE ELLES**

[72] FRANSEN, NELLY, SE

[72] WENSTER, LARS, SE

[72] SIEGBAHN, NILS, SE

[73] NICONOVUM AB, SE

[85] 2021-01-19

[86] 2019-07-19 (PCT/EP2019/069559)

[87] (WO2020/016432)

[30] DK (PA 2018 70490) 2018-07-19

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[11] **3,107,046**  
[13] C

[51] **Int.Cl. C25B 13/02 (2006.01) C25B 9/75 (2021.01) C25B 13/05 (2021.01) B22F 3/11 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A POROUS TRANSPORT LAYER FOR AN ELECTROCHEMICAL CELL**

[54] **PROCEDE DE FABRICATION D'UNE COUCHE DE TRANSPORT POREUSE POUR UNE CELLULE ELECTROCHIMIQUE**

[72] HOLLER, STEFAN, DE

[73] HOELLER ELECTROLYZER GMBH, DE

[85] 2021-01-20

[86] 2018-07-27 (PCT/EP2018/070458)

[87] (WO2020/020467)

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[11] **3,107,605**  
[13] C

[51] **Int.Cl. G01D 11/00 (2006.01)**

[25] EN

[54] **WIRELESS, BATTERY-POWERED SENSOR**

[54] **CAPTEUR SANS FIL A BATTERIE**

[72] OKOLI, CHUKWUNONSO, US

[72] LUSK, JONATHAN, US

[72] JOHNSON, JOHN RICHARD, US

[73] ABL IP HOLDING LLC, US

[86] (3107605)

[87] (3107605)

[22] 2021-01-29

[30] US (16/940,670) 2020-07-28



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[11] **3,109,854**  
[13] C

[51] **Int.Cl. G01N 1/28 (2006.01) B01D 27/14 (2006.01) B01L 3/00 (2006.01) G01N 1/40 (2006.01)**

[25] EN

[54] **DEPTH FILTRATION DEVICE FOR SEPARATING SPECIMEN PHASES**

[54] **DISPOSITIF DE FILTRATION EN PROFONDEUR POUR LA SEPARATION DE PHASES D'ECHANTILLON**

[72] BOKKA SRINIVASA RAO, KISHORE K., US

[72] IVOSEVIC, MILAN, US

[72] MARCHIARULLO, DANIEL J., US

[73] BECTON, DICKINSON AND COMPANY, US

[86] (3109854)

[87] (3109854)

[22] 2016-08-31

[62] 2,996,863

[30] US (62/212,797) 2015-09-01

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[11] **3,110,010**  
[13] C

[51] **Int.Cl. H02J 9/00 (2006.01) B60R 16/03 (2006.01) H02J 7/00 (2006.01) H02J 15/00 (2006.01) H03F 1/00 (2006.01) H04B 1/00 (2006.01)**

[25] EN

[54] **HYBRID POWER BACKUP STORAGE SYSTEM**

[54] **SYSTEME DE STOCKAGE D'ALIMENTATION DE SECOURS HYBRIDE**

[72] AUBERT, ANDREW CLARK BAIRD, CA

[72] GAGNE, MARC JAMES, CA

[73] 2449049 ONTARIO INC., CA

[85] 2021-02-18

[86] 2019-10-21 (PCT/CA2019/051487)

[87] (WO2020/082170)

[30] US (62/749,252) 2018-10-23

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[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/41 (2006.01) A61K 31/4439 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **PYRAZOLE COMPOUNDS, PHARMACEUTICAL COMPOSITIONS THEREOF AND USE THEREOF**

[54] **COMPOSES DE PYRAZOLE, COMPOSITIONS PHARMACEUTIQUES CORRESPONDANTES ET UTILISATION ASSOCIEES**

[72] HUANG, LIYE, CN

[72] LI, HUA, CN

[72] LI, TAO, CN

[72] LIU, HUABIN, CN

[72] XUE, CHUBIAO, CN

[73] ARTIVILA (SHENZHEN) INNOVATION CENTER, LTD., CN

[85] 2021-02-22

[86] 2019-08-22 (PCT/CN2019/102067)

[87] (WO2020/043008)

[30] CN (201810992017.8) 2018-08-27

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[11] **3,111,018**  
[13] C

[51] **Int.Cl. F42D 1/00 (2006.01)**

[25] EN

[54] **METHOD OF AND APPARATUS FOR ESTABLISHING A BLASTING SYSTEM**

[54] **PROCEDE ET APPAREIL DE MISE EN PLACE D'UN SYSTEME DE SAUTAGE**

[72] MULLER, ELMAR LENNOX, ZA

[72] VAN WYK, RIAAN LINGENFELDER, ZA

[72] MEYER, TIELMAN CHRISTIAAN, ZA

[72] BOTHA, MARIUS CHRISTO, ZA

[73] DETNET SOUTH AFRICA (PTY) LTD, ZA

[85] 2021-02-26

[86] 2019-08-21 (PCT/ZA2019/050048)

[87] (WO2020/047560)

[30] ZA (2018/05693) 2018-08-27

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[11] **3,112,680**  
[13] C

[51] **Int.Cl. A61K 47/42 (2017.01) A61K 31/26 (2006.01) A61K 36/28 (2006.01) A61K 47/22 (2006.01) A61K 47/26 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING A SULFORAPHANE OR A SULFORAPHANE PRECURSOR AND MILK THISTLE EXTRACT OR POWDER**

[54] **COMPOSITIONS COMPRENANT UN SULFORAPHANE OU UN PRECURSEUR DE SULFORAPHANE ET UN EXTRAIT OU UNE POUDRE DE CHARDON MARIE**

[72] CORNBLATT, BRIAN, US

[72] CORNBLATT, GRACE, US

[72] BZHELYANSKY, ANTON, US

[72] HENDERSON, ROBERT W., US

[73] NUTRAMAX LABORATORIES, INC., US

[86] (3112680)

[87] (3112680)

[22] 2013-07-03

[62] 2,877,356

[30] US (61/668,396) 2012-07-05

[30] US (61/668,386) 2012-07-05

[30] US (61/668,374) 2012-07-05

[30] US (61/668,364) 2012-07-05

[30] US (61/668,342) 2012-07-05

[30] US (61/668,328) 2012-07-05

[30] US (61/794,417) 2013-03-15

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[11] **3,112,923**  
[13] C

[51] **Int.Cl. H04W 74/08 (2009.01) H04W 28/04 (2009.01)**

[25] EN

[54] **RANDOM ACCESS METHOD AND TERMINAL**

[54] **PROCEDE D'ACCES ALEATOIRE, ET TERMINAL**

[72] WU, YUMIN, CN

[73] VIVO MOBILE COMMUNICATION CO., LTD., CN

[85] 2021-03-16

[86] 2019-07-29 (PCT/CN2019/098175)

[87] (WO2020/057262)

[30] CN (201811089695.X) 2018-09-18

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[11] **3,113,439**  
[13] C

[51] **Int.Cl. B66C 3/16 (2006.01) B23K 37/053 (2006.01) B66C 1/28 (2006.01) B66C 1/62 (2006.01) E02F 3/96 (2006.01) F16L 1/09 (2006.01) F16L 1/10 (2006.01)**

[25] EN

[54] **PIPE PROCESSING TOOL**

[54] **OUTIL DE TRAITEMENT DE TUYAU**

[72] LAVALLEY, JASON, US

[72] LARSON, DANIEL, US

[72] KILDE, JESSE, US

[72] BURGESS, MICHAEL, US

[72] KILPO, LAWRENCE D., US

[73] LAVALLEY INDUSTRIES, LLC, US

[86] (3113439)

[87] (3113439)

[22] 2012-02-17

[62] 3,024,816

[30] US (61/443,737) 2011-02-17

[30] US (61/599,164) 2012-02-15

[30] US (13/398,995) 2012-02-17

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[11] **3,114,006**  
[13] C

[51] **Int.Cl. A61K 31/702 (2006.01) A23L 29/30 (2016.01) A23L 33/125 (2016.01) A61K 35/20 (2006.01) A61P 11/00 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01)**

[25] EN

[54] **HUMAN MILK OLIGOSACCHARIDES FOR MODULATING INFLAMMATION**

[54] **OLIGOSACCHARIDES DE LAIT HUMAIN POUR MODULER L' INFLAMMATION**

[72] BUCK, RACHAEL, US

[72] DUSKA-MCEWEN, GERALYN O., US

[72] SCHALLER, JOSEPH P., US

[73] ABBOTT LABORATORIES, US

[86] (3114006)

[87] (3114006)

[22] 2011-12-22

[62] 3,038,073

[30] US (61/428,860) 2010-12-31

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[11] **3,114,715**  
[13] C

[51] **Int.Cl. G21B 1/00 (2006.01)**

[25] EN

[54] **ROTATING HIGH-DENSITY FUSION REACTOR FOR ANEUTRONIC AND NEUTRONIC FUSION**

[54] **REACTEUR ROTATIF DE FUSION A HAUTE DENSITE POUR FUSION ANEUTRONIQUE ET NEUTRONIQUE**

[72] WONG, ALFRED Y., US

[73] WONG, ALFRED Y., US

[86] (3114715)

[87] (3114715)

[22] 2014-03-11

[62] 2,905,332

[30] US (61/776,592) 2013-03-11

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[11] **3,114,986**  
[13] C

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01)**

[25] EN

[54] **CATHETER ASSEMBLY WITH SEAL MEMBER**

[54] **ENSEMBLE CATHETER AYANT UN ELEMENT D'ETANCHEITE**

[72] GORAL, DAVID J., US

[72] ROEHL, CHRISTOPHER D., US

[72] MUSKATELLO, JAMES M., US

[72] MUNAVALLI, MAHESH, US

[72] MICHAUD, JOCELYN C., US

[72] WUSCHNER, JOHN F., US

[73] SMITHS MEDICAL ASD, INC., US

[86] (3114986)

[87] (3114986)

[22] 2011-04-25

[62] 2,993,693

[30] US (12/823,656) 2010-06-25

[30] US (13/023,213) 2011-02-08

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[11] **3,115,218**  
[13] C

[51] **Int.Cl. E21B 33/04 (2006.01) E21B 33/03 (2006.01)**

[25] EN

[54] **WELLHEAD FEEDTHROUGH ASSEMBLY FOR ELECTRICAL CABLING**

[54] **APPAREIL D'ALIMENTATION DE TETE DE Puits POUR CABLE ELECTRIQUE**

[72] WATT, ALAN FRASER, CA

[72] WILSON, CHRISTOPHER ALEXANDER, CA

[72] MURTY, JONATHAN PETER, CA

[73] SUNCOR ENERGY INC., CA

[73] RMSPUMPTOOLS LIMITED, GB

[86] (3115218)

[87] (3115218)

[22] 2019-01-29

[62] 3,031,849

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[11] **3,116,139**  
[13] C

[51] **Int.Cl. F01D 25/06 (2006.01) F01D 5/16 (2006.01) F04D 29/34 (2006.01) F04D 29/66 (2006.01) F16F 15/14 (2006.01) F16F 15/16 (2006.01)**

[25] EN

[54] **VIBRATION DAMPING DEVICE FOR BLADE OF ROTATING MACHINE AND ROTATING MACHINE INCLUDING THE SAME**

[54] **DISPOSITIF D'ATTENUATION DES VIBRATIONS POUR UNE PALE D'UNE MACHINE TOURNANTE, ET MACHINE TOURNANTE COMPRENANT LE DISPOSITIF**

[72] WATANABE, TOSHIO, JP

[72] AKIMOTO, KENTARO, JP

[73] MITSUBISHI HEAVY INDUSTRIES AERO ENGINES, LTD., JP

[85] 2021-04-12

[86] 2019-07-25 (PCT/JP2019/029259)

[87] (WO2020/090169)

[30] JP (2018-206239) 2018-11-01

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[11] **3,118,150**  
[13] C

[51] **Int.Cl. F16K 27/04 (2006.01) C10B 25/10 (2006.01) F16K 3/02 (2006.01) F16K 3/312 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR VALVE SEALING**

[54] **SYSTEMES ET PROCEDES POUR FERMER DE MANIERE ETANCHE UN CLAPET**

[72] VOORHEES, PAUL BRENT, US

[73] DELTAVALVE, LLC, US

[85] 2021-04-28

[86] 2019-11-08 (PCT/US2019/060569)

[87] (WO2020/102031)

[30] US (16/189,498) 2018-11-13

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[11] **3,118,931**  
[13] C

[51] **Int.Cl. A61C 13/38 (2006.01) A61B 50/30 (2016.01) A61C 5/77 (2017.01) A61C 8/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR PREPARING DENTAL PROSTHETICS**

[54] **APPAREIL ET PROCEDE DE PREPARATION DE PROTHESES DENTAIRES**

[72] WEISBECK, RICHARD WAYNE, CA

[73] SCHELL DENTAL CERAMICS INC., CA

[85] 2021-05-07

[86] 2018-11-19 (PCT/CA2018/051470)

[87] (WO2019/095077)

[30] US (62/587,939) 2017-11-17

[30] US (62/633,525) 2018-02-21

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[11] **3,119,034**  
[13] C

[51] **Int.Cl. C08G 18/73 (2006.01) C08G 18/18 (2006.01) C08G 18/22 (2006.01) C08G 18/28 (2006.01) C08L 75/04 (2006.01)**

[25] EN

[54] **CURABLE FILM-FORMING COMPOSITIONS DEMONSTRATING DECREASED CURE TIME WITH STABLE POT LIFE**

[54] **COMPOSITIONS FILMOGENES DURCISSABLES PRESENTANT UN TEMPS DE DURCISSEMENT REDUIT AINSI QU'UNE DUREE DE VIE EN POT STABLE**

[72] LUKUS, PETER ALAN, US

[72] PAWLIK, MICHAEL J., US

[72] BEZER, SILVIA, US

[72] ZAWACKY, STEVEN R., US

[72] SCHILLINGER, DIANE JEAN, US

[72] ESAREY, SAMUEL LOGAN, US

[73] PPG INDUSTRIES OHIO, INC., US

[85] 2021-05-06

[86] 2018-11-08 (PCT/US2018/059759)

[87] (WO2020/096598)

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[11] **3,119,093**  
[13] C

[51] **Int.Cl. B65D 3/00 (2006.01) B65D 3/06 (2006.01)**

[25] EN

[54] **PAPER LID AND METHOD FOR PRODUCING PAPER LID**

[54] **COUVERCLE EN PAPIER ET SON PROCEDE DE PRODUCTION**

[72] YAMADA, KIKUO, JP

[73] SELF-SETTLED TRUST OF YAMADA KIKUO, YAMADA KIKUO, SETTLOR AND TRUSTEE, JP

[85] 2021-05-06

[86] 2019-02-01 (PCT/JP2019/003670)

[87] (WO2020/100316)

[30] US (62/768,142) 2018-11-16

[30] US (62/770,852) 2018-11-23

[30] US (62/772,649) 2018-11-29

[30] US (62/774,355) 2018-12-03

[30] JP (2018-226847) 2018-12-03

[30] US (62/775,935) 2018-12-06

[30] US (62/779,530) 2018-12-14

[30] US (62/781,026) 2018-12-18

[30] US (62/784,863) 2018-12-26

[30] US (62/785,763) 2018-12-28

[30] US (62/786,567) 2018-12-31

[30] US (62/790,050) 2019-01-09

[30] JP (2019-003320) 2019-01-11

[30] US (62/793,943) 2019-01-18

[30] US (62/796,617) 2019-01-25

[30] US (62/797,397) 2019-01-28

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[11] **3,119,353**  
[13] C

[51] **Int.Cl. E05B 17/04 (2006.01) E05B 19/00 (2006.01) E05B 27/00 (2006.01)**

[25] EN

[54] **A CYLINDER LOCK UNIT AND AN ASSOCIATED KEY**

[54] **UNITE DE SERRURE A BARILLET ET CLE ASSOCIEE**

[72] WIDEN, BO, SE

[73] WINLOC AG, CH

[85] 2021-05-10

[86] 2018-12-07 (PCT/EP2018/084021)

[87] (WO2020/114611)

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[11] **3,119,547**  
[13] C

[51] **Int.Cl. B01D 53/26 (2006.01) B01D 53/02 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUSES FOR HARVESTING WATER FROM AIR**  
[54] **PROCEDES ET APPAREILS PERMETTANT DE COLLECTER L'EAU A PARTIR DE L'AIR**  
[72] BOUDREAULT, RICHARD, CA  
[73] AWN NANOTECH INC., CA  
[85] 2021-05-11  
[86] 2018-11-13 (PCT/CA2018/051432)  
[87] (WO2019/090437)  
[30] US (62/585,348) 2017-11-13

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[11] **3,120,605**  
[13] C

[51] **Int.Cl. E05B 15/00 (2006.01) E05B 1/00 (2006.01)**  
[25] EN  
[54] **LOCKING DOOR HANDLE FOR HANDS-FREE OPERATION OF A DOOR AND LATCH THEREFOR**  
[54] **POIGNEE DE PORTE VERROUILLABLE POUR UNE UTILISATION MAINS LIBRES D'UNE PORTE ET D'UN LOQUET CONNEXES**  
[72] BUSS, JONATHAN EDWARD, CA  
[73] BUSS INNOVATIONS LTD., CA  
[86] (3120605)  
[87] (3120605)  
[22] 2021-06-02  
[30] US (63/053,848) 2020-07-20

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[11] **3,121,776**  
[13] C

[51] **Int.Cl. H05B 45/20 (2020.01) F21K 9/23 (2016.01) F21K 9/65 (2016.01) H05B 45/40 (2020.01) H05B 47/16 (2020.01) H05B 47/17 (2020.01)**  
[25] EN  
[54] **LIGHT EMITTING DIODE (LED) LIGHTING DEVICE OR LAMP WITH CONFIGURABLE LIGHT QUALITIES**  
[54] **LAMPE OU DISPOSITIF D'ECLAIRAGE A DIODE ELECTROLUMINESCENTE AYANT DES QUALITES D'ECLAIRAGE CONFIGURABLES**  
[72] HALLIWELL, BRIAN, US  
[73] FEIT ELECTRIC COMPANY, INC., US  
[86] (3121776)  
[87] (3121776)  
[22] 2018-10-22  
[62] 3,021,693  
[30] US (16/001,260) 2018-06-06

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[11] **3,126,296**  
[13] C

[51] **Int.Cl. F25D 21/06 (2006.01) F25D 29/00 (2006.01)**  
[25] EN  
[54] **REFRIGERATOR AND CONTROL METHOD, DEVICE AND SYSTEM THEREFOR**  
[54] **REFRIGERATEUR AINSI QUE PROCEDE, DISPOSITIF ET SYSTEME DE COMMANDE ASSOCIES**  
[72] FANG, RUIMING, CN  
[72] LI, YU, CN  
[73] HEFEI MIDEA REFRIGERATOR CO., LTD., CN  
[73] HEFEI HUALING CO., LTD., CN  
[73] MIDEA GROUP CO., LTD., CN  
[85] 2021-07-09  
[86] 2019-01-09 (PCT/CN2019/070940)  
[87] (WO2020/142915)

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[11] **3,126,536**  
[13] C

[51] **Int.Cl. C12N 9/78 (2006.01) A61K 35/17 (2015.01) A61K 47/50 (2017.01) A61K 47/54 (2017.01) A61K 47/56 (2017.01) A61K 47/60 (2017.01) A61K 35/12 (2015.01) A61K 35/14 (2015.01) A61K 38/47 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01) C12N 7/01 (2006.01) C12N 9/26 (2006.01) C12N 9/96 (2006.01) C12N 15/55 (2006.01) C12N 15/86 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS OF ADENOSINE DEAMINASE-2 (ADA2), VARIANTS THEREOF AND METHODS OF USING SAME**  
[54] **COMPOSITIONS D'ADENOSINE DEAMINASE-2, VARIANTS ET METHODES D'UTILISATION**  
[72] THANOS, CHRISTOPHER D., US  
[72] WANG, LIN, US  
[72] SHEPARD, H. MICHAEL, US  
[73] HALOZYME, INC., US  
[86] (3126536)  
[87] (3126536)  
[22] 2015-10-14  
[62] 2,964,317  
[30] US (62/063,936) 2014-10-14

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[11] **3,127,853**  
[13] C

[51] **Int.Cl. H02K 5/20 (2006.01) H02K 1/06 (2006.01) H02K 5/15 (2006.01) H02K 9/19 (2006.01)**  
[25] EN  
[54] **UNENCLOSED ELECTRIC TRACTION MACHINE**  
[54] **MACHINE DE TRACTION ELECTRIQUE NON FERMEE**  
[72] WILD, STEFAN, AT  
[72] SAMSTAG, PHILIPP, AT  
[73] TRAKTIONSSYSTEME AUSTRIA GMBH, AT  
[85] 2021-07-26  
[86] 2020-06-30 (PCT/EP2020/068354)  
[87] (WO2021/058152)  
[30] EP (19200030.5) 2019-09-27

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[11] **3,129,807**  
[13] C

[51] **Int.Cl. G06F 16/27 (2019.01) G16H 10/60 (2018.01) G07F 17/32 (2006.01)**

[25] EN

[54] **CUSTOMIZED VIEW OF RESTRICTED INFORMATION RECORDED INTO A BLOCKCHAIN**

[54] **VUE PERSONNALISEE D'INFORMATIONS RESTREINTES ENREGISTREES DANS UNE CHAINE DE BLOCS**

[72] SIMONS, JORDAN, US

[73] AMERICORP INVESTMENTS LLC, US

[86] (3129807)

[87] (3129807)

[22] 2019-03-06

[62] 3,092,940

[30] US (62/639,393) 2018-03-06

[30] US (62/701,947) 2018-07-23

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[11] **3,130,175**  
[13] C

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 27/12 (2006.01) B65D 3/04 (2006.01) B65D 30/02 (2006.01) B65D 65/40 (2006.01) B65D 75/26 (2006.01) G01M 3/32 (2006.01)**

[25] EN

[54] **ABRASION RESISTANT FILM FOR BIOCONTAINERS**

[54] **FILM RESISTANT A L'ABRASION POUR RECEPTACLES A DECHETS BIOLOGIQUES**

[72] DECOSTE, DAVID, US

[72] CIANCIOLO, JOSEPH, US

[72] FURBUSH, MICHAEL, US

[72] SARAGOSA, JOHN, US

[73] EMD MILLIPORE CORPORATION, US

[86] (3130175)

[87] (3130175)

[22] 2016-03-22

[62] 2,973,473

[30] US (62/136,691) 2015-03-23

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[11] **3,130,420**  
[13] C

[51] **Int.Cl. A42B 3/06 (2006.01) A42B 3/32 (2006.01)**

[25] EN

[54] **HELMET**

[54] **CASQUE**

[72] POMERING, AMY, SE

[72] LANNER, DANIEL, SE

[73] MIPS AB, SE

[86] (3130420)

[87] (3130420)

[22] 2017-12-12

[62] 3,046,699

[30] GB (1621272.2) 2016-12-14

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[11] **3,130,865**  
[13] C

[51] **Int.Cl. G06K 19/06 (2006.01) G06T 7/90 (2017.01)**

[25] EN

[54] **OPTIMIZING DETECTION OF IMAGES IN RELATION TO TARGETS BASED ON COLORSPACE TRANSFORMATION TECHNIQUES**

[54] **OPTIMISATION DE LA DETECTION D'IMAGES PAR RAPPORT A DES CIBLES SUR LA BASE DE TECHNIQUES DE TRANSFORMATION DE L'ESPACE CHROMATIQUE**

[72] WALTERS, AUSTIN GRANT, US

[72] GOODSITT, JEREMY EDWARD, US

[72] ABDI TAGHI ABAD, FARDIN, US

[73] CAPITAL ONE SERVICES, LLC, US

[85] 2021-09-16

[86] 2020-03-13 (PCT/US2020/022811)

[87] (WO2020/190789)

[30] US (16/357,231) 2019-03-18

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[11] **3,131,713**  
[13] C

[51] **Int.Cl. H01M 50/291 (2021.01) H01M 10/6551 (2014.01) H01M 50/207 (2021.01) H01M 50/258 (2021.01) H01M 50/271 (2021.01)**

[25] EN

[54] **CAPACITANCE REDUCING BATTERY SUBMODULE WITH THERMAL RUNAWAY PROPAGATION PREVENTION AND CONTAINMENT FEATURES**

[54] **SOUS-MODULE DE BATTERIE DE REDUCTION DE CAPACITE AVEC CARACTERISTIQUES DE PREVENTION ET DE CONFINEMENT DE PROPAGATION D'EMBALLLEMENT THERMIQUE**

[72] MELACK, JOHN, US

[72] MUNIZ, THOMAS, US

[72] BREY, COLIN, US

[73] WISK AERO LLC, US

[86] (3131713)

[87] (3131713)

[22] 2019-06-13

[62] 3,104,826

[30] US (62/688,744) 2018-06-22

[30] US (16/438,963) 2019-06-12

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[11] **3,131,971**  
[13] C

[51] **Int.Cl. C10G 11/18 (2006.01) B01D 21/26 (2006.01) B01J 8/24 (2006.01) B04C 9/00 (2006.01)**

[25] EN

[54] **HIGHER CONTAINMENT VSS WITH MULTI ZONE STRIPPING**

[54] **VSS DE CONFINEMENT SUPERIEUR A EPURATION MULTIZONE**

[72] LOMAS, DAVID, US

[73] MARATHON PETROLEUM COMPANY LP, US

[86] (3131971)

[87] (3131971)

[22] 2017-09-22

[62] 2,980,069

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[11] **3,132,119**  
[13] C

[51] **Int.Cl. H04J 13/14 (2011.01) H04H 20/33 (2009.01) H04L 27/34 (2006.01)**  
[25] EN  
[54] **SYSTEM DISCOVERY AND SIGNALING**  
[54] **DECOUVERTE ET SIGNALISATION DE SYSTEMES**  
[72] SIMON, MICHAEL J., US  
[72] SHELBY, KEVIN A., US  
[72] EARNSHAW, MARK, US  
[72] KANNAPPA, SANDEEP MAVUDURU, US  
[73] ONE MEDIA, LLC, US  
[86] (3132119)  
[87] (3132119)  
[22] 2016-03-09  
[62] 2,976,144  
[30] US (62/130,365) 2015-03-09

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[11] **3,133,249**  
[13] C

[51] **Int.Cl. G01N 33/543 (2006.01)**  
[25] EN  
[54] **SIGNATURES AND DETERMINANTS FOR DIAGNOSING INFECTIONS AND METHODS OF USE THEREOF**  
[54] **SIGNATURES ET DETERMINANTS POUR DIAGNOSTIQUER DES INFECTIONS ET PROCEDES D'UTILISATION DE CEUX-CI**  
[72] OVED, KFIR, IL  
[72] EDEN, ERAN, IL  
[72] IFERGAN, ILAN, IL  
[73] MEMED DIAGNOSTICS LTD., IL  
[86] (3133249)  
[87] (3133249)  
[22] 2013-02-08  
[62] 2,863,819  
[30] US (61/596,950) 2012-02-09  
[30] US (61/652,631) 2012-05-29

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[11] **3,133,497**  
[13] C

[51] **Int.Cl. A47K 5/12 (2006.01) A47K 5/16 (2006.01) B05C 5/00 (2006.01) B65D 47/34 (2006.01)**  
[25] EN  
[54] **FOAM PRODUCING APPARATUS AND METHOD**  
[54] **PROCEDE ET APPAREIL DE PRODUCTION DE MOUSSE**  
[72] BABIKIAN, DIKRAN, US  
[72] BEM, BRANKO, US  
[72] DAVILA, EPITACIO, US  
[73] BOBRICK WASHROOM EQUIPMENT, INC., US  
[86] (3133497)  
[87] (3133497)  
[22] 2012-07-31  
[62] 3,055,032  
[30] US (61/513,893) 2011-08-01  
[30] US (61/526,625) 2011-08-23

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[11] **3,134,672**  
[13] C

[51] **Int.Cl. B01D 29/00 (2006.01) B01D 37/00 (2006.01) B01D 37/04 (2006.01)**  
[25] EN  
[54] **NEGATIVE PRESSURE FILTRATION APPARATUS, METHOD, AND SYSTEM**  
[54] **APPAREIL, PROCEDE ET SYSTEME DE FILTRATION A PRESSION NEGATIVE**  
[72] WILLIAMS, GREGG, US  
[72] GELSONE, EDWARD, US  
[73] WILLIAMS, GREGG, US  
[73] GELSONE, EDWARD, US  
[85] 2021-09-22  
[86] 2020-03-27 (PCT/US2020/025198)  
[87] (WO2020/205509)  
[30] US (62/828,902) 2019-04-03

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[11] **3,136,968**  
[13] C

[51] **Int.Cl. G06F 16/21 (2019.01) G06Q 20/40 (2012.01) G06F 16/23 (2019.01) G06Q 30/04 (2012.01) G06Q 20/00 (2012.01)**  
[25] EN  
[54] **DATA MANAGEMENT DEVICE, COMMUNICATION SYSTEM AND METHODS FOR TAGGING DATA IN A DATA TABLE AND TRIGGERING AUTOMATED ACTIONS**  
[54] **DISPOSITIF DE GESTION DE DONNEES, SYSTEME DE COMMUNICATION ET PROCEDES POUR MARQUER DES DONNEES DANS UNE TABLE DE DONNEES ET DECLANCHER DES ACTIONS AUTOMATIQUES**  
[72] TSERETOPOULOS, DEAN C.N., CA  
[72] MCCARTER, ROBERT ALEXANDER, CA  
[72] WALIA, SARABJIT SINGH, CA  
[72] LALKA, VIPUL KISHORE, CA  
[72] MORETTI, NADIA, CA  
[72] DICKIE, PAIGE ELYSE, CA  
[72] KURUVILLA, DENNY DEVASIA, CA  
[72] DUNJIC, MILOS, CA  
[72] D'AGOSTINO, DINO PAUL, CA  
[72] LEE, JOHN JONG-SUK, CA  
[72] JETHWA, RAKESH THOMAS, CA  
[72] JAGGA, ARUN VICTOR, CA  
[73] THE TORONTO-DOMINION BANK, CA  
[86] (3136968)  
[87] (3136968)  
[22] 2017-10-04  
[62] 2,981,385

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[11] **3,137,146**  
[13] C

[51] **Int.Cl. A44C 13/00 (2006.01) A44C 5/20 (2006.01) A44C 11/00 (2006.01) A44C 15/00 (2006.01)**  
[25] EN  
[54] **JEWELRY SYSTEM**  
[54] **SYSTEME DE JOAILLERIE**  
[72] NAM, GINA WOO, US  
[73] NAM, GINA WOO, US  
[85] 2021-10-15  
[86] 2020-04-24 (PCT/US2020/029675)  
[87] (WO2020/219782)  
[30] US (16/395,310) 2019-04-26

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[11] **3,137,286**  
[13] C

[51] **Int.Cl. B41J 3/00 (2006.01) A47B 96/20 (2006.01) B32B 27/10 (2006.01) B32B 29/06 (2006.01) B32B 37/10 (2006.01) B32B 38/14 (2006.01) B41J 2/01 (2006.01) B41M 5/50 (2006.01) B44C 5/04 (2006.01) E04F 15/10 (2006.01)**

[25] EN  
[54] **METHOD FOR MANUFACTURING PANELS HAVING A DECORATIVE SURFACE**

[54] **PROCEDE DE FABRICATION DE PANNEAUX AYANT UNE SURFACE DECORATIVE**

[72] CLEMENT, BENJAMIN, BE  
[72] DE BOE, LUC, BE  
[73] FLOORING INDUSTRIES LIMITED, SARL, LU  
[86] (3137286)  
[87] (3137286)  
[22] 2013-08-01  
[62] 3,073,167  
[30] EP (12179400.2) 2012-08-06  
[30] US (61/751,364) 2013-01-11

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[11] **3,138,290**  
[13] C

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

[25] EN  
[54] **APPARATUS AND METHODS FOR A GAS LIFT VALVE**

[54] **APPAREIL ET PROCEDES POUR UNE VANNE D'ASCENSION AU GAZ**

[72] RODGER, JOEL, US  
[73] RCE CORPORATION, US  
[85] 2021-10-27  
[86] 2020-04-30 (PCT/US2020/030621)  
[87] (WO2020/223437)  
[30] US (62/840,662) 2019-04-30

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[11] **3,138,639**  
[13] C

[51] **Int.Cl. G06T 19/00 (2011.01) G06T 15/00 (2011.01)**

[25] EN  
[54] **SYSTEMS FOR A GENERATING AN INTERACTIVE 3D ENVIRONMENT USING VIRTUAL DEPTH**

[54] **SYSTEMES POUR GENERER UN ENVIRONNEMENT 3D INTERACTIF AU MOYEN DE LA PROFONDEUR VIRTUELLE**

[72] ESKANDER, TAMER, US  
[72] STEELE, ISAAC, US  
[73] VIACOM INTERNATIONAL INC., US  
[86] (3138639)  
[87] (3138639)  
[22] 2017-08-02  
[62] 3,033,059  
[30] US (15/233,823) 2016-08-10

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[11] **3,139,255**  
[13] C

[51] **Int.Cl. B65G 65/06 (2006.01) B60P 1/00 (2006.01) B65G 67/24 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR PROCESSING OBJECTS PROVIDED IN VEHICLES**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'OBJETS DISPOSES DANS DES VEHICULES**

[72] WAGNER, THOMAS, US  
[72] AHEARN, KEVIN, US  
[72] COHEN, BENJAMIN, US  
[72] DAWSON-HAGGERTY, MICHAEL, US  
[72] GEYER, CHRISTOPHER, US  
[72] KOLETSCSKA, THOMAS, US  
[72] MARONEY, KYLE, US  
[72] MASON, MATTHEW T., US  
[72] PRICE, GENE TEMPLE, US  
[72] ROMANO, JOSEPH, US  
[72] SMITH, DANIEL, US  
[72] SRINIVASA, SIDDHARTHA, US  
[72] VELAGAPUDI, PRASANNA, US  
[72] ALLEN, THOMAS, US  
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US  
[86] (3139255)  
[87] (3139255)  
[22] 2017-12-08  
[62] 3,046,214  
[30] US (62/432,021) 2016-12-09

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[11] **3,139,267**  
[13] C

[51] **Int.Cl. B65G 65/06 (2006.01) B65G 67/24 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR PROCESSING OBJECTS PROVIDED IN VEHICLES**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'OBJETS DISPOSES DANS DES VEHICULES**

[72] AHEARN, KEVIN, US  
[72] ALLEN, THOMAS, US  
[72] COHEN, BENJAMIN, US  
[72] DAWSON-HAGGERTY, MICHAEL, US  
[72] GEYER, CHRISTOPHER, US  
[72] KOLETSCSKA, THOMAS, US  
[72] MARONEY, KYLE, US  
[72] MASON, MATTHEW T., US  
[72] PRICE, GENE TEMPLE, US  
[72] ROMANO, JOSEPH, US  
[72] SMITH, DANIEL, US  
[72] SRINIVASA, SIDDHARTHA, US  
[72] VELAGAPUDI, PRASANNA, US  
[72] WAGNER, THOMAS, US  
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US  
[86] (3139267)  
[87] (3139267)  
[22] 2017-12-08  
[62] 3,046,214  
[30] US (62/432,021) 2016-12-09

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[11] **3,139,272**  
[13] C

[51] **Int.Cl. B65G 67/24 (2006.01) B65G 65/06 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PROCESSING OBJECTS PROVIDED IN VEHICLES**  
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'OBJETS DISPOSES DANS DES VEHICULES**  
[72] WAGNER, THOMAS, US  
[72] AHEARN, KEVIN, US  
[72] COHEN, BENJAMIN, US  
[72] DAWSON-HAGGERTY, MICHAEL, US  
[72] GEYER, CHRISTOPHER, US  
[72] KOLETSCSKA, THOMAS, US  
[72] MARONEY, KYLE, US  
[72] MASON, MATTHEW T., US  
[72] PRICE, GENE TEMPLE, US  
[72] ROMANO, JOSEPH, US  
[72] SMITH, DANIEL, US  
[72] SRINIVASA, SIDDHARTHA, US  
[72] VELAGAPUDI, PRASANNA, US  
[72] ALLEN, THOMAS, US  
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US  
[86] (3139272)  
[87] (3139272)  
[22] 2017-12-08  
[62] 3,046,214  
[30] US (62/432,021) 2016-12-09

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[11] **3,139,456**  
[13] C

[51] **Int.Cl. C10G 55/04 (2006.01) C10G 69/06 (2006.01)**  
[25] EN  
[54] **PARTIAL UPGRADING OF BITUMEN WITH THERMAL TREATMENT AND SOLVENT DEASPHALTING**  
[54] **VALORISATION PARTIELLE DU BITUME AVEC TRAITEMENT THERMIQUE ET DESASPHALTAGE AU SOLVANT**  
[72] HUQ, IFTIKHAR, CA  
[72] DE KLERK, ARNO, CA  
[72] REDDY, PRABHAKAR, CA  
[73] SUNCOR ENERGY INC., CA  
[86] (3139456)  
[87] (3139456)  
[22] 2018-04-06  
[62] 3,000,430  
[30] CA (2963436) 2017-04-06

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[11] **3,139,779**  
[13] C

[51] **Int.Cl. B67D 7/02 (2010.01) B67D 7/08 (2010.01) A47F 10/00 (2006.01) B65B 1/04 (2006.01) B65B 3/04 (2006.01) B65B 5/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS, METHODS AND DEVICES FOR DISTRIBUTING VARIOUS PRODUCTS**  
[54] **SYSTEMES, PROCEDES ET DISPOSITIFS POUR DISTRIBUER DIVERS PRODUITS**  
[72] BESSETTE, ROBERT, CA  
[72] BROUILLARD, JACINTHE, CA  
[72] DESCHAMBAULT, JEAN-SEBASTIEN, CA  
[73] FABRICATION LLENAR INC., CA  
[85] 2021-11-09  
[86] 2020-05-08 (PCT/CA2020/050629)  
[87] (WO2020/223822)  
[30] US (62/845,461) 2019-05-09

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[11] **3,140,993**  
[13] C

[51] **Int.Cl. A43B 7/06 (2006.01)**  
[25] EN  
[54] **FOOTWEAR WITH FORCED AIR VENTING**  
[54] **CHAUSSURE AVEC EVENT A AIR FORCE**  
[72] AUDET, JEAN-PIERRE, CA  
[73] CODET INC., CA  
[86] (3140993)  
[87] (3140993)  
[22] 2017-01-20  
[62] 2,955,523  
[30] US (62/281,342) 2016-01-21  
[30] US (15/411,590) 2017-01-20

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[11] **3,142,297**  
[13] C

[51] **Int.Cl. C22C 9/04 (2006.01) C22F 1/08 (2006.01) C22F 1/00 (2006.01)**  
[25] EN  
[54] **FREE-CUTTING COPPER ALLOY CASTING, AND METHOD FOR PRODUCING FREE-CUTTING COPPER ALLOY CASTING**  
[54] **PIECE COULEE EN ALLIAGE DE CUIVRE POUR DECOLLETAGE, ET PROCEDE DE PRODUCTION DE PIECE COULEE EN ALLIAGE DE CUIVRE POUR DECOLLETAGE**  
[72] OISHI, KEIICHIRO, JP  
[72] SUZAKI, KOUICHI, JP  
[72] GOTO, HIROKI, JP  
[73] MITSUBISHI MATERIALS CORPORATION, JP  
[85] 2021-11-29  
[86] 2020-02-17 (PCT/JP2020/006037)  
[87] (WO2020/261636)  
[30] JP (2019-116914) 2019-06-25  
[30] JP (2019-130143) 2019-07-12  
[30] JP (2019-141096) 2019-07-31  
[30] JP (2019-163773) 2019-09-09  
[30] JP (PCT/JP2019/048438) 2019-12-11  
[30] JP (PCT/JP2019/048455) 2019-12-11  
[30] JP (PCT/JP2019/050255) 2019-12-23

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[11] **3,142,716**  
[13] C

[51] **Int.Cl. B29C 49/22 (2006.01) B29C 48/16 (2019.01)**  
[25] EN  
[54] **BLOWN FILM COEXTRUSION LINE WITH POLYGONAL EXTRUDER ARRANGEMENT**  
[54] **LIGNE DE COEXTRUSION DE FILM SOUFFLE AYANT UNE CONFIGURATION D'EXTRUDEUSE POLYGONALE**  
[72] SCHIRMER, HENRY G., US  
[72] TRIVETTE, ROGER BLAINE, US  
[72] HAMPSHIRE, MATTHEW G., US  
[73] BBS CORPORATION, US  
[86] (3142716)  
[87] (3142716)  
[22] 2021-12-23  
[30] US (17/226,921) 2021-04-09  
[30] US (17/403,039) 2021-08-16



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[11] **3,143,514**  
[13] C

[51] **Int.Cl. B63B 27/14 (2006.01) B63B 3/00 (2006.01) B63B 21/00 (2006.01) B63H 19/08 (2006.01)**

[25] EN

[54] **DOOR SYSTEMS AND METHOD FOR BOATS**

[54] **SYSTEMES DE PORTE ET PROCEDE POUR BATEAUX**

[72] DAY, THOMAS M., US

[73] DAY, THOMAS M., US

[86] (3143514)

[87] (3143514)

[22] 2016-06-16

[62] 2,990,390

[30] US (14/746,672) 2015-06-22

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[11] **3,144,408**  
[13] C

[51] **Int.Cl. G10L 19/018 (2013.01)**

[25] EN

[54] **RESEARCH DATA GATHERING**

[54] **REGROUPEMENT DE DONNEES DE RECHERCHE**

[72] NEUHAUSER, ALAN R., US

[72] CRYSTAL, JACK C., US

[73] ARBITRON INC., US

[86] (3144408)

[87] (3144408)

[22] 2008-01-25

[62] 3,063,376

[30] US (60/897,349) 2007-01-25

[30] US (60/886,615) 2007-01-25

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[11] **3,144,685**  
[13] C

[51] **Int.Cl. G06F 1/16 (2006.01) G06F 1/20 (2006.01) H05K 5/03 (2006.01) H05K 7/20 (2006.01)**

[25] EN

[54] **ELECTRONIC APPARATUS AND EXTERIOR PANEL THEREOF**

[54] **APPAREIL ELECTRONIQUE ET PANNEAU EXTERIEUR CONNEXE**

[72] MORISAWA, YUJIN, JP

[72] OOTORI, YASUHIRO, JP

[72] ETO, KAZUTAKA, JP

[72] TAMAKI, YUTA, JP

[72] UEDA, TOSHIHIRO, JP

[73] SONY INTERACTIVE ENTERTAINMENT INC., JP

[85] 2022-01-18

[86] 2021-03-25 (PCT/JP2021/012749)

[87] (WO2021/193881)

[30] JP (2020-059189) 2020-03-27

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[11] **3,146,402**  
[13] C

[51] **Int.Cl. F28D 19/04 (2006.01) F23L 15/04 (2006.01) F28F 3/04 (2006.01)**

[25] EN

[54] **HEAT TRANSFER ELEMENTS FOR ROTARY HEAT EXCHANGERS**

[54] **ELEMENTS DE TRANSFERT DE CHALEUR POUR ECHANGEURS DE CHALEUR ROTATIFS**

[72] REID, MERON, GB

[72] HOGG, DOUGAL, GB

[73] HOWDEN UK LIMITED, GB

[86] (3146402)

[87] (3146402)

[22] 2018-06-18

[62] 3,066,702

[30] US (15/636,673) 2017-06-29

[30] US (15/703,092) 2017-09-13

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[11] **3,150,292**  
[13] C

[51] **Int.Cl. C08L 27/06 (2006.01) C08F 2/44 (2006.01) C08J 3/09 (2006.01) C08J 5/18 (2006.01) C08L 1/02 (2006.01) C08L 83/04 (2006.01)**

[25] EN

[54] **NANOCRYSTALLINE MATERIALS DISPERSED IN VINYL-CONTAINING POLYMERS AND PROCESSES THEREFOR**

[54] **MATERIAUX NANOCRISTALLINS DISPERSES DANS DES POLYMERES CONTENANT DU VINYLE ET LEURS PROCEDES**

[72] HENDERSON, KEVIN O., US

[73] AVERY DENNISON CORPORATION, US

[85] 2022-02-07

[86] 2020-07-30 (PCT/US2020/044253)

[87] (WO2021/025950)

[30] US (62/883,179) 2019-08-06

[30] US (62/937,826) 2019-11-20

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[11] **3,151,931**  
[13] C

[51] **Int.Cl. G06Q 10/047 (2023.01) G06Q 50/30 (2012.01) G08G 1/0968 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR GENERATING REAL-TIME ROUTING FOR ON-DEMAND TRANSPORTATION**

[54] **SYSTEME ET PROCEDE PERMETTANT DE GENERER UN ROUTAGE EN TEMPS REEL POUR UN TRANSPORT A LA DEMANDE**

[72] HUNT, JUSTIN, CA

[72] HUDSON, BENJAMIN, CA

[72] PELLETIER, SAMUEL, CA

[73] BLAISE TRANSIT LTD., CA

[85] 2022-03-21

[86] 2021-08-06 (PCT/CA2021/051098)

[87] (WO2022/027144)

[30] US (63/062,577) 2020-08-07

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[11] **3,155,593**  
[13] C

[51] **Int.Cl. G06T 7/50 (2017.01) B60W 40/12 (2012.01) G01S 17/89 (2020.01) G05D 1/02 (2020.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR TRAINING AND VALIDATING A PERCEPTION SYSTEM**

[54] **PROCEDES ET SYSTEMES D'APPRENTISSAGE ET DE VALIDATION D'UN SYSTEME DE PERCEPTION**

[72] NEHMADI, YOUVAL, IL

[72] BEN EZRA, SHAHAR, IL

[72] MANGAN, SHMUEL, IL

[72] WAGNER, MARK, IL

[72] COHEN, ANNA, IL

[72] AVITAL, ITZIK, IL

[73] VAYAVISION SENSING LTD., IL

[85] 2022-03-22

[86] 2020-09-22 (PCT/IL2020/051028)

[87] (WO2021/053680)

[30] US (62/903,846) 2019-09-22

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[11] **3,156,884**  
[13] C

[51] **Int.Cl. G01R 15/06 (2006.01) G01R 15/16 (2006.01)**  
[25] EN  
[54] **VOLTAGE SENSOR AND VOLTAGE DIVIDING DEVICE**  
[54] **CAPTEUR DE TENSION ET DISPOSITIF DE DIVISION DE TENSION**  
[72] JUSCHICZ, NORBERT, AT  
[72] BACHER, WILLIBALD, AT  
[73] GREENWOOD-POWER GMBH, AT  
[85] 2022-05-02  
[86] 2020-11-04 (PCT/EP2020/080971)  
[87] (WO2021/094166)  
[30] AT (A50984/2019) 2019-11-14

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[11] **3,161,491**  
[13] C

[51] **Int.Cl. A61K 31/4045 (2006.01) A61K 31/675 (2006.01) A61K 36/06 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61P 25/00 (2006.01) B01D 11/02 (2006.01)**  
[25] EN  
[54] **VAPORIZABLE PSYCHOACTIVE ALKALOID COMPOSITION AND PREPARATION THEREOF**  
[54] **COMPOSITION D'ALCALOIDE PSYCHOACTIF A VAPORISER ET PREPARATION CONNEXE**  
[72] LIGHTBURN, BENJAMIN, CA  
[72] MOSS, RYAN, CA  
[72] RANKEN, LISA, CA  
[73] PSILO SCIENTIFIC LTD., CA  
[85] 2022-06-03  
[86] 2021-12-22 (PCT/CA2021/051876)  
[87] (3161491)  
[30] US (63/139,453) 2021-01-20

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[11] **3,162,243**  
[13] C

[51] **Int.Cl. G01S 13/76 (2006.01)**  
[25] FR  
[54] **AUTO-LOCATION METHOD AND SYSTEM USING RADIOELECTRIC SIGNALS, CORRESPONDING PROGRAM AND PROGRAM MEDIUM**  
[54] **PROCEDE ET SYSTEME D'AUTO-LOCALISATION A PARTIR D'ONDES RADIOELECTRIQUES, PROGRAMME ET SUPPORT DE PROGRAMME**  
[54] **CORRESPONDANTS**  
[72] BERTHELE, PATRICK, FR  
[72] JAULIN, JEAN-PHILIPPE, FR  
[73] SAGEMCOM BROADBAND SAS, FR  
[85] 2022-06-16  
[86] 2020-12-18 (PCT/EP2020/087310)  
[87] (WO2021/123374)  
[30] FR (FR1914966) 2019-12-19

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[11] **3,162,597**  
[13] C

[51] **Int.Cl. A43B 3/26 (2006.01) A43B 3/24 (2006.01)**  
[25] EN  
[54] **ADJUSTABLE FOOTBEDS FOR FOOTWEAR**  
[54] **SEMELLES REGLABLES POUR CHAUSSURES**  
[72] CHENEY, CRAIG, US  
[72] MUNGER, SETH, US  
[72] EDWARDS, AISLYNN, US  
[72] BULLOCK, DANIELLE, US  
[73] FAST IP, LLC, US  
[85] 2022-06-21  
[86] 2020-07-13 (PCT/US2020/041804)  
[87] (WO2021/141633)  
[30] US (62/957,822) 2020-01-07  
[30] US (63/004,850) 2020-04-03

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[11] **3,163,790**  
[13] C

[51] **Int.Cl. G05B 17/02 (2006.01)**  
[25] EN  
[54] **PROGNOSTICS FOR IMPROVED MAINTENANCE OF VEHICLES**  
[54] **PRONOSTIC DE MAINTENANCE AMELIOREE DE VEHICULES**  
[72] DIXIT, SUNIL, US  
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US  
[85] 2022-07-05  
[86] 2021-02-11 (PCT/US2021/017525)  
[87] (WO2021/173356)  
[30] US (16/801,596) 2020-02-26

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[11] **3,168,773**  
[13] C

[51] **Int.Cl. B08B 3/08 (2006.01) B08B 3/10 (2006.01) B41L 41/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR AUTOMATICALLY CLEANING CONVERTERS WITH HEATED FLUIDS**  
[54] **SYSTEMES ET PROCEDES DESTINES AU NETTOYAGE AUTOMATIQUE DE CONVERTISSEURS AVEC DES FLUIDES CHAUFFES**  
[72] LITERSKI, GEOFFREY, AU  
[73] ECOCHEM AUSTRALIA PTY LTD, AU  
[85] 2022-08-19  
[86] 2021-08-31 (PCT/AU2021/051009)  
[87] (WO2022/099346)  
[30] AU (2020904107) 2020-11-10  
[30] AU (2021221846) 2021-08-25

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[11] **3,176,091**  
[13] C

[51] **Int.Cl. C07F 9/572 (2006.01) C07D 209/08 (2006.01) C07D 209/12 (2006.01) C07D 209/14 (2006.01) C07D 209/16 (2006.01)**  
[25] EN  
[54] **METHOD OF SYNTHESIZING INDOLE COMPOUNDS**  
[54] **PROCEDE DE SYNTHESE DE COMPOSES D'INDOLE**  
[72] HEIN, JASON ELLIS, CA  
[72] CAO, BLESSING, CA  
[72] CHEN, SHAO-KAI (PATRICK), CA  
[72] SANZ, COREY, CA  
[73] 1280225 B.C. LTD., CA  
[85] 2022-09-20  
[86] 2021-12-17 (PCT/CA2021/051833)  
[87] (WO2022/140844)  
[30] US (63/133,056) 2020-12-31  
[30] US (63/253,961) 2021-10-08

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[11] **3,178,336**  
[13] C

[51] **Int.Cl. G09B 23/32 (2006.01) G09B 9/00 (2006.01)**  
[25] EN  
[54] **AIRWAY RESISTANCE DEVICE**  
[54] **DISPOSITIF DE RESISTANCE DES VOIES RESPIRATOIRES**  
[72] CARON, FRANCOIS, CA  
[72] BONNEVILLE, MYRIAM, CA  
[72] FLAMAND, JEAN-SEBASTIEN, CA  
[72] FRADETTE, YANICK, CA  
[73] CAE HEALTHCARE CANADA INC., CA  
[85] 2022-09-27  
[86] 2022-03-29 (PCT/CA2022/050464)  
[87] (WO2022/204798)  
[30] US (63/167,604) 2021-03-29

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[11] **3,182,202**  
[13] C

[51] **Int.Cl. F21S 4/26 (2016.01) F21K 9/20 (2016.01) F21V 17/02 (2006.01) F21V 17/06 (2006.01) F21V 17/16 (2006.01) F21V 21/15 (2006.01)**  
[25] EN  
[54] **CONVERTIBLE LIGHT DEVICE**  
[54] **DISPOSITIF LUMINEUX CONVERTIBLE**  
[72] WU, ARTHUR CHAO-CHUNG, US  
[72] WEIS, JARRET, US  
[72] BURNS, DAVID, US  
[73] GOOD BISON, US  
[85] 2022-12-09  
[86] 2021-06-14 (PCT/US2021/037284)  
[87] (WO2021/257483)  
[30] US (63/039,354) 2020-06-15

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[11] **3,182,406**  
[13] C

[51] **Int.Cl. G06N 3/08 (2023.01) A23L 35/00 (2016.01) G06N 3/044 (2023.01) G06N 3/0455 (2023.01) A23L 5/00 (2016.01) A23L 33/105 (2016.01)**  
[25] EN  
[54] **LATENT SPACE METHOD OF GENERATING FOOD FORMULAS**  
[54] **PROCEDE A ESPACE LATENT DE GENERATION DE FORMULES ALIMENTAIRES**  
[72] PATEL, AADIT, CL  
[72] KORSUNSKY, OFER PHILIP, CL  
[72] PICHARA, KARIM, CL  
[72] NAVON, YOAV, CL  
[72] HAUSMAN, RICHARD, CL  
[73] NOTCO DELAWARE, LLC, CL  
[85] 2022-12-12  
[86] 2020-07-23 (PCT/US2020/043330)  
[87] (WO2022/010503)  
[30] US (16/924,006) 2020-07-08

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[11] **3,182,408**  
[13] C

[51] **Int.Cl. G16C 20/10 (2019.01) G16C 20/30 (2019.01) G16C 20/70 (2019.01)**  
[25] EN  
[54] **NEURAL NETWORK METHOD OF GENERATING FOOD FORMULAS**  
[54] **PROCEDE BASE SUR UN RESEAU DE NEURONES ARTIFICIELS POUR LA GENERATION DE FORMULES ALIMENTAIRES**  
[72] NAVON, YOAV, CL  
[72] PICHARA, KARIM, CL  
[72] PATEL, AADIT, CL  
[72] KORSUNSKY, OFER PHILIP, CL  
[72] HAUSMAN, RICHARD, CL  
[73] NOTCO DELAWARE, LLC, CL  
[85] 2022-12-12  
[86] 2021-01-27 (PCT/US2021/015328)  
[87] (WO2022/035464)  
[30] US (16/989,413) 2020-08-10

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[11] **3,187,257**  
[13] C

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 34/10 (2006.01)**  
[25] EN  
[54] **DOWNHOLE DEVICE DART AND DOWNHOLE DEVICE**  
[54] **FLECHE DE DISPOSITIF DE FOND DE Puits ET DISPOSITIF DE FOND DE Puits**  
[72] TAKAHASHI, SHINYA, JP  
[73] KUREHA CORPORATION, JP  
[85] 2023-01-25  
[86] 2021-07-09 (PCT/JP2021/025879)  
[87] (WO2022/024711)  
[30] JP (2020-130685) 2020-07-31

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[11] **3,191,761**  
[13] C

[51] **Int.Cl. B28B 1/00 (2006.01) B33Y 10/00 (2015.01) B33Y 40/00 (2020.01) B29C 64/165 (2017.01) B28B 5/04 (2006.01) B28B 7/18 (2006.01) B28B 7/46 (2006.01) B28B 19/00 (2006.01) B28B 23/02 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING A PREFABRICATED 3D-PRINTED PART**  
[54] **PROCEDE POUR PRODUIRE UNE PIECE PREFABRIQUEE PAR IMPRESSION 3D**  
[72] WOHLGEMUTH, KURT, IT  
[72] ENDERES, KARL, IT  
[73] PROGRESS MASCHINEN & AUTOMATION AG, IT  
[85] 2023-02-13  
[86] 2021-08-12 (PCT/EP2021/072530)  
[87] (WO2022/034186)  
[30] AT (A 50678/2020) 2020-08-13

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[11] **3,196,174**  
[13] C

[51] **Int.Cl. E02F 3/40 (2006.01) E02F 9/00 (2006.01)**  
[25] EN  
[54] **LOCKING SYSTEM FOR BUCKET DOOR**  
[54] **SYSTEME DE VERROUILLAGE POUR VOLET DE GODET D'EXCAVATION**  
[72] PAINCHAUD, MATHIAS, CA  
[73] 9257-5810 QUEBEC INC., CA  
[85] 2023-03-22  
[86] 2021-09-22 (PCT/CA2021/051314)  
[87] (WO2022/061450)  
[30] US (63/081,582) 2020-09-22

# Canadian Applications Open to Public Inspection

July 9, 2023 to July 15, 2023

## Demandes canadiennes mises à la disponibilité du public

9 juillet 2023 au 15 juillet 2023

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[21] **3,138,588**  
[13] A1  
[51] **Int.Cl. H01B 9/02 (2006.01) H05K 9/00 (2006.01)**  
[25] EN  
[54] **SHIELDED RAILS ARE THE SOLUTIONS FOR THE 21ST CENTURY**  
[54] **LES RAILS BLINDES SONT LA SOLUTION POUR LE 21E SIECLE**  
[72] UNKNOWN, XX  
[71] NOWAKOWSKI, JANUSZ BOLESZAW, CA  
[22] 2022-01-10  
[41] 2023-07-10

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[21] **3,145,073**  
[13] A1  
[51] **Int.Cl. F21V 21/34 (2006.01) F21V 21/03 (2006.01)**  
[25] EN  
[54] **LIGHT FIXTURE MOUNTING BRACKET ASSEMBLY**  
[54] **ASSEMBLAGE DE SUPPORT DE MONTAGE D'APPAREIL D'ECLAIRAGE**  
[72] PRESZ-LAFRENIERE, CHRISTOPHER, CA  
[72] CHAIMBERG, ADAM, CA  
[72] XIANWEN, XIONG, CN  
[72] PRESZ-LAFRENIERE, CHRISTOPHER, CA  
[72] CHAIMBERG, ADAM, CA  
[72] XIANWEN, XIONG, CN  
[71] GLOBE ELECTRIC COMPANY INC., CA  
[22] 2022-01-14  
[41] 2023-07-14

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[21] **3,145,130**  
[13] A1  
[51] **Int.Cl. H02K 1/00 (2006.01) H02K 11/01 (2016.01) H02K 21/14 (2006.01)**  
[25] EN  
[54] **DEVICE FOR GENERATING ELECTRICITY WHILE REDUCING RESTRICTIVE ELECTROMOTIVE FORCES UPON A ROTOR MAGNET**  
[54] **DISPOSITIF POUR GENERER DE L'ELECTRICITE, TOUT EN REDUISANT LES FORCES ELECTROMOTRICES CONTRAIGNANTES SUR UN AIMANT DE ROTOR**  
[72] JOSEPH, DAVID, CA  
[72] JOSEPH, DAVID, CA  
[71] JOSEPH, DAVID, CA  
[71] JOSEPH, DAVID, CA  
[22] 2022-01-10  
[41] 2023-07-10

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[21] **3,145,134**  
[13] A1  
[51] **Int.Cl. A63F 3/00 (2006.01)**  
[25] EN  
[54] **MAGICRATE: THE 3D PRINTED MODULAR GM BOX**  
[54] **MAGICRATE : LE COFFRET DE MAITRE DE JEU MODULAIRE IMPRIME EN 3D**  
[72] BARKMAN, QUINN, CA  
[72] IMBERY, JACOB, CA  
[71] BARKMAN, QUINN, CA  
[71] IMBERY, JACOB, CA  
[22] 2022-01-10  
[41] 2023-07-10

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[21] **3,145,502**  
[13] A1  
[51] **Int.Cl. G08B 21/24 (2006.01)**  
[25] EN  
[54] **TOILET TRAINING TIMER SYSTEM**  
[54] **SYSTEME DE MINUTERIE D'APPRENTISSAGE DE LA PROPRETE**  
[72] FOSTER, DEBBIE, CA  
[71] FOSTER, DEBBIE, CA  
[22] 2022-01-12  
[41] 2023-07-11  
[30] US (17/572,729) 2022-01-11

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[21] **3,145,559**  
[13] A1  
[51] **Int.Cl. G01G 23/01 (2006.01) G01G 19/08 (2006.01) G07C 3/00 (2006.01) G09B 19/00 (2006.01) E02F 3/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS, METHODS, AND MEDIA FOR INSTRUCTING POWER SHOVEL OPERATORS**  
[54] **SYSTEMES, METHODES ET SUPPORT POUR LES CONSIGNES AUX OPERATEURS DE PELLE MECANIQUE**  
[72] ROUSELL, TOBI, CA  
[72] DO, AN KHAC, CA  
[72] LUTHER, DANIEL LAVERNE, CA  
[71] SUNCOR ENERGY INC., CA  
[22] 2022-01-13  
[41] 2023-07-13

**Demandes canadiennes mises à la disponibilité du public**  
**9 juillet 2023 au 15 juillet 2023**

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[21] **3,145,566**  
[13] A1

[51] **Int.Cl. B65G 13/02 (2006.01) B65G 39/02 (2006.01)**

[25] EN

[54] **CONVEYOR DRIVE ROLLER WITH REPLACEABLE CONVEYOR DRIVE SURFACE**

[54] **ROULEAU D'ENTRAINEMENT DE CONVOYEUR AVEC SURFACE D'ENTRAINEMENT REMPLACABLE**

[72] KANARIS, ALEXANDER D., CA

[71] VAN DER GRAAF INC., CA

[22] 2022-01-14

[41] 2023-07-14

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[21] **3,145,586**  
[13] A1

[51] **Int.Cl. C08L 101/02 (2006.01) H01M 10/056 (2010.01) C08K 3/013 (2018.01) C08J 3/24 (2006.01) C08K 5/37 (2006.01) C08L 81/02 (2006.01) H01M 4/62 (2006.01) H01M 6/18 (2006.01) C08G 75/045 (2016.01)**

[25] FR

[54] **POLYMER-INORGANIC PARTICLE COMPOSITES, PROCESS FOR FABRICATING THE SAME, AND USE IN ELECTROCHEMICAL CELLS**

[54] **COMPOSITION POLYMERE-PARTICULES INORGANIQUES, PROCEDES DE FABRICATION ET UTILISATION DANS DES CELLULES ELECTROCHIMIQUES**

[72] ZHANG, XUEWEI, CA

[72] FLEUTOT, BENOIT, CA

[72] GARITTE, EMMANUELLE, CA

[71] HYDRO-QUEBEC, CA

[22] 2022-01-14

[41] 2023-07-14

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[21] **3,145,589**  
[13] A1

[51] **Int.Cl. G06F 30/27 (2020.01) G06F 30/13 (2020.01)**

[25] EN

[54] **CONSTRUCTION DESIGN SYSTEM WITH GENETIC ALGORITHM**

[54] **SYSTEME DE CONCEPTION DE CONSTRUCTION COMPRENANT UN ALGORITHME GENETIQUE**

[72] WHALE, LUKE, GB

[72] KNIGHT, CHRISTOPHER, GB

[72] KERAMATI, MOHAMMADMAHDI, GB

[71] DAISY AI INC., CA

[22] 2022-01-13

[41] 2023-07-13

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[21] **3,145,591**  
[13] A1

[51] **Int.Cl. H01M 10/056 (2010.01) H01M 6/18 (2006.01)**

[25] FR

[54] **SOLID ELECTROLYTES COMPRISING A BIFUNCTIONAL IONIC MOLECULE, AND THEIR USE IN ELECTROCHEMISTRY**

[54] **ELECTROLYTES SOLIDES COMPRENANT UNE MOLECULE BIFONCTIONNELLE IONIQUE, ET LEUR UTILISATION EN ELECTROCHIMIE**

[72] FLEUTOT, BENOIT, CA

[72] ZHANG, XUEWEI, CA

[72] GARITTE, EMMANUELLE, CA

[71] HYDRO-QUEBEC, CA

[22] 2022-01-14

[41] 2023-07-14

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[21] **3,145,602**  
[13] A1

[51] **Int.Cl. B26D 1/147 (2006.01) B26B 25/00 (2006.01) B26D 7/00 (2006.01) B26D 7/06 (2006.01)**

[25] EN

[54] **FOLDABLE MANUAL FOOD-SLICING APPARATUS AND CORRESPONDING METHOD**

[54] **TRANCHEUSE D'ALIMENTS MANUELLE PLIANTE ET METHODE CORRESPONDANTE**

[72] KORN, ERIC, CA

[72] BELIVEAU, STEPHANE, CA

[72] LOWE, JEAN-SEBASTIEN, CA

[71] LES PROMOTIONS ATLANTIQUES INC., CA

[22] 2022-01-14

[41] 2023-07-14

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[21] **3,145,610**  
[13] A1

[51] **Int.Cl. B42D 25/41 (2014.01) B42D 25/328 (2014.01) B42D 25/373 (2014.01) B42D 25/45 (2014.01)**

[25] EN

[54] **SECURITY FEATURE WITH METALLIZATION FOR SECURITY DOCUMENTS**

[54] **DISPOSITIF DE SECURITE AVEC METALLISATION POUR LES DOCUMENTS DE SECURITE**

[72] GAUDREAU, MARC, CA

[72] THURAILINGAM, THIVAHARAN, CA

[71] CANADIAN BANK NOTE COMPANY, LIMITED, CA

[22] 2022-01-14

[41] 2023-07-14

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[21] **3,145,611**  
[13] A1

[51] **Int.Cl. H01M 4/62 (2006.01) H01M 10/0525 (2010.01) H01M 6/18 (2006.01)**

[25] FR

[54] **ELECTRODE MATERIAL WITH ORGANIC LAYER, PROCESSES FOR PREPARATION, AND ELECTROCHEMICAL USES**

[54] **MATERIAU D'ELECTRODE AVEC COUCHE ORGANIQUE, PROCEDES DE PREPARATION, ET UTILISATIONS ELECTROCHIMIQUES**

[72] DELAPORTE, NICOLAS, CA

[72] VIGEANT, MARIE-JOSEE, CA

[72] FLEUTOT, BENOIT, CA

[72] DAIGLE, JEAN-CHRISTOPHE, CA

[72] KOZELJ, MATJAZ, FR

[71] HYDRO-QUEBEC, CA

[71] SCE FRANCE, FR

[22] 2022-01-14

[41] 2023-07-14

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[21] **3,145,653**  
[13] A1

[51] **Int.Cl. E04B 1/343 (2006.01) E04B 1/348 (2006.01)**

[25] EN

[54] **MODULAR SYSTEM**

[54] **SYSTEME MODULAIRE**

[72] VARIAS, NICHOLAS, CA

[71] VARIAS, NICHOLAS, CA

[22] 2022-01-14

[41] 2023-07-14

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[21] **3,145,663**  
[13] A1

[51] **Int.Cl. E21B 10/44 (2006.01) E02D 5/34 (2006.01) E02D 7/22 (2006.01) E21B 10/26 (2006.01)**

[25] EN  
[54] **PILE CAP AUGER**  
[54] **TARIERE A CASQUE DE BATTAGE**

[72] WORTHING, SCOTT, CA  
[72] FORSTER, KEVIN, CA  
[71] WORTHING, SCOTT, CA  
[71] FORSTER, KEVIN, CA  
[22] 2022-01-13  
[41] 2023-07-13

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[21] **3,145,682**  
[13] A1

[51] **Int.Cl. B60S 1/38 (2006.01)**

[25] EN  
[54] **WIPER STRUCTURE**  
[54] **STRUCTURE D'ESSUIE-GLACE**

[72] CHANG, CHE-WEI, TW  
[72] YANG, CHENG-KAI, TW  
[71] DANYANG UPC AUTO PARTS CO., LTD., CN  
[22] 2022-01-14  
[41] 2023-07-14

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[21] **3,145,691**  
[13] A1

[51] **Int.Cl. B60S 1/40 (2006.01)**

[25] EN  
[54] **WIPER ASSEMBLING STRUCTURE**  
[54] **STRUCTURE D'ASSEMBLAGE D'ESSUIE-GLACE**

[72] CHANG, CHE-WEI, TW  
[72] YANG, CHENG-KAI, TW  
[71] DANYANG UPC AUTO PARTS CO., LTD., CN  
[22] 2022-01-14  
[41] 2023-07-14

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[21] **3,145,749**  
[13] A1

[51] **Int.Cl. G16Z 99/00 (2019.01)**

[25] EN  
[54] **A SYSTEM AND METHOD FOR FREELANCE JOURNALISM**  
[54] **SYSTEME ET METHODE DE JOURNALISME A LA PIGE**

[72] SHAHEE, MOSTAFA, CA  
[71] SHAHEE, MOSTAFA, CA  
[22] 2022-01-15  
[41] 2023-07-15

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[21] **3,147,617**  
[13] A1

[51] **Int.Cl. E05B 17/20 (2006.01) E05C 17/50 (2006.01) E05C 19/00 (2006.01)**

[25] EN  
[54] **DOOR BARRICADE WITH SINGLE MOTION EGRESS SYSTEM**  
[54] **BARRICADE DE PORTE AVEC SYSTEME D'EVACUATION EN UN SEUL MOUVEMENT**

[72] SILVANI, JR., MICHAEL, ANGELO, US  
[72] JOHNSON, III, ERNEST, LAWRENCE, US  
[71] RHINOWARE CONNECT, LLC, US  
[22] 2022-02-03  
[41] 2023-07-13  
[30] US (17/575,206) 2022-01-13

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[21] **3,147,997**  
[13] A1

[51] **Int.Cl. E21B 19/086 (2006.01) E21B 19/08 (2006.01) E21B 23/00 (2006.01)**

[25] EN  
[54] **ROD JACK APPARATUS**  
[54] **APPAREIL D'ELEVATEUR**

[72] GORDEY, KENNETH NICHOLAS, CA  
[72] ZIEGLER, MARK, US  
[72] FOSTER, ROB, CA  
[72] KIRKHAMMER, KENT, US  
[72] MERCIER, REAL, US  
[72] SEIFERT, JAROD JAMES, US  
[71] NEWKOTA SERVICES AND RENTALS, LLC, US  
[22] 2022-02-07  
[41] 2023-07-09  
[30] US (17/571,493) 2022-01-09

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[21] **3,148,684**  
[13] A1

[51] **Int.Cl. G02C 5/12 (2006.01)**

[25] EN  
[54] **EYEWEAR WITH IMPROVED NOSE PAD ASSEMBLIES**  
[54] **LUNETTES A ASSEMBLAGES DE PLAQUETTES AMELIOREES**

[72] WILLIAMS, ROY KENNETH, CA  
[71] FGX INTERNATIONAL INC., US  
[22] 2022-02-14  
[41] 2023-07-14  
[30] US (17/576715) 2022-01-14

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[21] **3,151,318**  
[13] A1

[51] **Int.Cl. G06F 21/44 (2013.01) G06Q 40/04 (2012.01)**

[25] EN  
[54] **SYSTEM AND METHOD FOR PROVIDING DATA ACCESS**  
[54] **SYSTEME ET PROCEDE POUR FOURNIR UN ACCES A DES DONNEES**

[72] LANGHAM, STEVE, CA  
[72] NAVARRO, MIGUEL, CA  
[72] NG FUNG, ELKIN, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2022-03-07  
[41] 2023-07-14  
[30] US (17/576,596) 2022-01-14

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[21] **3,157,010**  
[13] A1

[51] **Int.Cl. H01R 13/639 (2006.01) H01R 13/64 (2006.01) H02J 7/00 (2006.01)**

[25] EN  
[54] **BATTERY POWERED SYSTEM AND BATTERY POWERED METHOD**  
[54] **SYSTEME ALIMENTE PAR BATTERIE ET METHODE D'ALIMENTATION BATTERIE**

[72] CHAN, YUAN CHEN, TW  
[72] WANG, CHIH-KE, TW  
[72] CHANG, CHIN-HSING, TW  
[71] ATOP TECHNOLOGIES, INC., TW  
[22] 2022-04-21  
[41] 2023-07-14  
[30] US (63/299,410) 2022-01-14  
[30] US (17/706,615) 2022-03-29

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[21] **3,159,527**  
[13] A1

[51] **Int.Cl. G01N 1/02 (2006.01)**

[25] EN  
[54] **DEVICE FOR COLLECTING FLUID SPECIMEN**  
[54] **DISPOSITIF POUR LA COLLECTE D'ECHANTILLON LIQUIDE**

[72] FANG, JIANQIU, CN  
[71] ZHEJIANG ORIENT GENE BIOTECH CO., LTD., CN  
[22] 2022-05-19  
[41] 2023-07-10  
[30] CN (2022100248779) 2022-01-10  
[30] US (63/300,811) 2022-01-19

**Demandes canadiennes mises à la disponibilité du public  
9 juillet 2023 au 15 juillet 2023**

[21] **3,173,297**  
[13] A1

[51] **Int.Cl. E04F 13/08 (2006.01) B44C 1/28 (2006.01) E04F 13/072 (2006.01) F16S 1/02 (2006.01)**  
[25] EN  
[54] **WALL PANEL ASSEMBLY**  
[54] **ASSEMBLAGE DE PANNEAU MURAL**  
[72] PRIZZI, GIUSEPPE, CA  
[71] 2840629 ONTARIO INC., CA  
[22] 2022-09-12  
[41] 2023-07-13  
[30] US (63/299,336) 2022-01-13

[21] **3,175,217**  
[13] A1

[51] **Int.Cl. G01S 13/04 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR DETECTING CARGO INSIDE A CONTAINER**  
[54] **METHODE ET SYSTEME POUR DETECTER LES MARCHANDISES DANS UN CONTENEUR**  
[72] GAO, YU, CA  
[72] FULESHWAR PRASAD, MAHENDRA, CA  
[72] LEVATO, ALEXANDER KARL, CA  
[72] DILL, SCOTT LEONARD, CA  
[71] BLACKBERRY LIMITED, CA  
[22] 2022-09-21  
[41] 2023-07-13  
[30] US (17/574,601) 2022-01-13

[21] **3,180,093**  
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**  
[25] EN  
[54] **TRANSCRIPTION SYSTEM WITH CONTEXTUAL AUTOMATIC SPEECH RECOGNITION**  
[54] **SYSTEME DE TRANSCRIPTION AVEC RECONNAISSANCE AUTOMATIQUE DE LA PAROLE CONTEXTUELLE**  
[72] DUTTA, ANIR, US  
[72] GILL, AMRITPAL, US  
[72] PETRUSHINA, LILIYA, US  
[72] PETERS, NIA, US  
[71] STENOGRAPH, L.L.C., US  
[22] 2022-10-26  
[41] 2023-07-13  
[30] US (63/299,065) 2022-01-13

[21] **3,181,325**  
[13] A1

[51] **Int.Cl. F16J 15/3224 (2016.01) F16K 41/00 (2006.01)**  
[25] EN  
[54] **SEAL ASSEMBLY FOR A ROTARY VALVE**  
[54] **ENSEMBLE D'ETANCHEITE POUR UN ROBINET ROTATIF**  
[72] MORNACCHI, ANDREA, IT  
[72] MANTIA, ELIO, IT  
[72] SALVATORIELLO, GIANFRANCO, IT  
[71] MICROTECNICA S.R.L., IT  
[22] 2022-11-02  
[41] 2023-07-11  
[30] EP (22151061.3) 2022-01-11

[21] **3,182,090**  
[13] A1

[51] **Int.Cl. H05K 7/16 (2006.01) A47B 46/00 (2006.01) H05K 5/00 (2006.01)**  
[25] EN  
[54] **RETRACTABLE DISPLAY ARM**  
[54] **BRAS DE PRESENTOIR RETRACTABLE**  
[72] MCCOLLUM, WILLIAM, US  
[71] TOSHIBA INTERNATIONAL CORPORATION, US  
[22] 2022-11-16  
[41] 2023-07-10  
[30] US (17/572,294) 2022-01-10

[21] **3,182,128**  
[13] A1

[51] **Int.Cl. C12M 1/34 (2006.01) B01L 3/00 (2006.01) C12M 1/26 (2006.01) C12M 1/40 (2006.01) C12Q 1/12 (2006.01) C12Q 1/68 (2018.01) G01N 1/28 (2006.01) G01N 1/34 (2006.01)**  
[25] EN  
[54] **TEST DEVICE FOR NUCLEIC ACID**  
[54] **DISPOSITIF D'ESSAI POUR L'ACIDE NUCLEIQUE**  
[72] JIN, XIA, CN  
[72] XIAO, JIE, CN  
[72] HU, BIN, CN  
[72] LIU, JIE, CN  
[71] HANGZHOU XUNLING BIOTECH CO., LTD., CN  
[22] 2022-11-17  
[41] 2023-07-11  
[30] CN (2022100300570) 2022-01-11  
[30] CN (2022111079971) 2022-09-09  
[30] CN (2022111079986) 2022-09-09  
[30] CN (202222410660X) 2022-09-09  
[30] CN (2022224128308) 2022-09-09

[21] **3,182,423**  
[13] A1

[51] **Int.Cl. B25J 1/02 (2006.01)**  
[25] EN  
[54] **NON-CONDUCTIVE MAGNETIC RETRIEVAL TOOL**  
[54] **OUTIL D'EXTRACTION MAGNETIQUE NON CONDUCTEUR**  
[72] KUTER-ARNEBECK, OTTOLEO, US  
[72] JOHNSON, DYLAN, US  
[72] GABBAY, NICHOLAS ALAN, US  
[71] SNAP-ON INCORPORATED, US  
[22] 2022-11-28  
[41] 2023-07-14  
[30] US (17/576,478) 2022-01-14

[21] **3,182,979**  
[13] A1

[51] **Int.Cl. H01H 31/28 (2006.01) H01H 9/20 (2006.01)**  
[25] EN  
[54] **HIGH VOLTAGE DISCONNECT SWITCH WITH SWITCH INTERRUPTER HAVING AN ACTUATING ARM ACTUATED BY AN ARC HORN WITH A SPRING CATCH**  
[54] **SECTIONNEUR HAUTE TENSION COMPRENANT UN INTERRUPTEUR POSSEDANT UN BRAS DE COMMANDE ACTIONNE PAR UN CONDUCTEUR ANTI-ARC AVEC UN CLIQUET A RESSORT**  
[72] TAKACS, TIMOTHY JOSEPH, US  
[71] CLEVELAND/PRICE INC., US  
[22] 2022-11-30  
[41] 2023-07-11  
[30] US (17962588) 2022-10-10  
[30] US (63298286) 2022-01-11

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[21] **3,183,271**  
[13] A1

[51] **Int.Cl. G01R 31/62 (2020.01)**  
[25] EN  
[54] **OPTIMIZING TRANSFORMER  
EXCITING CURRENT AND LOSS  
TEST RESULTS BY  
DYNAMICALLY MANAGING  
CORE MAGNETIC STATE**  
[54] **OPTIMISATION DES RESULTATS  
D'ESSAI DE COURANT  
D'EXCITATION ET DE PERTE  
D'UN TRANSFORMATEUR PAR  
LA GESTION DYNAMIQUE D'UN  
ETAT MAGNETIQUE DU NOYAU**  
[72] WOODWARD, ROBERT C., JR., US  
[72] BORGES, ROBERTO C., US  
[71] DOBLE ENGINEERING COMPANY,  
US  
[22] 2022-11-30  
[41] 2023-07-10  
[30] US (63/298,122) 2022-01-10  
[30] US (17/721,101) 2022-04-14

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[21] **3,183,304**  
[13] A1

[51] **Int.Cl. B65G 13/02 (2006.01) B65G  
39/02 (2006.01)**  
[25] EN  
[54] **CONVEYOR DRIVE ROLLER  
WITH REPLACEABLE  
CONVEYOR DRIVE SURFACE**  
[54] **ROULEAU D'ENTRAINEMENT DE  
CONVOYEUR AVEC SURFACE  
D'ENTRAINEMENT  
REPLACABLE**  
[72] KANARIS, ALEXANDER D., CA  
[71] VAN DER GRAAF INC., CA  
[22] 2022-12-02  
[41] 2023-07-14  
[30] CA (3145566) 2022-01-14

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[21] **3,183,800**  
[13] A1

[51] **Int.Cl. A01D 41/12 (2006.01)**  
[25] EN  
[54] **A RESIDUE COLLECTOR**  
[54] **COLLECTEUR DE RESIDUS**  
[72] DERUYTER, LUCAS, BE  
[72] JONGMANS, DRE, NL  
[72] LEENKNEGT, ARNO, BE  
[72] MISSOTTEN, BART M. A., BE  
[72] BONNE, GEERT, BE  
[72] REUBENS, SAM, BE  
[72] TALLIR, FREDERIK, BE  
[71] CNH INDUSTRIAL BELGIUM N.V.,  
BE  
[22] 2022-12-12  
[41] 2023-07-14  
[30] EP (EP 22151577.8) 2022-01-14

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[21] **3,183,914**  
[13] A1

[51] **Int.Cl. H05B 47/10 (2020.01) G05F  
1/613 (2006.01) H02J 13/00 (2006.01)**  
[25] EN  
[54] **CONTROL CIRCUIT, CONTROL  
METHOD AND LIGHTING  
DEVICE COMPATIBLE WITH  
DINNER/SWITCH**  
[54] **CIRCUIT DE COMMANDE,  
METHODE DE COMMANDE ET  
DISPOSITIF D'ECLAIRAGE  
COMPATIBLE AVEC UN  
GRADATEUR/INTERRUPTEUR**  
[72] ZHU, YIMIN, CN  
[72] HU, CHENYU, CN  
[72] QIAN, XIN, CN  
[72] WANG, AIJUN, CN  
[71] SAVANT TECHNOLOGIES LLC, US  
[22] 2022-12-13  
[41] 2023-07-10  
[30] CN (202210023193.7) 2022-01-10

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[21] **3,184,005**  
[13] A1

[51] **Int.Cl. F16G 11/00 (2006.01)**  
[25] FR  
[54] **MECHANICAL CONNECTING  
DEVICE DESIGNED FOR THE  
DETACHABLE MECHANICAL  
CONNECTION OF THE FREE  
ENDS OF TWO OFFSHORE LINES**  
[54] **DISPOSITIF DE CONNEXION  
MECANIQUE, CONCU POUR LA  
CONNEXION MECANIQUE  
AMOVIBLE DES EXTREMITES  
LIBRES DE DEUX LIGNES  
OFFSHORE**  
[72] BUSSON, PHILIPPE, FR  
[71] NOV-BLM, FR  
[22] 2022-12-14  
[41] 2023-07-12  
[30] FR (2200227) 2022-01-12

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[21] **3,184,069**  
[13] A1

[51] **Int.Cl. B05B 7/16 (2006.01) B05B  
12/00 (2018.01)**  
[25] EN  
[54] **ATOMIZING STRUCTURE,  
ATOMIZER AND AEROSOL  
GENERATING DEVICE**  
[54] **STRUCTURE DE VAPORISATION,  
VAPORISATEUR ET DISPOSITIF  
DE GENERATION D'AEROSOL**  
[72] ZHANG, CHUNHUA, CN  
[71] SHENZHEN DAMAI  
DEVELOPMENT CO., LTD., CN  
[22] 2022-12-15  
[41] 2023-07-12  
[30] CN (CN 202210032701.8) 2022-01-12

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[21] **3,184,387**  
[13] A1

[51] **Int.Cl. G06V 10/74 (2022.01) G06V  
30/40 (2022.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR  
DETERMINING AUTHENTICITY  
OF A DOCUMENT**  
[54] **METHODES ET SYSTEMES POUR  
DETERMINER L'AUTHENTICITE  
D'UN DOCUMENT**  
[72] PEREZ-ROVIRA, ADRIA, ES  
[72] SEZILLE, NICOLAS JACQUES JEAN,  
IE  
[71] DAON ENTERPRISES LIMITED, MT  
[22] 2022-12-20  
[41] 2023-07-11  
[30] US (17/572,721) 2022-01-11



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[21] **3,184,428**  
[13] A1

[51] **Int.Cl. F04B 53/16 (2006.01)**  
[25] EN  
[54] **SEALING ASSEMBLY WITH REPOSITIONABLE SEAL**  
[54] **ENSEMBLE D'ETANCHEITE COMPRENANT UN JOINT D'ETANCHEITE REPOSITIONNABLE**  
[72] AVEY, ADAM BRADLEY, US  
[72] KAY, KONNER CASEY, US  
[72] DEGGINGER, CHRISTOPHER DOUGLAS, US  
[71] GD ENERGY PRODUCTS, LLC, US  
[22] 2022-12-20  
[41] 2023-07-11  
[30] US (17/573,241) 2022-01-11

[21] **3,184,905**  
[13] A1

[51] **Int.Cl. B60R 9/00 (2006.01) B60R 9/08 (2006.01) B62D 33/02 (2006.01) E05B 73/00 (2006.01)**  
[25] EN  
[54] **TWIST LOCK ACCESSORY RACK SYSTEM**  
[54] **SYSTEME DE RATELIER A ACCESSOIRE AVEC VERROU ROTATIF**  
[72] HICKEY, MARK ALAN, US  
[72] FACCHINELLO, JEROME, US  
[72] DELANEY, DAN, US  
[71] EXTANG CORPORATION, US  
[22] 2022-12-23  
[41] 2023-07-13  
[30] US (63/299,067) 2022-01-13

[21] **3,184,927**  
[13] A1

[51] **Int.Cl. A61H 35/02 (2006.01)**  
[25] EN  
[54] **EYE RINSING ELEMENT**  
[54] **APPAREIL DE RINCAGE DES YEUX**  
[72] BARKHOLT, BO WINTHER, DK  
[71] PLUM SAFETY APS, DK  
[22] 2022-12-16  
[41] 2023-07-10  
[30] EP (22150694.2) 2022-01-10

[21] **3,185,042**  
[13] A1

[51] **Int.Cl. A63B 71/10 (2006.01) A41D 13/11 (2006.01) A41D 20/00 (2006.01) A42B 3/20 (2006.01) A42B 7/00 (2006.01)**  
[25] EN  
[54] **FIELDER'S MASK WITH FLEXIBLE RETENTION SYSTEM**  
[54] **MASQUE DE JOUEUR DEFENSIF AVEC SYSTEME DE RETENUE FLEXIBLE**  
[72] HINRICHSSEN, MITCH, US  
[71] RAWLINGS SPORTING GOODS COMPANY, INC., US  
[22] 2022-12-09  
[41] 2023-07-13  
[30] US (17/575,348) 2022-01-13

[21] **3,185,164**  
[13] A1

[51] **Int.Cl. B23P 15/04 (2006.01) F01D 5/00 (2006.01)**  
[25] EN  
[54] **ROTOR LOADING SYSTEM**  
[54] **SYSTEME DE CHARGEMENT DE ROTOR**  
[72] MASSICOTTE, FRANCOIS, CA  
[72] DESGAGNE, MAXIME, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2022-12-13  
[41] 2023-07-13  
[30] US (17/647,897) 2022-01-13

[21] **3,185,512**  
[13] A1

[51] **Int.Cl. E04G 9/00 (2006.01) E04G 9/02 (2006.01)**  
[25] EN  
[54] **SLAB TABLE FOR AT LEAST PARTIAL FORMWORKING OF A CONCRETE SLAB**  
[54] **TABLE DE DALLE POUR LE COFFRAGE AU MOINS PARTIEL D'UNE DALLE DE BETON**  
[72] REITZ, GEORG, DE  
[71] PERI SE, DE  
[22] 2022-12-19  
[41] 2023-07-13  
[30] DE (10 2022 100 754.5) 2022-01-13

[21] **3,185,550**  
[13] A1

[51] **Int.Cl. B05B 11/06 (2006.01) B05B 15/00 (2018.01)**  
[25] EN  
[54] **AEROSOL CAN ACTIVATOR**  
[54] **ACTIVATEUR DE BOMBE AEROSOL**  
[72] HEATLEY, CHRISTOPHER PACKARD, US  
[71] SEYMOUR OF SYCAMORE, INC., US  
[22] 2022-12-21  
[41] 2023-07-12  
[30] US (63/298695) 2022-01-12  
[30] US (18/079526) 2022-12-12

[21] **3,185,774**  
[13] A1

[51] **Int.Cl. G06F 21/45 (2013.01) G06F 21/31 (2013.01) G06F 21/46 (2013.01) G06F 21/62 (2013.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DATA ACCESS FROM AN AIRCRAFT**  
[54] **SYSTEME ET PROCEDE POUR L'ACCES A DES DONNEES DANS UN AERONEF**  
[72] FORTIN, FREDERIC, CA  
[72] MILLER, JONATHAN, CA  
[72] MOOD, JAMES, CA  
[72] WIGNY, ROBERT, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2022-12-29  
[41] 2023-07-10  
[30] US (17/572,564) 2022-01-10

[21] **3,185,853**  
[13] A1

[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/35 (2014.01) A63F 13/80 (2014.01)**  
[25] EN  
[54] **A METHOD FOR A GAMING SYSTEM**  
[54] **METHODE DE SYSTEME DE JEU**  
[72] DOMBI, PETER, MT  
[72] COLLINS, MICHAEL, MT  
[71] PLAY'N GO MARKS LTD, MT  
[22] 2022-12-30  
[41] 2023-07-11  
[30] SE (2250015-1) 2022-01-11

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[21] **3,185,872**  
[13] A1

[51] **Int.Cl. F24C 15/00 (2006.01) A47J 37/07 (2006.01) F24C 1/00 (2006.01) F24C 15/32 (2006.01)**

[25] EN  
[54] **COMBUSTION COOKING APPLIANCE**  
[54] **APPAREIL DE CUISSON A COMBUSTION**  
[72] CONRAD, WAYNE ERNEST, CA  
[71] OMACHRON INTELLECTUAL PROPERTY INC., CA  
[22] 2023-01-04  
[41] 2023-07-10  
[30] US (17/572,323) 2022-01-10

[21] **3,186,085**  
[13] A1

[51] **Int.Cl. A61M 39/24 (2006.01) A61M 39/02 (2006.01) A61M 39/22 (2006.01)**

[25] EN  
[54] **COUPLING APPARATUS FOR INFUSION DEVICE**  
[54] **APPAREIL D'ACCOUPEMENT POUR DISPOSITIF DE PERFUSION**  
[72] DIKEMAN, W. CARY, US  
[72] WILSON, TAYLOR, US  
[71] NEXUS MEDICAL, LLC, US  
[22] 2023-01-09  
[41] 2023-07-12  
[30] US (17/573.769) 2022-01-12

[21] **3,186,144**  
[13] A1

[51] **Int.Cl. A47L 11/34 (2006.01) A47L 11/40 (2006.01) A47L 13/26 (2006.01)**

[25] EN  
[54] **SURFACE CLEANING APPARATUS WITH STEAM**  
[54] **APPAREIL DE NETTOYAGE DE SURFACE AVEC VAPEUR**  
[72] DEJONGE, MITCHELL J., US  
[72] ALT, RYAN J., US  
[72] JOHNSON, STEVE M., US  
[71] BISSELL INC., US  
[22] 2023-01-09  
[41] 2023-07-10  
[30] US (63/297,851) 2022-01-10

[21] **3,185,885**  
[13] A1

[25] EN  
[54] **COMMON SIGNAL CONDITIONING CIRCUIT FOR TEMPERATURE SENSOR**  
[54] **CIRCUIT DE CONDITIONNEMENT DE SIGNAUX COMMUNS POUR UN CAPTEUR DE TEMPERATURE**  
[72] KUMAR, DHANANJAY, IN  
[72] SHARMA, KRISHAN KANT, IN  
[72] SREEDHAR, SWATHIKA, IN  
[71] HAMILTON SUNDSTRAND CORPORATION, US  
[22] 2023-01-04  
[41] 2023-07-12  
[30] IN (202211001726) 2022-01-12

[21] **3,186,092**  
[13] A1

[51] **Int.Cl. B65D 33/36 (2006.01) A47K 10/42 (2006.01) B65D 30/10 (2006.01) B65D 30/12 (2006.01) B65D 30/22 (2006.01) B65D 30/28 (2006.01) B65D 33/25 (2006.01)**

[25] EN  
[54] **WIPES BAG**  
[54] **SAC DE SERVIETTES**  
[72] COFFEY, JOHN MATTHEW  
[72] ARNOLD, CA  
[71] PEEL PLASTIC PRODUCTS LTD., CA  
[22] 2023-01-09  
[41] 2023-07-12  
[30] US (63/298,736) 2022-01-12

[21] **3,186,149**  
[13] A1

[51] **Int.Cl. E06B 9/322 (2006.01)**

[25] EN  
[54] **ACTUATOR SYSTEM FOR WINDOW SHADES**  
[54] **SYSTEME D'ACTIONNEUR POUR DES STORES DE FENETRE**  
[72] DERK, CHARLES, JR, US  
[72] CAMPAGNA, MICHAEL, US  
[72] FIGUEROA, ARMANDO, US  
[72] LIU, JAMES, US  
[71] THE WATT STOPPER, INC., US  
[22] 2023-01-12  
[41] 2023-07-12  
[30] US (US 63/298,838) 2022-01-12

[21] **3,186,031**  
[13] A1

[51] **Int.Cl. C25B 9/19 (2021.01) C25B 9/65 (2021.01) C25B 9/77 (2021.01) C25B 13/07 (2021.01) H01M 8/1246 (2016.01) H01M 8/2432 (2016.01)**

[25] EN  
[54] **OPTIMIZED PROCESSING OF ELECTRODES FOR SOFC AND SOEC**  
[54] **TRAITEMENT OPTIMISE D'ELECTRODES POUR PILE A OXYDE SOLIDE ET ELECTROLYSEUR A OXYDE SOLIDE**  
[72] ARMSTRONG, TAD, US  
[72] RAILSBACK, JUSTIN, US  
[71] BLOOM ENERGY CORPORATION, US  
[22] 2023-01-10  
[41] 2023-07-10  
[30] US (63/298,204) 2022-01-10

[21] **3,186,140**  
[13] A1

[51] **Int.Cl. A47J 37/07 (2006.01) F23K 5/22 (2006.01) F24C 3/00 (2006.01)**

[25] EN  
[54] **GRILLING DEVICE HAVING A GAS CONNECTION**  
[54] **DISPOSITIF DE GRILLAGE COMPRENANT UN RACCORD A GAZ**  
[72] ROPER, NICKY, DE  
[71] WWS METALLFORMEN GMBH, DE  
[22] 2023-01-09  
[41] 2023-07-11  
[30] EP (22150873.2) 2022-01-11

[21] **3,186,153**  
[13] A1

[51] **Int.Cl. F24F 11/46 (2018.01) F24F 11/70 (2018.01)**

[25] EN  
[54] **AUTOMATIC STAGING OF MULTIPLE HVAC SYSTEMS DURING A PEAK DEMAND RESPONSE**  
[54] **ORGANISATION AUTOMATIQUE DE MULTIPLES SYSTEMES CVC LORS D'UNE REPOSE A UNE DEMANDE DE POINTE**  
[72] BRAHME, ROHINI, US  
[72] XIA, CHAO, US  
[72] HREJSA, PETE, US  
[71] LENNOX INDUSTRIES INC., US  
[22] 2023-01-10  
[41] 2023-07-13  
[30] US (17/575,499) 2022-01-13

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[21] **3,186,154**  
[13] A1

[51] **Int.Cl. A61B 90/50 (2016.01) A61B 90/57 (2016.01) A61B 1/32 (2006.01) A61B 17/02 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR RETRACTOR HOLDER**  
[54] **SYSTEMES ET METHODES POUR UN ECARTEUR ET UN PORTOIR**

[72] ALTAMURA, MICHAEL, US  
[71] ALTAMURA, MICHAEL, US  
[22] 2023-01-09  
[41] 2023-07-10  
[30] US (63/297,930) 2022-01-10  
[30] US (63/302,725) 2022-01-25  
[30] US (18/085,965) 2022-12-21

[21] **3,186,163**  
[13] A1

[25] EN  
[54] **MASKING BRANDS AND BUSINESSES IN CONTENT**  
[54] **CAVIARDAGE DES MARQUES ET DES ENTREPRISES DANS LE CONTENU**

[72] PANCHAKSHARAIHAH, VISHWAS SHARADANAGAR, IN  
[72] GUPTA, VIKRAM MAKAM, IN  
[72] HARB, REDA, IN  
[71] ROVI GUIDES, INC., US  
[22] 2023-01-09  
[41] 2023-07-12  
[30] US (17/574110) 2022-01-12

[21] **3,186,169**  
[13] A1

[25] EN  
[54] **SYSTEMS AND METHODS FOR INTEGRATED CONDITION MONITORING FOR POWER SYSTEM ASSET HEALTH SCORING**  
[54] **SYSTEMES ET METHODES POUR LA SURVEILLANCE DE CONDITION INTEGREE POUR UNE COTATION DE LA SANTE D'UN BIEN DE BLOC D'ALIMENTATION**

[72] PAMULAPARTHY, BALAKRISHNA, IN  
[72] KANABAR, MITALKUMAR, IN  
[72] BYRNE, AUSTIN, IN  
[72] KHAN, UMAR NASEEM, IN  
[71] GENERAL ELECTRIC TECHNOLOGY GMBH, CH  
[22] 2023-01-09  
[41] 2023-07-10  
[30] US (63/298201) 2022-01-10

[21] **3,186,176**  
[13] A1

[51] **Int.Cl. B02C 17/00 (2006.01) B02C 17/18 (2006.01) B02C 17/22 (2006.01)**

[25] EN  
[54] **SYSTEMS, DEVICES AND METHODS FOR IMPROVED EFFICIENCY OF BALL MILLS**  
[54] **SYSTEMES, DISPOSITIFS ET METHODES POUR AMELIORER L'EFFICACITE DES BROyeurs A BOULETS**

[72] CORAY, DALE, US  
[71] FREEPORT MINERALS CORPORATION, US  
[22] 2023-01-12  
[41] 2023-07-13  
[30] US (17/574,971) 2022-01-13

[21] **3,186,179**  
[13] A1

[51] **Int.Cl. B65D 51/18 (2006.01) B65D 43/02 (2006.01)**

[25] EN  
[54] **LID ASSEMBLY FOR BEVERAGE CONTAINER**  
[54] **COUVERCLE POUR RECIPIENT A BREUVAGE**

[72] LANE, MARVIN, US  
[72] OGUNRO, TOBI, US  
[72] BOROSKI, DWAYNE, US  
[71] THERMOS L.L.C., US  
[22] 2023-01-10  
[41] 2023-07-12  
[30] US (63/298,713) 2022-01-12

[21] **3,186,182**  
[13] A1

[51] **Int.Cl. B63C 13/00 (2006.01) B63B 79/10 (2020.01) B63B 79/40 (2020.01) B60P 3/10 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR LOADING A WATERCRAFT ON A TRAILER**  
[54] **SYSTEMES ET METHODES POUR LE CHARGEMENT D'UNE EMBARCATION SUR UNE REMORQUE**

[72] REZAC, RYAN R., US  
[72] SNYDER, KRISTOPHER C., US  
[72] CLARK, JEREMIAH D., US  
[71] NAVICO HOLDING AS, NO  
[22] 2023-01-11  
[41] 2023-07-13  
[30] US (17/574782) 2022-01-13

[21] **3,186,191**  
[13] A1

[51] **Int.Cl. B32B 27/04 (2006.01) B32B 37/06 (2006.01) B32B 37/10 (2006.01)**

[25] EN  
[54] **COMPOSITE PANELS WITH ADHESIVE AND SEPARATE FRAGMENT LAYERS**  
[54] **PANNEAUX COMPOSITES COMPRENANT UN ADHESIF ET DES COUCHES DE FRAGMENTS SEPREES**

[72] WINTEROWD, JACK G., US  
[72] SPENCER, MATT, US  
[72] SUPUT, MARKO, US  
[72] FISHER, KASEY, US  
[72] BRADSHAW, ALLAN, US  
[71] CONTINUUS MATERIALS INTELLECTUAL PROPERTY, LLC, US  
[22] 2023-01-10  
[41] 2023-07-13  
[30] US (17/575,467) 2022-01-13

[21] **3,186,197**  
[13] A1

[51] **Int.Cl. B32B 5/26 (2006.01) A47K 10/16 (2006.01) B32B 5/10 (2006.01) B32B 27/02 (2006.01) B32B 27/16 (2006.01) D21H 19/14 (2006.01) D21H 19/80 (2006.01) D21H 23/70 (2006.01)**

[25] EN  
[54] **LAYERED FIBROUS STRUCTURES**  
[54] **STRUCTURES FIBREUSES EN COUCHES**

[72] MCKEE, MATTHEW GARY, US  
[72] KLAWITTER, TIMOTHY JAMES, US  
[72] THOMAS, PATRICIA CALLANAN, US  
[72] RUEVE, MARK CHARLES, US  
[72] SCHOLLE, ROBERT HOWARD, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[22] 2023-01-11  
[41] 2023-07-13  
[30] US (63/299,130) 2022-01-13

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[21] **3,186,208**  
[13] A1

[25] EN  
[54] **DETERMINATION OF BLOCK VECTOR PREDICTOR CANDIDATE LIST**  
[54] **DETERMINATION D'UNE LISTE DE CANDIDATS PREDICTEURS DE VECTEURS DE BLOC**  
[72] RUIZ COLL, DAMIAN, US  
[72] FILIPPOV, ALEXEY KONSTANTINOVICH, US  
[72] RUFITSKIY, VASILY ALEXEEVICH, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2023-01-10  
[41] 2023-07-10  
[30] US (63/297,957) 2022-01-10

[21] **3,186,271**  
[13] A1

[51] **Int.Cl. A63B 21/072 (2006.01) A63B 21/06 (2006.01) A63B 21/075 (2006.01)**  
[25] EN  
[54] **RETENTION COLLAR FOR A CYLINDRICAL ELEMENT**  
[54] **COL DE RETENUE POUR UN ELEMENT CYLINDRIQUE**  
[72] YOUSFI, ADAM, PL  
[72] KHOOZANI, KAEVON, CA  
[71] BELLS OF STEEL INC., CA  
[22] 2023-01-13  
[41] 2023-07-14  
[30] US (63/266,808) 2022-01-14

[21] **3,186,274**  
[13] A1

[51] **Int.Cl. F25C 3/02 (2006.01)**  
[25] EN  
[54] **REFRIGERATION SYSTEM FOR AN ICE SKATING RINK**  
[54] **SYSTEME DE REFRIGERATION POUR UNE PATINOIRE**  
[72] GASTEL, DYLAN, US  
[71] GASTEL, DYLAN, US  
[22] 2023-01-13  
[41] 2023-07-14  
[30] US (63/299,457) 2022-01-14

[21] **3,186,278**  
[13] A1

[51] **Int.Cl. B65D 21/032 (2006.01)**  
[25] EN  
[54] **TRAYS AND BLANKS THEREFOR**  
[54] **PLATEAUX ET DECOUPES CONNEXES**  
[72] SIMPKINS, KEVIN M., US  
[72] JAMES, JEFFREY S., US  
[71] WESTROCK SHARED SERVICES, LLC, US  
[22] 2023-01-13  
[41] 2023-07-13  
[30] US (63/299,152) 2022-01-13

[21] **3,186,290**  
[13] A1

[51] **Int.Cl. C10B 49/22 (2006.01)**  
[25] FR  
[54] **BIOMASS GASIFICATION PROCESS**  
[54] **PROCEDE DE GAZEIFICATION DE LA BIOMASSE**  
[72] CHATAING, THIERRY, FR  
[72] RATEL, GILLES, FR  
[72] ROBIN, THOMAS, FR  
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR  
[22] 2023-01-12  
[41] 2023-07-14  
[30] FR (FR 2200302) 2022-01-14

[21] **3,186,294**  
[13] A1

[51] **Int.Cl. B66B 5/02 (2006.01) B66B 1/40 (2006.01) B66B 5/00 (2006.01)**  
[25] EN  
[54] **ELEVATOR LEVEL WARNING SYSTEM AND METHODS OF USE THEREOF**  
[54] **SYSTEME D'AVERTISSEMENT DE NIVEAU D'ASCENSEUR ET METHODES D'UTILISATION**  
[72] BARNES, WALTER HEIDT, US  
[72] ROSE, MICHAEL, US  
[72] GOZUKIZIL, FRANK, US  
[71] ELECTRONIC CONTROLS INC., US  
[22] 2023-01-13  
[41] 2023-07-14  
[30] US (63/266,814) 2022-01-14  
[30] US (63/409,366) 2022-09-23

[21] **3,186,338**  
[13] A1

[51] **Int.Cl. B32B 7/06 (2019.01) B28B 17/00 (2006.01) B32B 13/14 (2006.01) B32B 27/04 (2006.01) C08J 5/24 (2006.01) C04B 41/48 (2006.01)**  
[25] EN  
[54] **PEELABLE PROTECTIVE COVER**  
[54] **COUVERCLE DE PROTECTION DECOLLABLE**  
[72] HARRIS, DAVID W., US  
[71] HARRIS, DAVID W., US  
[22] 2023-01-12  
[41] 2023-07-12  
[30] US (17/573,863) 2022-01-12

[21] **3,186,339**  
[13] A1

[25] EN  
[54] **SYSTEMS, METHODS, AND APPARATUSES FOR IMPROVED DOMAIN NAME RESOLUTION**  
[54] **SYSTEMES, METHODES ET APPAREILS POUR UNE RESOLUTION DU NOM DE DOMAINE AMELIOREE**  
[72] LEE, YIU LEUNG, US  
[72] HELFINSTINE, CHARLES A., US  
[72] JACOB, THOMAS MODAYIL, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2023-01-11  
[41] 2023-07-11  
[30] US (17/573,357) 2022-01-11

[21] **3,186,344**  
[13] A1

[51] **Int.Cl. F16B 13/14 (2006.01) E05D 5/10 (2006.01) F16B 13/12 (2006.01)**  
[25] EN  
[54] **SCREW INSERT AND METHOD OF USING THEREOF**  
[54] **INSERT DE BIS ET METHODE D'UTILISATION**  
[72] ALLEN, ROBERT C., US  
[72] NATTA, RACE C., US  
[71] MASONITE CORPORATION, US  
[22] 2023-01-12  
[41] 2023-07-12  
[30] US (63/298686) 2022-01-12

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[21] **3,186,356**  
[13] A1

[51] **Int.Cl. A01K 5/00 (2006.01) B65D 83/06 (2006.01)**  
 [25] EN  
 [54] **APPARATUS FOR DISPENSING PET TREATS**  
 [54] **APPAREIL POUR DISTRIBUER DES GATERIES POUR ANIMAUX**  
 [72] YIM, FELIX, CA  
 [72] YU, HENRY, CA  
 [71] YIM, FELIX, CA  
 [22] 2023-01-11  
 [41] 2023-07-11  
 [30] US (63/298,377) 2022-01-11

[21] **3,186,361**  
[13] A1

[51] **Int.Cl. B60P 3/16 (2006.01) B60L 1/00 (2006.01)**  
 [25] EN  
 [54] **MIXER APU IMPROVEMENTS**  
 [54] **AMELIORATIONS D'UNITE DE PUISSANCE AUXILIAIRE DE MELANGEUR**  
 [72] DATEMA, BRYAN S., US  
 [72] GLUNZ, CLINT D., US  
 [72] VARAO, ROBERT, US  
 [72] HOU, YANMING, US  
 [72] WEI, ZHENYI, US  
 [72] GONG, XIANG, US  
 [72] HOEFKER, JARUD, US  
 [72] HOLST, JACOB, US  
 [72] SCOTT, BRIAN, US  
 [72] PUGH, CHRIS, US  
 [72] TESMER, TED, US  
 [71] OSHKOSH CORPORATION, US  
 [22] 2023-01-12  
 [41] 2023-07-14  
 [30] US (63/299,456) 2022-01-14  
 [30] US (63/435,401) 2022-12-27  
 [30] US (63/436,513) 2022-12-31  
 [30] US (63/437,263) 2023-01-05  
 [30] US (18/095,319) 2023-01-10

[21] **3,186,363**  
[13] A1

[51] **Int.Cl. C10B 49/22 (2006.01) B01J 8/24 (2006.01)**  
 [25] EN  
 [54] **CIRCULATION CONTROL IN DUAL BED GASIFIERS**  
 [54] **CONTROLE DE LA CIRCULATION DANS LES GAZOGENES A DEUX LITS**  
 [72] LI, YONG HUA, CA  
 [72] WANG, WEI, CA  
 [72] WATKINSON, ALAN PAUL, CA  
 [71] Highbury Energy Inc., CA  
 [22] 2023-01-12  
 [41] 2023-07-12  
 [30] US (63/298,990) 2022-01-12

[21] **3,186,371**  
[13] A1

[51] **Int.Cl. E06B 9/56 (2006.01)**  
 [25] EN  
 [54] **WINDOW TREATMENT CHAIN OR CORD PROTECTOR**  
 [54] **PROTECTEUR DE CHAÎNE OU DE CORDON DE COUVERTURE DE FENÊTRE**  
 [72] BARKUN, TED, CA  
 [71] 1067375 ONTARIO INC., CA  
 [22] 2023-01-13  
 [41] 2023-07-13  
 [30] US (63/299072) 2022-01-13

[21] **3,186,405**  
[13] A1

[51] **Int.Cl. A61K 47/18 (2017.01) A61K 9/08 (2006.01) A61K 31/4045 (2006.01) A61K 31/405 (2006.01) A61K 31/675 (2006.01) A61K 36/06 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/26 (2006.01)**  
 [25] EN  
 [54] **DEEP EUTECTIC SOLVENT INCLUDING ONE OR MORE ACTIVE PHARMACEUTICAL INGREDIENTS DERIVED FROM MUSHROOMS**  
 [54] **SOLVANT EUTECTIQUE PROFOND COMPRENANT UN OU PLUSIEURS INGREDIENTS PHARMACEUTIQUES ACTIFS DERIVES DE CHAMPIGNONS**  
 [72] KIRKLAND, JUSTIN, US  
 [71] OPTIMI HEALTH CORP., CA  
 [22] 2023-01-13  
 [41] 2023-07-14  
 [30] US (62/299,750) 2022-01-14

[21] **3,186,434**  
[13] A1

[51] **Int.Cl. A47L 9/28 (2006.01) A47L 9/00 (2006.01) A47L 11/40 (2006.01)**  
 [25] EN  
 [54] **SURFACE CLEANING APPARATUS WITH USER INTERFACE**  
 [54] **APPAREIL DE NETTOYAGE DE SURFACE AVEC UNE INTERFACE UTILISATEUR**  
 [72] BLOEMENDAAL, COLIN J., US  
 [72] RESCH, JACOB, US  
 [72] HOFFMANN, JEREMY W., US  
 [72] JOHNSON, STEVE M., US  
 [72] DEJONGE, MITCHELL J., US  
 [72] BUSKEN-JOVANOVICH, ISAAC, US  
 [72] DEBECK, TYLER L., US  
 [72] MILLER, DAVID M., US  
 [72] CHUNG, SANG HOON, US  
 [71] BISSELL INC., US  
 [22] 2023-01-13  
 [41] 2023-07-14  
 [30] US (63/299,438) 2022-01-14

[21] **3,186,437**  
[13] A1

[51] **Int.Cl. A47G 9/02 (2006.01)**  
 [25] EN  
 [54] **DUVET**  
 [54] **DUVET**  
 [72] PETTIT, JANA E LOIS, US  
 [72] AH LOO, ARTHUR MCCONKIE, US  
 [71] PURPLE INNOVATION, LLC, US  
 [22] 2023-01-16  
 [41] 2023-07-14  
 [30] US (63/299,671) 2022-01-14

[21] **3,186,438**  
[13] A1

[51] **Int.Cl. G06T 17/00 (2006.01)**  
 [25] EN  
 [54] **SYSTEMS AND METHODS FOR ANALYZING CLUSTERS OF TYPE CURVE REGIONS AS A FUNCTION OF POSITION IN A SUBSURFACE VOLUME OF INTEREST**  
 [54] **SYSTEMES ET METHODES D'ANALYSE DE GRAPPES DES REGIONS DE COURBE TYPES COMME FONCTION D'UNE POSITION DANS UN VOLUME DE SUBSURFACE D'INTERET**  
 [72] PROCHNOW, SHANE JAMES, US  
 [71] CHEVRON U.S.A., INC., US  
 [22] 2023-01-13  
 [41] 2023-07-14  
 [30] US (63/299,598) 2022-01-14

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[21] **3,186,441**  
[13] A1

[51] **Int.Cl. G16H 40/20 (2018.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **INTELLIGENT MATCHING OF PATIENTS WITH CARE WORKERS**  
[54] **CORRESPONDANCE INTELLIGENTE DE PATIENTS AVEC DES TRAVAILLEURS DE LA SANTE**  
[72] LITTLE, CHEN, CA  
[72] SANDHU, AMANDEEP, CA  
[71] A2B DIRECTCARE INC., CA  
[22] 2023-01-12  
[41] 2023-07-12  
[30] US (63/298,662) 2022-01-12

[21] **3,186,447**  
[13] A1

[51] **Int.Cl. C25B 15/08 (2006.01) C25B 1/042 (2021.01) C25B 9/70 (2021.01) C25B 15/02 (2021.01)**  
[25] EN  
[54] **STEAM RECYCLE CONTROL**  
[54] **COMMANDE DE RECYCLAGE DE VAPEUR**  
[72] SAEEDMANESH, ALIREZA, US  
[72] RAOUFAT, EHSAN, US  
[72] ZARGARI, ALI, US  
[72] LUNA, JULIO, US  
[71] BLOOM ENERGY CORPORATION, US  
[22] 2023-01-16  
[41] 2023-07-14  
[30] US (63/299,887) 2022-01-14  
[30] US (63/299,891) 2022-01-14  
[30] US (63/299,895) 2022-01-14

[21] **3,186,489**  
[13] A1

[51] **Int.Cl. C25B 1/042 (2021.01) H01M 8/04119 (2016.01) H01M 8/1246 (2016.01) H01M 8/2432 (2016.01) C25B 9/70 (2021.01) C25B 13/07 (2021.01) C25B 15/08 (2006.01) C01B 3/02 (2006.01)**  
[25] EN  
[54] **CONTROL OF THE SOLID OXIDE ELECTROLYZER**  
[54] **COMMANDE D'ELECTROLYSEUR A OXYDE SOLIDE**  
[72] ZARGARI, ALI, US  
[72] RAOUFAT, EHSAN, US  
[72] LUNA, JULIO, US  
[72] SAEEDMANESH, ALIREZA, US  
[71] BLOOM ENERGY CORPORATION, US  
[22] 2023-01-16  
[41] 2023-07-14  
[30] US (63/299,890) 2022-01-14  
[30] US (63/299,894) 2022-01-14

[21] **3,186,798**  
[13] A1

[51] **Int.Cl. E04F 13/21 (2006.01) E04B 1/38 (2006.01) E04B 2/90 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR COUPLING PREFABRICATED PANELS TO STRUCTURES**  
[54] **SYSTEMES ET METHODES POUR L'ACCOUPLLEMENT DE PANNEAUX PREFABRIQUES A DES STRUCTURES**  
[72] DOMBOWSKY, BRADEN LOUIS, CA  
[72] WILSON, JAMES I., CA  
[72] BARKWAY, GRAEME G., CA  
[71] NEXII BUILDING SOLUTIONS INC., CA  
[22] 2023-01-11  
[41] 2023-07-12  
[30] US (63/298933) 2022-01-12

[21] **3,186,925**  
[13] A1

[51] **Int.Cl. E04F 11/104 (2006.01)**  
[25] EN  
[54] **TEMPORARY STAIR TREADS**  
[54] **PLANS DE MARCHE TEMPORAIRES**  
[72] GARDNER, WILLIAM, US  
[71] GARDNER, WILLIAM, US  
[22] 2023-01-11  
[41] 2023-07-14  
[30] US (18/145405) 2022-12-22  
[30] US (63/299757) 2022-01-14

[21] **3,186,930**  
[13] A1

[51] **Int.Cl. E02D 31/10 (2006.01) E02D 35/00 (2006.01)**  
[25] EN  
[54] **RETAINER MEMBER FOR A BRACE SYSTEM AND METHOD OF FORMING**  
[54] **ELEMENT DE RETENUE POUR UN SYSTEME DE SUPPORT ET METHODE DE FORMATION**  
[72] GANTT, WILLIAM A., US  
[71] INDEPENDENCE MATERIALS GROUP, LLC, US  
[22] 2023-01-12  
[41] 2023-07-14  
[30] US (17/576,069) 2022-01-14

[21] **3,192,121**  
[13] A1

[51] **Int.Cl. G09B 9/08 (2006.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **ADAPTIVE LEARNING IN A DIVERSE LEARNING ECOSYSTEM**  
[54] **APPRENTISSAGE ADAPTATIF DANS UN ECOSYSTEME D'APPRENTISSAGE DIVERSIFIE**  
[72] DELISLE, JEAN-FRANCOIS, CA  
[72] QI, JIAN, CA  
[71] CAE INC., CA  
[22] 2023-03-07  
[41] 2023-07-13  
[30] US (63/317,211) 2022-03-07

[21] **3,197,670**  
[13] A1

[51] **Int.Cl. H05H 1/28 (2006.01) H05H 1/34 (2006.01)**  
[25] EN  
[54] **DIRECT-CURRENT PLASMA TORCH APPARATUS**  
[54] **APPAREIL DE TORCHE PLASMA A COURANT CONTINU**  
[72] GABER, HOSSAM, CA  
[72] ALDEEB, MUSTAFA ABDALMEJEED MANSOUR, CA  
[71] HANDA, JANAK H., CA  
[71] GABER, HOSSAM, CA  
[22] 2023-04-21  
[41] 2023-07-13  
[30] US (17/660402) 2022-04-23

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**9 juillet 2023 au 15 juillet 2023**

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[21] **3,198,496**

[13] A1

[51] **Int.Cl. F16L 59/147 (2006.01) E21B  
36/00 (2006.01) F16L 59/18 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEM AND  
METHOD FOR INSULATED  
CONDUCTING OF FLUIDS**

[54] **APPAREIL, SYSTEME ET  
METHODE POUR LE  
TRANSPORT ISOLE DE FLUIDES**

[72] DING, YUCHANG, CA

[72] HUGHES, JOHN, CA

[71] PMC PUMPS INC., CA

[22] 2023-05-02

[41] 2023-07-11

[30] US (63/407,116) 2022-09-15

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[21] **3,198,612**

[13] A1

[51] **Int.Cl. F24D 13/00 (2006.01) F24C  
1/08 (2006.01) F24C 7/06 (2006.01)  
H05B 3/56 (2006.01)**

[25] EN

[54] **ELECTRIC FIREPLACE WITH  
HEAT RADIATING, FAUX  
MATERIALS**

[54] **FOYER ELECTRIQUE AVEC  
MATERIAU SYNTHETIQUE A  
RAYONNEMENT THERMIQUE**

[72] WARDROP, WALTER, CA

[72] BARBER, NICHOLAS, CA

[71] HYBRID ENERGIES ALTERNATIVE  
TECHNOLOGIES INC., CA

[22] 2023-05-04

[41] 2023-07-12

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[21] **3,165,707**  
[13] A1

[51] **Int.Cl. C07C 29/78 (2006.01) C01B 3/34 (2006.01) C07C 29/92 (2006.01) C07C 31/04 (2006.01)**

[25] EN

[54] **METHANOL PRODUCTION METHOD**

[54] **PROCEDE DE PRODUCTION DE METHANOL**

[72] FEINSTEIN, JONATHAN JAY, US

[71] ZONEFLOW REACTOR TECHNOLOGIES, LLC, US

[85] 2022-07-21

[86] 2021-01-22 (PCT/US2021/014691)

[87] (WO2021/150942)

[30] US (62/965,637) 2020-01-24

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[21] **3,194,652**  
[13] A1

[51] **Int.Cl. C07K 14/165 (2006.01) A61K 31/713 (2006.01) A61K 35/76 (2015.01) A61K 38/16 (2006.01) A61K 39/215 (2006.01) A61P 31/14 (2006.01) C12N 15/50 (2006.01) C12N 15/63 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **VACCINES AND COMPOSITIONS BASED ON SARS-COV-2 S PROTEIN**

[54] **VACCINS ET COMPOSITIONS AXES SUR LA PROTEINE DU SRAS-COV-2**

[72] ZHANG, BILL BILIAN, CN

[72] MA, LIN, CN

[72] WEN, JIAN, CN

[72] ZHANG, HONG, CN

[72] ZHONG, HUILING, CN

[71] GUANGZHOU RIBOBIO CO., LTD., CN

[71] ARGORNA PHARMACEUTICALS CO., LTD., CN

[85] 2023-03-29

[86] 2022-05-10 (PCT/CN2022/091986)

[87] (3194652)

[30] CN (202210019169.6) 2022-01-10

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[21] **3,196,911**  
[13] A1

[51] **Int.Cl. A61K 31/465 (2006.01) A24B 15/16 (2020.01) A61K 9/00 (2006.01) A61K 47/04 (2006.01) A61K 47/36 (2006.01) A61K 47/44 (2017.01) A61P 25/34 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR SUBLINGUAL DELIVERY OF NICOTINE**

[54] **COMPOSITIONS ET METHODES POUR L'ADMINISTRATION SUBLINGUALE DE NICOTINE**

[72] DOCHERTY, JOHN, CA

[72] BUNKA, CHRISTOPHER ANDREW, CA

[71] POVIVA CORP., US

[85] 2023-04-27

[86] 2023-03-20 (PCT/US2023/015627)

[87] (3196911)

[30] US (17/700,628) 2022-03-22

[30] US (17/700,646) 2022-03-22

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[21] **3,200,615**  
[13] A1

[51] **Int.Cl. A01N 63/27 (2020.01) A01H 6/28 (2018.01)**

[25] EN

[54] **BIOPROTECTANT ENDOPHYTES OF CANNABIS**

[54] **ENDOPHYTES BIOPROTECTEURS DU CANNABIS**

[72] EKANAYAKE, PIYUMI NIROSHINI, AU

[72] DE SILVA, DILANI, AU

[72] KAUR, JATINDER, AU

[72] LI, TONGDA, AU

[72] MANN, ROSS, AU

[72] SAWBRIDGE, TIMOTHY IVOR, AU

[72] SPANGENBERG, GERMAN CARLOS, AU

[71] AGRICULTURE VICTORIA SERVICES PTY LTD, AU

[85] 2023-05-30

[86] 2021-12-09 (PCT/AU2021/051471)

[87] (WO2022/120429)

[30] AU (2020904592) 2020-12-10

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[21] **3,201,066**  
[13] A1

[51] **Int.Cl. G06F 3/0481 (2022.01) G06T 19/20 (2011.01) G06T 15/20 (2011.01)**

[25] EN

[54] **COLLABORATIVE AUGMENTED REALITY MEASUREMENT SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE MESURE COLLABORATIVE DE REALITE AUGMENTEE**

[72] DEARTH, JARED, US

[72] CUNNINGHAM, ZACHARY, US

[72] SMITH, BRADLEY, US

[72] VETH, BUNNA, US

[72] DE VOGT, DOUG, US

[71] XACTWARE SOLUTIONS, INC., US

[85] 2023-06-02

[86] 2021-12-03 (PCT/US2021/061753)

[87] (WO2022/120135)

[30] US (63/121,156) 2020-12-03

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[21] **3,201,364**  
[13] A1

[51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/30 (2016.01) A23L 29/30 (2016.01)**

[25] EN

[54] **SWEETENER FORMULATIONS**

[54] **FORMULATIONS D'EDULCORANT**

[72] TSIVION, DAVID, IL

[72] BITAN, LIRON, IL

[72] LAHAV, NAAMA, IL

[72] TRACHTENBERG, ALEXANDER, IL

[72] FATTAL, MORAN, IL

[71] DOUXMATOK LTD., IL

[85] 2023-06-06

[86] 2022-01-05 (PCT/IB2022/050065)

[87] (WO2022/149072)

[30] US (63/133,810) 2021-01-05



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[13] A1

[51] **Int.Cl. G11C 13/04 (2006.01) G06N 10/40 (2022.01) G02B 6/10 (2006.01) G02B 6/12 (2006.01)**

[25] EN

[54] **A FIBRE OPTIC INTEGRATED QUANTUM MEMORY FOR LIGHT**

[54] **MEMOIRE QUANTIQUE POUR LUMIERE, INTEGREE A DE LA FIBRE OPTIQUE**

[72] BUSTARD, PHILIP J., CA  
[72] ENGLAND, DUNCAN G., CA  
[72] SUSSMAN, BENJAMIN J., CA  
[72] MIHAILOV, STEPHEN, CA  
[72] HNATOVSKY, CYRIL, CA  
[72] GROBNIC, DAN, CA  
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA  
[85] 2023-06-06  
[86] 2021-12-07 (PCT/CA2021/051757)  
[87] (WO2022/120477)  
[30] US (63/122,209) 2020-12-07

[21] **3,201,379**  
[13] A1

[51] **Int.Cl. C07C 227/18 (2006.01) C07C 229/64 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING 2-HYDROXY-5-[2-(4-(TRIFLUOROMETHYLPHENYL)ETHYLAMINO)]BENZOIC ACID**

[54] **PROCEDE DE PREPARATION D'ACIDE 2-HYDROXY-5-[2-(4-(TRIFLUOROMETHYLPHENYL)ETHYLAMINO)]BENZOIQUE**

[72] XU, XINLIANG, CN  
[72] ZHUANG, CHENGHAN, CN  
[72] WANG, LEI, CN  
[72] LU, XIN, CN  
[72] ZHANG, BO, CN  
[72] GWAG, BYOUNG JOO, KR  
[72] AHN, CHUN SAN, KR  
[72] JIN, JING YU, KR  
[71] GNT PHARMA CO., LTD., KR  
[85] 2023-06-06  
[86] 2021-12-06 (PCT/CN2021/135804)  
[87] (WO2022/121853)  
[30] CN (202011445339.4) 2020-12-08

[21] **3,201,380**  
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01)**

[25] EN

[54] **PROCESS FOR MAKING AN ELECTRODE ACTIVE MATERIAL**

[54] **PROCEDE DE PRODUCTION D'UN MATERIAU ACTIF D'ELECTRODE**

[72] BERGNER, BENJAMIN JOHANNES HERBERT, DE  
[72] HARTMANN, PASCAL, DE  
[71] BASF SE, DE  
[85] 2023-06-06  
[86] 2021-11-29 (PCT/EP2021/083359)  
[87] (WO2022/122448)  
[30] EP (20212552.2) 2020-12-08

[21] **3,201,383**  
[13] A1

[51] **Int.Cl. H01S 3/13 (2006.01) H04B 10/25 (2013.01) H01S 5/06 (2006.01) H03L 1/00 (2006.01)**

[25] EN

[54] **WIDEBAND PHOTONIC SYNTHESIZER STABILIZED TO A REFERENCE CLOCK USING PHOTONIC COMPONENTS**

[54] **SYNTHETISEUR PHOTONIQUE A LARGE BANDE STABILISE SUR UNE HORLOGE DE REFERENCE A L'AIDE DE COMPOSANTS PHOTONIQUES**

[72] EL AMILI, ABDELKRIM, US  
[72] ELIYAHU, DANNY, US  
[72] MALEKI, LUTE, US  
[71] OEWAVES, INC., US  
[85] 2023-06-06  
[86] 2021-12-01 (PCT/US2021/061368)  
[87] (WO2022/125352)  
[30] US (63/123,887) 2020-12-10  
[30] US (17/538,499) 2021-11-30

[21] **3,201,389**  
[13] A1

[51] **Int.Cl. F16L 17/10 (2006.01) F16L 21/04 (2006.01) F16L 37/092 (2006.01)**

[25] EN

[54] **SEALING ARRANGEMENT AND CONNECTION SLEEVE**

[54] **ENSEMBLE D'ETANCHEITE ET MANCHON D'ASSEMBLAGE**

[72] WUST, THEODOR, CH  
[71] SWISS TECH INNOVATION\_AG, CH  
[85] 2023-06-06  
[86] 2021-12-23 (PCT/EP2021/087488)  
[87] (WO2022/148671)  
[30] CH (00007/21) 2021-01-06

[21] **3,201,396**  
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**

[25] EN

[54] **SINGLE SERVE CAPSULE FOR PREPARING A BEVERAGE IN A BEVERAGE PREPARATION MACHINE, AND METHOD FOR PRODUCING A SINGLE SERVE CAPSULE**

[54] **CAPSULE-DOSETTE POUR PREPARER UNE BOISSON DANS UNE MACHINE DE PREPARATION DE BOISSON ET PROCEDE POUR PRODUIRE UNE CAPSULE-DOSETTE**

[72] KRUGER, MARC, DE  
[72] EMPL, GUNTER, DE  
[71] GCS GERMAN CAPSULE SOLUTION GMBH, DE  
[85] 2023-06-06  
[86] 2021-12-07 (PCT/EP2021/084550)  
[87] (WO2022/122718)  
[30] DE (10 2020 215 443.0) 2020-12-07

[21] **3,201,535**  
[13] A1

[51] **Int.Cl. C09D 11/54 (2014.01) C09D 11/322 (2014.01) C09D 11/38 (2014.01) C09D 11/40 (2014.01)**

[25] EN

[54] **PRE-TREATMENT LIQUID FOR USE IN INK JET PRINTING**

[54] **LIQUIDE DE PRETRAITEMENT DESTINE A ETRE UTILISE DANS L'IMPRESSION A JET D'ENCRE**

[72] WILLEMS, GUIDO G., NL  
[72] SCHELL, JEROEN A., NL  
[71] CANON PRODUCTION PRINTING HOLDING B.V., NL  
[85] 2023-06-07  
[86] 2021-12-06 (PCT/EP2021/084413)  
[87] (WO2022/128573)  
[30] EP (20213863.2) 2020-12-14

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[21] **3,201,537**  
[13] A1

[51] **Int.Cl. B01L 3/02 (2006.01)**  
[25] EN  
[54] **ADAPTER FOR MOUNTING CONDUCTIVE PIPETTE, SAMPLE TUBE OPENING/CLOSING DEVICE, AND AUTOMATIC SAMPLE ANALYSIS SYSTEM**  
[54] **ADAPTATEUR POUR MONTER UNE PIPETTE CONDUCTRICE, DISPOSITIF D'OUVERTURE/FERMETURE DE TUBES D'ECHANTILLON, ET SYSTEME D'ANALYSE AUTOMATIQUE D'ECHANTILLONS**  
[72] PARK, HAN OH, KR  
[72] PARK, HANEE, KR  
[72] KIM, JONG KAB, KR  
[72] IM, DAE SEONG, KR  
[72] KWON, EUN YEONG, KR  
[71] BIONEER CORPORATION, KR  
[85] 2023-06-07  
[86] 2021-12-07 (PCT/KR2021/018433)  
[87] (WO2022/124753)  
[30] KR (10-2020-0169361) 2020-12-07

[21] **3,201,538**  
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01) A61M 1/00 (2006.01)**  
[25] EN  
[54] **AUTOMATIC INFUSION VALVE**  
[54] **SOUPE AUTOMATIQUE DE PERFUSION**  
[72] MADDEN, SEAN CHRISTOPHER, US  
[72] PARTHASARATHY, PARISHRAM, US  
[71] ALCON INC., CH  
[85] 2023-06-07  
[86] 2021-12-14 (PCT/IB2021/061722)  
[87] (WO2022/130213)  
[30] US (63/126,675) 2020-12-17

[21] **3,201,539**  
[13] A1

[51] **Int.Cl. A61K 38/26 (2006.01) A61K 47/64 (2017.01) A61P 3/04 (2006.01) A61P 3/08 (2006.01) A61P 3/10 (2006.01)**  
[25] EN  
[54] **THERAPEUTIC REGIMENS AND METHODS FOR LOWERING BLOOD GLUCOSE AND OR BODY WEIGHT USING GLP-1R AND GCGR BALANCED AGONISTS**  
[54] **REGIMES THERAPEUTIQUES ET METHODES POUR FAIRE BAISSER LA GLYCEMIE ET/OU LE POIDS CORPOREL A L'AIDE D'ANTAGONISTES EQUILIBRES DU RECEPTEUR DU PEPTIDE-1 DE TYPE GLUCAGON ET DU RECEPTEUR DU GLUCAGO**  
[72] KRISHNAN, VYJAYANTHI, US  
[72] JAMES, JOYCE, US  
[72] OLHAYE, OMAR, US  
[72] HARRIS, MATTHEW SCOTT, US  
[71] SPITFIRE PHARMA LLC, US  
[85] 2023-06-07  
[86] 2021-12-07 (PCT/US2021/062286)  
[87] (WO2022/125598)  
[30] US (63/122,117) 2020-12-07  
[30] US (63/211,157) 2021-06-16  
[30] US (63/249,468) 2021-09-28

[21] **3,201,541**  
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01)**  
[25] EN  
[54] **INTRAOCULAR LENS WITH ROTATIONAL RESISTANCE AND NEGATIVE DYSPHOTOPSIA MITIGATION**  
[54] **LENTILLE INTRAOCULAIRE AVEC RESISTANCE A LA ROTATION ET ATTENUATION DE LA DYSPHOTOPSIE NEGATIVE**  
[72] DAS, KAMAL K., US  
[72] SCOTT, JAMES M., US  
[71] ALCON INC., CH  
[85] 2023-06-07  
[86] 2021-12-10 (PCT/IB2021/061539)  
[87] (WO2022/130141)  
[30] US (63/126,760) 2020-12-17

[21] **3,201,544**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/44 (2006.01)**  
[25] FR  
[54] **DEVICE FOR DETECTING A PRESSURE, SUITABLE FOR COOPERATING WITH THE HAND OR AN OBSTETRICAL INSTRUMENT, IN PARTICULAR A CEPHALIC SPOON ? ASSOCIATED OBSTETRICAL INSTRUMENT, GLOVE AND ASSISTANCE DEVIC**  
[54] **DISPOSITIF PERMETTANT LA DETECTION D'UNE PRESSION, APTA A COOPERER AVEC LA MAIN OU UN INSTRUMENT OBSTETRICAL NOTAMMENT UNE CUILLERE CEPHALIQUE ? INSTRUMENT OBSTETRICAL, GANT ET DISPOSITIF D'ASSISTANCE ASSOCIE**  
[72] DE JONCKHEERE, JULIEN, FR  
[72] MAYEUR, OLIVIER, FR  
[72] GAULTIER, FRANCK, FR  
[72] COSSON, MICHEL, FR  
[72] RUBOD, CHRISTELLE, FR  
[71] UNIVERSITE DE LILLE, FR  
[71] CENTRE LILLE INSTITUT, FR  
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE LILLE, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR  
[85] 2023-06-07  
[86] 2021-12-06 (PCT/FR2021/052219)  
[87] (WO2022/123164)  
[30] FR (FR2012845) 2020-12-08

[21] **3,201,545**  
[13] A1

[51] **Int.Cl. H02K 1/22 (2006.01) H02K 1/24 (2006.01) H02K 1/32 (2006.01)**  
[25] EN  
[54] **ROTOR RIM FOR AN ELECTRIC MACHINE**  
[54] **REBORD DE ROTOR POUR MACHINE ELECTRIQUE**  
[72] STEEGMAIER, JONAS, DE  
[72] LUDWIG, DANIEL, DE  
[71] VOITH PATENT GMBH, DE  
[85] 2023-06-07  
[86] 2021-09-30 (PCT/EP2021/076946)  
[87] (WO2022/128192)  
[30] DE (10 2020 133 287.4) 2020-12-14

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[21] <b>3,201,548</b> [13] A1	[21] <b>3,201,554</b> [13] A1	[21] <b>3,201,558</b> [13] A1
<p>[51] <b>Int.Cl. B61K 9/08 (2006.01) E01B 35/08 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>TRACK CONDITION MONITORING DEVICE, TRACK CONDITION MONITORING SYSTEM AND TRACK CONDITION MONITORING METHOD</b></p> <p>[54] <b>DISPOSITIF DE SURVEILLANCE D'ETAT DE VOIE, SYSTEME DE SURVEILLANCE D'ETAT DE VOIE ET PROCEDE DE SURVEILLANCE D'ETAT DE VOIE</b></p> <p>[72] OISHI, KENTARO, JP</p> <p>[72] NISHIO, YUSUKE, JP</p> <p>[71] KAWASAKI RAILCAR MANUFACTURING CO., LTD., JP</p> <p>[85] 2023-06-07</p> <p>[86] 2020-12-15 (PCT/JP2020/046796)</p> <p>[87] (WO2022/130510)</p>	<p>[51] <b>Int.Cl. A24F 40/90 (2020.01) A24F 40/10 (2020.01) A24F 40/20 (2020.01) A24F 40/30 (2020.01) A24F 40/40 (2020.01) A24F 40/42 (2020.01)</b></p> <p>[25] EN</p> <p>[54] <b>AEROSOL PROVISION SYSTEM WITH INTEGRATED CHARGER</b></p> <p>[54] <b>SYSTEME DE FOURNITURE D'AEROSOL A CHARGEUR INTEGRE</b></p> <p>[72] HUBBARD, SAWYER, US</p> <p>[72] SHORT, JASON, US</p> <p>[72] MCMAHAN, CASSIDY, US</p> <p>[72] HEJAZI, VAHID, US</p> <p>[72] WOOD, JASON L., US</p> <p>[71] RAI STRATEGIC HOLDINGS INC, US</p> <p>[85] 2023-06-07</p> <p>[86] 2021-12-06 (PCT/IB2021/061378)</p> <p>[87] (WO2022/123430)</p> <p>[30] US (17/113,679) 2020-12-07</p>	<p>[51] <b>Int.Cl. H01L 31/115 (2006.01)</b></p> <p>[25] FR</p> <p>[54] <b>PARTICLE DETECTOR COMPRISING A POROUS REGION MADE OF A SEMI-CONDUCTOR MATERIAL, AND ASSOCIATED MANUFACTURING METHOD</b></p> <p>[54] <b>DETECTEUR DE PARTICULES COMPRENANT UNE REGION POREUSE REALISEE DANS UN MATERIAU SEMI-CONDUCTEUR ET PROCEDE DE FABRICATION ASSOCIE</b></p> <p>[72] GAUTIER, GAEL, FR</p> <p>[72] VERVISCH, WILFRIED, FR</p> <p>[72] VALENTE, DAMIEN, FR</p> <p>[71] UNIVERSITE D'AIX MARSEILLE, FR</p> <p>[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR</p> <p>[71] UNIVERSITE DE TOURS, FR</p> <p>[71] INSA CENTRE VAL DE LOIRE, FR</p> <p>[85] 2023-06-07</p> <p>[86] 2021-12-22 (PCT/EP2021/087231)</p> <p>[87] (WO2022/136516)</p> <p>[30] FR (FR2014090) 2020-12-23</p>
[21] <b>3,201,553</b> [13] A1	[21] <b>3,201,557</b> [13] A1	[21] <b>3,201,559</b> [13] A1
<p>[51] <b>Int.Cl. A61K 31/7105 (2006.01) A61K 47/60 (2017.01) A61K 31/711 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61K 48/00 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 11/08 (2006.01) A61P 21/00 (2006.01) A61P 25/14 (2006.01) A61P 25/28 (2006.01) A61P 43/00 (2006.01) C07H 21/02 (2006.01) C07H 21/04 (2006.01) C12N 9/78 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>STABLE TARGET-EDITING GUIDE RNA TO WHICH CHEMICALLY MODIFIED NUCLEIC ACID IS INTRODUCED</b></p> <p>[54] <b>ARN GUIDE STABLE D'EDITION CIBLE DANS LEQUEL UN ACIDE NUCLEIQUE CHIMIQUEMENT MODIFIE A ETE INTRODUIT</b></p> <p>[72] FUKUDA, MASATORA, JP</p> <p>[72] KOIZUMI, MAKOTO, JP</p> <p>[72] IWASHITA, SHINZO, JP</p> <p>[71] FUKUOKA UNIVERSITY, JP</p> <p>[71] DAIICHI SANKYO COMPANY, LIMITED, JP</p> <p>[85] 2023-06-07</p> <p>[86] 2021-12-08 (PCT/JP2021/045184)</p> <p>[87] (WO2022/124345)</p> <p>[30] JP (2020-203658) 2020-12-08</p> <p>[30] JP (2021-157151) 2021-09-27</p>	<p>[51] <b>Int.Cl. G06N 3/08 (2023.01)</b></p> <p>[25] EN</p> <p>[54] <b>SYSTEM AND METHOD FOR DETECTING MISCLASSIFICATION ERRORS IN NEURAL NETWORKS CLASSIFIERS</b></p> <p>[54] <b>SYSTEME ET PROCEDE DE DETECTION D'ERREURS DE MAUVAISE CLASSIFICATION DANS DES CLASSIFICATEURS DE RESEAUX NEURONAUX</b></p> <p>[72] QIU, XIN, CN</p> <p>[72] MIKKULAINEN, RISTO, US</p> <p>[71] COGNIZANT TECHNOLOGY SOLUTIONS U.S. CORPORATION, US</p> <p>[85] 2023-06-07</p> <p>[86] 2021-12-08 (PCT/US2021/062332)</p> <p>[87] (WO2022/125617)</p> <p>[30] US (63/123,643) 2020-12-10</p>	<p>[51] <b>Int.Cl. B01J 38/02 (2006.01) B01J 23/882 (2006.01) B01J 23/883 (2006.01) B01J 23/887 (2006.01) B01J 23/94 (2006.01) B01J 35/02 (2006.01) B01J 38/24 (2006.01) F27B 9/14 (2006.01)</b></p> <p>[25] FR</p> <p>[54] <b>COMPLETE CATALYST ROASTING OR REGENERATING METHOD</b></p> <p>[54] <b>PROCEDE COMPLET DE GRILLAGE OU DE REGENERATION DE CATALYSEURS</b></p> <p>[72] DUFOUR, JEAN-PIERRE, FR</p> <p>[71] ERASTEEL, FR</p> <p>[85] 2023-06-07</p> <p>[86] 2021-12-16 (PCT/EP2021/086124)</p> <p>[87] (WO2022/129298)</p> <p>[30] FR (FR2013719) 2020-12-18</p>

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[21] **3,201,560**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 47/66 (2017.01) A61K 38/08 (2019.01) C07K 7/06 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **HALF-LIFE EXTENDING COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS ET PROCEDES D'EXTENSION DE DEMI-VIE**

[72] CAMPBELL, DAVID, US

[72] DIRAIMONDO, THOMAS R., US

[72] BHATT, RAMESH, US

[71] JANUX THERAPEUTICS, INC., US

[85] 2023-06-07

[86] 2021-12-07 (PCT/US2021/062238)

[87] (WO2022/125566)

[30] US (63/122,818) 2020-12-08

[21] **3,201,561**  
[13] A1

[51] **Int.Cl. B63B 27/24 (2006.01) E21B 19/00 (2006.01) E21B 43/01 (2006.01) F16L 37/124 (2006.01)**

[25] EN

[54] **ADAPTER TOOL FOR COUPLING A BEND STIFFENER WITH DIVERLESS BELL MOUTH INTERFACE (DLBM) INTO A BSN900E BELL MOUTH AND ASSEMBLY METHOD**

[54] **OUTIL ADAPTATEUR POUR ACCOUPLEMENT D'UN RAIDISSEUR DE COURBURE AVEC INTERFACE POUR PIECE D'EMBOUCHURE EVASEE « DIVERLESS » (PSDL) DANS UNE PIECE D'EMBOUCHURE EVASEE BSN900E ET PROCEDE DE MONTAG**

[72] BARROSO DE MELLO, FLAVIO, BR

[72] GASPARETTO, VINICIUS, BR

[72] PINHO DOS REIS, BRUNO, BR

[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR

[85] 2023-06-07

[86] 2021-11-23 (PCT/BR2021/050513)

[87] (WO2022/120446)

[30] BR (BR 10 2020 025456 1) 2020-12-11

[21] **3,201,562**  
[13] A1

[51] **Int.Cl. E21B 21/06 (2006.01) E21B 31/03 (2006.01) E21B 47/04 (2012.01) E21B 47/12 (2012.01) E21B 49/00 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND APPARATUSES FOR IDENTIFYING GROUNDWATER DURING ROCK DRILL CUTTING**

[54] **SYSTEMES, PROCEDES ET APPAREILS POUR IDENTIFIER DES EAUX SOUTERRAINES PENDANT LE FORAGE DE LA ROCHE**

[72] PETERSON, JAMES, US

[72] HOWELL, RYAN, US

[71] CATERPILLAR GLOBAL MINING EQUIPMENT LLC, US

[85] 2023-06-07

[86] 2021-11-11 (PCT/US2021/058882)

[87] (WO2022/132348)

[30] US (17/122,131) 2020-12-15

[21] **3,201,564**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/24 (2006.01)**

[25] EN

[54] **ANTI-OX40L ANTIBODY, ANTI-OX40L/ANTI-TNFALPHA BISPECIFIC ANTIBODY, AND USES THEREOF**

[54] **ANTICORPS ANTI-OX40L, ANTI-CORPS BISPECIFIQUE ANTI-OX40L/ANTI-TNFALPHA ET LEURS UTILISATIONS**

[72] YOO, JUNG MIN, KR

[72] LEE, CHUNG MIN, KR

[72] LEE, YOON JUNG, KR

[72] KANG, HYEON JU, KR

[72] JUNG, SEUNG HEE, KR

[72] CHOI, JONG RYOUL, KR

[72] CHO, KYU EUN, KR

[72] HA, GYONG SIK, KR

[72] KIM, SOO YOUNG, KR

[72] PARK, BUM CHAN, KR

[72] PARK, JAE EUN, KR

[72] SHIM, EUN YOUNG, KR

[72] LEE, HYUN MI, KR

[71] HK INNO.N CORPORATION, KR

[71] Y-BIOLOGICS INC., KR

[71] IMBIOLOGICS CORP., KR

[85] 2023-06-07

[86] 2020-12-09 (PCT/IB2020/061683)

[87] (WO2022/123293)

[21] **3,201,565**  
[13] A1

[51] **Int.Cl. B62D 55/21 (2006.01)**

[25] EN

[54] **MASTER LINK AND ARTICULATED CHAIN ASSEMBLY FOR MACHINE**

[54] **MAILLON MAITRE ET ENSEMBLE CHAINE ARTICULEE POUR MACHINE**

[72] WEISBRUCH, ERIC B., US

[72] NASH, JEFFREY P., US

[72] CLARKE, DONOVAN S., US

[72] STEINER, KEVIN L., US

[71] CATERPILLAR INC., US

[85] 2023-06-07

[86] 2021-12-08 (PCT/US2021/062306)

[87] (WO2022/132514)

[30] US (17/122,573) 2020-12-15

[21] **3,201,567**  
[13] A1

[51] **Int.Cl. B64C 27/04 (2006.01) B64C 27/14 (2006.01) B64D 27/02 (2006.01) B64D 35/02 (2006.01)**

[25] FR

[54] **HYBRID PROPULSION SYSTEM FOR A HELICOPTER**

[54] **SYSTEME PROPULSIF HYBRIDE POUR UN HELICOPTERE**

[72] THIRIET, ROMAIN JEAN GILBERT, FR

[72] MERCIER-CALVAIRAC, FABIEN, FR

[72] DOUILLARD, STEPHANE ALBERT ANDRE, FR

[71] SAFRAN HELICOPTER ENGINES, FR

[85] 2023-06-07

[86] 2021-12-03 (PCT/FR2021/052209)

[87] (WO2022/123158)

[30] FR (FR2013046) 2020-12-11

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[21] **3,201,569**  
[13] A1

[51] **Int.Cl. G08B 25/00 (2006.01) G08B 25/01 (2006.01) G08B 25/14 (2006.01)**  
[25] EN  
[54] **ADVANCED BEHAVIOR-BASED SAFETY NOTIFICATION SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES DE NOTIFICATION DE SECURITE FONDES SUR COMPORTEMENT AVANCE**  
[72] SNYDER, SHANE M., US  
[72] CHADWICK, MANDY K., US  
[72] RUTH, BRENT R., US  
[72] FISHER, WILLIAM J., US  
[72] OSBORNE, RITA, US  
[71] CATERPILLAR INC., US  
[85] 2023-06-07  
[86] 2021-11-09 (PCT/US2021/058547)  
[87] (WO2022/132339)  
[30] US (17/122,994) 2020-12-15

[21] **3,201,570**  
[13] A1

[51] **Int.Cl. C08F 2/50 (2006.01) C08F 290/06 (2006.01) C08J 3/24 (2006.01) C08J 9/00 (2006.01) C08J 9/14 (2006.01) E04G 23/02 (2006.01)**  
[25] EN  
[54] **PHOTO-CURABLE INSULATION FOAM, DISPENSER FOR INJECTION THEREOF, AND METHODS OF USING SAME IN THE INSULATION**  
[54] **MOUSSE D'ISOLATION PHOTODURCISSABLE, DISTRIBUTEUR POUR INJECTION DE CETTE MOUSSE, ET PROCEDES D'UTILISATION ASSOCIES DANS L'ISOLATION**  
[72] WANG, YING, US  
[72] LAI, CHOUNG-HOUNG, US  
[72] ORF, NICHOLAS DAVID, US  
[72] BROWN, RACHEL, US  
[72] CHAN, NICKY, US  
[71] CERTAINTED CORPORATION, US  
[85] 2023-06-07  
[86] 2021-12-07 (PCT/US2021/062200)  
[87] (WO2022/125544)  
[30] US (63/122,381) 2020-12-07

[21] **3,201,571**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2023.01)**  
[25] EN  
[54] **UPDATING ASSET OWNERSHIP SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES DE MISE A JOUR DE PROPRIETE D'ACTIFS**  
[72] TENNENT, TOBY, US  
[72] PHILIPS, ERIC J., US  
[72] HOOTMAN, BRANDON, US  
[72] BELKIN, ANATOLY, US  
[72] RADAKOVIC, DANIELA, US  
[71] CATERPILLAR INC., US  
[85] 2023-06-07  
[86] 2021-11-09 (PCT/US2021/058543)  
[87] (WO2022/132338)  
[30] US (17/123,013) 2020-12-15

[21] **3,201,572**  
[13] A1

[51] **Int.Cl. H04L 67/12 (2022.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ESTABLISHING A VIRTUALIZED CHANNEL AND COMMUNICATING THEREWITH**  
[54] **SYSTEMES ET PROCEDES POUR ETABLIR UN CANAL VIRTUALISE ET COMMUNIQUER AVEC CELUI-CI**  
[72] HOUNYO, JOSIAH ARMEL, US  
[72] YALAMANCHILI, VIJAY KRISHNA, US  
[72] MCCOY, DARIN J., US  
[72] JEWELL, TYLER, US  
[71] CATERPILLAR INC., US  
[85] 2023-06-07  
[86] 2021-12-08 (PCT/US2021/062298)  
[87] (WO2022/132512)  
[30] US (17/123,028) 2020-12-15

[21] **3,201,576**  
[13] A1

[51] **Int.Cl. C01B 3/38 (2006.01) C01B 3/48 (2006.01) C01B 3/50 (2006.01) C07C 29/152 (2006.01)**  
[25] EN  
[54] **HYDROCARBON UPGRADING TO METHANOL AND HYDROGEN PRODUCT STREAMS**  
[54] **VALORISATION D'HYDROCARBURES EN FLUX DE PRODUIT DE METHANOL ET DE PRODUIT D'HYDROGENE**  
[72] MORTENSEN, PETER MOLGAARD, DK  
[72] NIELSEN, CHARLOTTE STUB, DK  
[71] TOPSOE A/S, DK  
[85] 2023-06-07  
[86] 2021-12-14 (PCT/EP2021/085611)  
[87] (WO2022/128993)  
[30] EP (20214171.9) 2020-12-15

[21] **3,201,577**  
[13] A1

[51] **Int.Cl. E02F 9/20 (2006.01) H04W 4/021 (2018.01) E02F 9/24 (2006.01) E02F 9/26 (2006.01) G01S 5/02 (2010.01)**  
[25] EN  
[54] **COMPUTING SYSTEM, APPARATUS AND METHOD FOR AUTOMATED DYNAMIC GEOFENCING ON MACHINES**  
[54] **SYSTEME INFORMATIQUE, APPAREIL ET PROCEDE DE GEOREPERAGE DYNAMIQUE AUTOMATISEE SUR DES MACHINES**  
[72] RAMASAMY, VIJAYAKUMAR, US  
[72] VALERIO, MICHEAL D., US  
[72] FIKE, MATTHEW, US  
[71] CATERPILLAR INC., US  
[85] 2023-06-07  
[86] 2021-12-08 (PCT/US2021/062295)  
[87] (WO2022/132510)  
[30] US (17/123,035) 2020-12-15

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[21] **3,201,579**  
[13] A1

[51] **Int.Cl. B65G 69/02 (2006.01) B65B 1/22 (2006.01)**  
[25] EN  
[54] **SHAKER TABLE**  
[54] **TABLE D'AGITATION**  
[72] VERBOS, EDWARD A., US  
[71] BEST PROCESS SOLUTIONS, INC., US  
[85] 2023-06-07  
[86] 2021-08-26 (PCT/US2021/047640)  
[87] (WO2022/132245)  
[30] US (17/122,373) 2020-12-15

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[21] **3,201,583**  
[13] A1

[51] **Int.Cl. B42D 25/324 (2014.01) B42D 25/342 (2014.01) B42D 25/351 (2014.01) B42D 25/387 (2014.01)**  
[25] EN  
[54] **A SECURITY ASSEMBLY AND METHOD FOR MANUFACTURING THE SAME**  
[54] **ENSEMBLE DE SECURITE ET SON PROCEDE DE FABRICATION**  
[72] KASKIALA, TONI, FR  
[72] LAPPALAINEN, KRISTIAN, FR  
[71] THALES DIS FRANCE SAS, FR  
[85] 2023-06-07  
[86] 2021-12-20 (PCT/EP2021/086742)  
[87] (WO2022/136241)  
[30] EP (20306689.9) 2020-12-23

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[21] **3,201,586**  
[13] A1

[51] **Int.Cl. H04L 67/52 (2022.01) H04W 4/02 (2018.01) H04L 67/025 (2022.01) H04L 67/04 (2022.01) H04L 67/125 (2022.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR MANAGING ON-SITE COMMUNICATIONS FOR LATENCY-DEPENDENT APPLICATIONS**  
[54] **SYSTEMES ET PROCEDES DE GESTION DE COMMUNICATIONS SUR SITE POUR APPLICATIONS DEPENDANTES DE LA LATENCE**  
[72] HAGUE, MICHAEL EVAN, US  
[72] SHATTERS, AARON R., US  
[72] SPIELMAN, MICHAEL ANTHONY, US  
[71] CATERPILLAR INC., US  
[85] 2023-06-07  
[86] 2021-12-08 (PCT/US2021/062297)  
[87] (WO2022/132511)  
[30] US (17/123,044) 2020-12-15

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[21] **3,201,588**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS RELATED TO TUMOR ACTIVATED ANTIBODIES TARGETING PSMA AND EFFECTOR CELL ANTIGENS**  
[54] **COMPOSITIONS ET METHODES ASSOCIEES A DES ANTICORPS ACTIVES PAR DES TUMEURS CIBLANT PSMA ET DES ANTIGENES DE CELLULES EFFECTRICES**  
[72] CAMPBELL, DAVID, US  
[72] DIRAIMONDO, THOMAS R., US  
[71] JANUX THERAPEUTICS, INC., US  
[85] 2023-06-07  
[86] 2021-12-07 (PCT/US2021/062249)  
[87] (WO2022/125576)  
[30] US (63/123,329) 2020-12-09  
[30] US (63/187,699) 2021-05-12

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[21] **3,201,590**  
[13] A1

[51] **Int.Cl. F16D 65/74 (2006.01)**  
[25] EN  
[54] **DUAL BRAKE SLACK ADJUSTER AND SYSTEMS, COMPONENTS, AND METHODS THEREOF**  
[54] **REGLEUR DE SEMELLE DE FREIN DOUBLE ET SYSTEMES, COMPOSANTS ET PROCEDES ASSOCIES**  
[72] WEI, PUNING, US  
[71] CATERPILLAR INC., US  
[85] 2023-06-07  
[86] 2021-11-09 (PCT/US2021/058555)  
[87] (WO2022/132340)  
[30] US (17/122,190) 2020-12-15

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[21] **3,201,591**  
[13] A1

[51] **Int.Cl. E02F 9/26 (2006.01) E02F 9/28 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR WEAR ASSESSMENT AND PART REPLACEMENT TIMING OPTIMIZATION**  
[54] **SYSTEMES ET PROCEDES D'EVALUATION D'USURE ET D'OPTIMISATION DE SYNCHRONISATION DE REMPLACEMENT DE PIECE**  
[72] REAUME, DANIEL J., US  
[72] ORGAN, DANIEL J., US  
[72] SHAROV, MICHAEL, US  
[71] CATERPILLAR INC., US  
[85] 2023-06-07  
[86] 2021-12-08 (PCT/US2021/062311)  
[87] (WO2022/132515)  
[30] US (17/123,058) 2020-12-15

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[21] **3,201,599**  
[13] A1

[51] **Int.Cl. H02G 3/06 (2006.01)**  
[25] EN  
[54] **U-SHAPED PULL BOX**  
[54] **BOITIER DE TIRAGE EN U**  
[72] VALERIO, ELIAS MARTINEZ, MX  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[85] 2023-06-07  
[86] 2021-12-13 (PCT/EP2021/025495)  
[87] (WO2022/128154)  
[30] US (63/125,749) 2020-12-15

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[21] **3,201,601**  
[13] A1

[51] **Int.Cl. H04W 76/14 (2018.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR SUPPORTING DEVICE TO DEVICE COMMUNICATION FOR WIRELESS DEVICES**  
[54] **PROCEDE ET DISPOSITIF DE PRISE EN CHARGE DE LA COMMUNICATION DE DISPOSITIF A DISPOSITIF POUR LES DISPOSITIFS SANS FIL**  
[72] VOS, GUSTAV GERALD, CA  
[72] RAJENDRAN CHANDRIKA, VISHNU, CA  
[72] PRASAD, GAUTHAM, CA  
[72] LAMPE, LUTZ HANS-JOACHIM, CA  
[71] SIERRA WIRELESS, ULC, CA  
[85] 2023-06-07  
[86] 2021-12-08 (PCT/CA2021/051759)  
[87] (WO2022/120479)  
[30] US (17/116,312) 2020-12-09

[21] **3,201,608**  
[13] A1

[51] **Int.Cl. C07F 5/02 (2006.01) A61P 11/06 (2006.01)**  
[25] EN  
[54] **BORON CONTAINING PYRAZOLE COMPOUNDS, COMPOSITIONS COMPRISING THEM, METHODS AND USES THEREOF**  
[54] **COMPOSES PYRAZOLE CONTENANT DU BORE, COMPOSITIONS COMPRENANT CEUX-CI, METHODES ET UTILISATIONS ASSOCIEES**  
[72] LONG, ALAN, US  
[72] LIU, CHUN YU, US  
[72] LIU, CHUNLIANG, US  
[72] ZHOU, YASHEEN, US  
[72] PULLEY, SHON R., US  
[72] GRAHAM, KEITH ANDREW NEWTON, US  
[71] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US  
[71] BORAH, INC., US  
[85] 2023-06-07  
[86] 2021-12-13 (PCT/US2021/072885)  
[87] (WO2022/133420)  
[30] US (63/127,329) 2020-12-18

[21] **3,201,609**  
[13] A1

[51] **Int.Cl. E21B 7/06 (2006.01) E21B 43/14 (2006.01)**  
[25] EN  
[54] **LATERAL LOCATING ASSEMBLY FOR LATERAL INTERVENTION**  
[54] **ENSEMBLE DE POSITIONNEMENT LATERAL POUR INTERVENTION LATERALE**  
[72] RODRIGUEZ, FRANKLIN CHARLES, US  
[72] HEPBURN, NEIL, GB  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2023-06-07  
[86] 2021-02-12 (PCT/US2021/017824)  
[87] (WO2022/173441)  
[30] US (17/174,628) 2021-02-12

[21] **3,201,610**  
[13] A1

[51] **Int.Cl. H04L 12/18 (2006.01) H04W 40/28 (2009.01) H04L 45/16 (2022.01)**  
[25] EN  
[54] **DISCOVERY OF FORWARDERS TO MITIGATE ASYMMETRIC LINKS IN A MULTICAST GROUP**  
[54] **DECOUVERTE D'AGENTS DE TRANSFERT POUR ATTENUER DES LIAISONS ASYMETRIQUES DANS UN GROUPE DE MULTIDIFFUSION**  
[72] BARTIER, JEROME, US  
[72] MONIER, FABRICE, US  
[71] ITRON GLOBAL SARL, US  
[85] 2023-06-07  
[86] 2021-12-17 (PCT/US2021/064218)  
[87] (WO2022/140202)  
[30] US (17/133,252) 2020-12-23

[21] **3,201,612**  
[13] A1

[51] **Int.Cl. C07D 519/00 (2006.01)**  
[25] EN  
[54] **COMBINATION THERAPIES FOR THE TREATMENT OF CANCER**  
[54] **POLYTHERAPIES POUR LE TRAITEMENT DU CANCER**  
[72] MARTIN, LEENUS, US  
[72] BRAIL, LESLIE HARRIS, US  
[72] SHOEMAKER, ROBERT FIELD, US  
[71] ERASCA, INC., US  
[85] 2023-06-07  
[86] 2021-12-10 (PCT/US2021/062927)  
[87] (WO2022/125971)  
[30] US (63/124,669) 2020-12-11  
[30] US (63/214,736) 2021-06-24  
[30] US (63/277,555) 2021-11-09  
[30] US (63/283,035) 2021-11-24

[21] **3,201,630**  
[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01) A61K 8/18 (2006.01) A61K 41/00 (2020.01) G01W 1/10 (2006.01)**  
[25] EN  
[54] **SYSTEM TO SUPPORT TREATMENTS BASED ON THE EXPOSURE OF A USER OR A SURFACE TO SOLAR RADIATION**  
[54] **SYSTEME DE PRISE EN CHARGE DE TRAITEMENTS BASE SUR L'EXPOSITION D'UN UTILISATEUR OU D'UNE SURFACE AUX RAYONNEMENTS SOLAIRES**  
[72] SIMEONE, EMILIO, IT  
[72] MORELLI, MARCO, GB  
[71] SIHEALTH PHOTONICS S.R.L., IT  
[85] 2023-06-08  
[86] 2021-03-31 (PCT/IB2021/052686)  
[87] (WO2022/136936)  
[30] IT (10202000032039) 2020-12-23

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[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61M 13/00 (2006.01) A61M 39/22 (2006.01)**

[25] EN

[54] **SURGICAL GAS DELIVERY SYSTEM AND METHOD FOR GAS SEALED INSUFFLATION AND RECIRCULATION USING PROPORTIONAL VALVES**

[54] **SYSTEME DE DISTRIBUTION DE GAZ CHIRURGICAL ET PROCEDE D'INSUFFLATION ET DE RECIRCULATION ETANCHES AU GAZ A L'AIDE DE VANNES PROPORTIONNELLES**

[72] KOLTZ, MICHAEL JR., US

[72] TEYMOURI, JONATHAN, US

[71] CONMED CORPORATION, US

[85] 2023-06-08

[86] 2022-01-19 (PCT/US2022/012868)

[87] (WO2022/159422)

[30] US (17/155,572) 2021-01-22

[21] **3,201,648**  
[13] A1

[51] **Int.Cl. A61K 31/165 (2006.01) A61K 31/415 (2006.01) A61K 31/5415 (2006.01) A61K 39/00 (2006.01) A61K 45/06 (2006.01) A61P 7/06 (2006.01)**

[25] EN

[54] **TREATMENT AND PREVENTION OF ANAEMIA OF INFLAMMATION**

[54] **TRAITEMENT ET PREVENTION DE L'ANEMIE INFLAMMATOIRE**

[72] VAN BRUGGEN, ROBIN, NL

[72] KLEI, THOMAS ROBERT LEON, NL

[71] SANQUIN IP B.V., NL

[85] 2023-06-08

[86] 2021-12-10 (PCT/NL2021/050756)

[87] (WO2022/124900)

[30] EP (20213523.2) 2020-12-11

[21] **3,201,652**  
[13] A1

[51] **Int.Cl. C12N 5/00 (2006.01) C12N 5/0735 (2010.01) C12N 5/0787 (2010.01) C12N 5/0789 (2010.01) C12N 5/0797 (2010.01)**

[25] EN

[54] **HUMAN CHIMERIC ANTIGEN RECEPTOR NEUTROPHILS, COMPOSITIONS, KITS AND METHODS OF USE**

[54] **NEUTROPHILES RECEPTEURS CHIMERIQUES CIBLANT UN ANTIGENE HUMAIN, COMPOSITIONS, KITS ET METHODES D'UTILISATION**

[72] BAO, XIAOPING, US

[72] DENG, QING, US

[72] CHANG, YUN, US

[72] MOHD SABRI, RAMIZAH SYAHIRAH, US

[71] PURDUE RESEARCH FOUNDATION, US

[85] 2023-06-08

[86] 2021-12-10 (PCT/US2021/062734)

[87] (WO2022/125850)

[30] US (63/124,125) 2020-12-11

[21] **3,201,658**  
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01)**

[25] EN

[54] **POLYPROPYLENE AND POLYTETRAFLUOROETHYLENE COMBINATION FACE MASK**

[54] **MASQUE FACIAL A COMBINAISON DE POLYPROPYLENE ET DE POLYTETRAFLUOROETHYLENE**

[72] BARBEAU, PATRICE, CA

[72] GIRAD, LUC, CA

[72] BERGERON, DANY, CA

[72] HARDY, GENEVIEVE, CA

[71] BARBEAU, PATRICE, CA

[71] GIRAD, LUC, CA

[71] BERGERON, DANY, CA

[71] HARDY, GENEVIEVE, CA

[85] 2023-06-08

[86] 2021-12-08 (PCT/CA2021/051763)

[87] (WO2022/120482)

[30] US (63/122,759) 2020-12-08

[21] **3,202,291**  
[13] A1

[51] **Int.Cl. C07D 211/46 (2006.01) B01D 9/02 (2006.01)**

[25] EN

[54] **HIGHLY PURIFIED BATCHES OF PHARMACEUTICAL GRADE 1-DEOXYGALACTONOJIRIMYCIN COMPOUNDS**

[54] **LOTS HAUTEMENT PURIFIES DE COMPOSES DE 1-DESOXYGALACTONOJIRIMYCIN E DE QUALITE PHARMACEUTIQUE**

[72] SHETH, KAMLESH, US

[72] TESLER, SERGEY, US

[71] AMICUS THERAPEUTICS, INC., US

[85] 2023-06-14

[86] 2021-12-16 (PCT/US2021/063653)

[87] (WO2022/132992)

[30] US (63/126,264) 2020-12-16

[30] US (17/148,817) 2021-01-14

[21] **3,202,295**  
[13] A1

[51] **Int.Cl. H01M 50/152 (2021.01) H01M 50/143 (2021.01) H01M 50/167 (2021.01) H01M 50/342 (2021.01) H01M 50/538 (2021.01) H01M 50/55 (2021.01) H01M 50/559 (2021.01) H01M 50/593 (2021.01)**

[25] EN

[54] **CYLINDRICAL BATTERY CELL, AND BATTERY PACK AND VEHICLE COMPRISING SAME**

[54] **ELEMENT DE BATTERIE CYLINDRIQUE, ET BLOC-BATTERIE ET VEHICULE LE COMPRENANT**

[72] HWANGBO, KWANG-SU, KR

[72] KIM, DO-GYUN, KR

[72] MIN, GEON-WOO, KR

[72] LIM, HAE-JIN, KR

[72] JO, MIN-KI, KR

[72] CHOI, SU-JI, KR

[71] LG ENERGY SOLUTION, LTD., KR

[85] 2023-06-14

[86] 2021-12-24 (PCT/KR2021/019897)

[87] (WO2022/145910)

[30] KR (10-2020-0186476) 2020-12-29



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[21] **3,202,301**  
[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) A61K 47/54 (2017.01) A61K 47/64 (2017.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR PREVENTING OR TREATING GLIOBLASTOMA COMPRISING PEPTIDE NUCLEIC ACID COMPLEX AS ACTIVE INGREDIENT**

[54] **COMPOSITION POUR PREVENIR OU TRAITER LE GLIOBLASTOME COMPRENANT UN COMPLEXE D'ACIDES NUCLEIQUES PEPTIDIQUES EN TANT QUE PRINCIPE ACTIF**

[72] PARK, MIN-JUNG, KR  
[72] KIM, HYE JOO, KR  
[72] YU, JI-YEON, KR  
[72] PARK, HEE KYUNG, KR  
[71] SEASUN THERAPEUTICS, KR  
[85] 2023-06-14  
[86] 2021-12-14 (PCT/KR2021/018965)  
[87] (WO2022/131745)  
[30] KR (10-2020-0175271) 2020-12-15

[21] **3,202,302**  
[13] A1

[51] **Int.Cl. A47K 13/00 (2006.01) A47K 13/24 (2006.01) A47K 13/30 (2006.01) E03D 9/00 (2006.01) E03D 9/08 (2006.01)**

[25] EN

[54] **AUTO CLEANING TOILET SEAT ASSEMBLY**

[54] **ENSEMBLE SIEGE DE TOILETTE AUTONETTOYANT**

[72] DORRA, NURI, US  
[71] SANEEX LLC, US  
[85] 2023-06-14  
[86] 2022-01-10 (PCT/US2022/011818)  
[87] (WO2022/150703)  
[30] US (63/135,555) 2021-01-08  
[30] US (63/212,720) 2021-06-20

[21] **3,202,304**  
[13] A1

[51] **Int.Cl. B62D 35/00 (2006.01)**

[25] EN

[54] **FAIRING ASSEMBLY FOR A COMMERCIAL VEHICLE**

[54] **ENSEMBLE CARENAGE POUR UN VEHICULE UTILITAIRE**

[72] HEINZER, HANS, US  
[71] DAIMLER TRUCK AG, DE  
[85] 2023-06-14  
[86] 2021-11-25 (PCT/EP2021/082933)  
[87] (WO2022/128383)  
[30] GB (2019928.7) 2020-12-17

[21] **3,202,307**  
[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) A61K 47/54 (2017.01) A61K 47/64 (2017.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR PREVENTING OR TREATING PANCREATIC CANCER COMPRISING PEPTIDE NUCLEIC ACID COMPLEX**

[54] **COMPOSITION POUR LA PREVENTION OU LE TRAITEMENT DU CANCER DU PANCREAS COMPRENANT UN COMPLEXE D'ACIDE NUCLEIQUE PEPTIDIQUE**

[72] KANG, YU-SUN, KR  
[72] KIM, HYE JOO, KR  
[72] YU, JI-YEON, KR  
[72] PARK, HEE KYUNG, KR  
[71] SEASUN THERAPEUTICS, KR  
[85] 2023-06-14  
[86] 2021-12-14 (PCT/KR2021/018964)  
[87] (WO2022/131744)  
[30] KR (10-2020-0175270) 2020-12-15

[21] **3,202,309**  
[13] A1

[51] **Int.Cl. B05D 1/02 (2006.01) B05D 1/18 (2006.01) B05D 1/28 (2006.01)**

[25] EN

[54] **LIGNIN-BASED EPOXIDE PREPOLYMERS, POLYMERS, RELATED COMPOSITIONS, AND RELATED METHODS**

[54] **PREPOLYMERES D'EPOXYDE A BASE DE LIGNINE, POLYMERES, COMPOSITIONS ASSOCIEES ET PROCEDES ASSOCIES**

[72] NEJAD, MOJGAN, US  
[72] NIKAFSHAR, SAEID, US  
[71] BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, US  
[85] 2023-06-14  
[86] 2021-12-21 (PCT/US2021/064513)  
[87] (WO2022/140323)  
[30] US (63/129,433) 2020-12-22

[21] **3,202,310**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN

[54] **TREATMENT RESPONSE SIGNATURES**

[54] **SIGNATURES DE REPONSE A DES TRAITEMENTS**

[72] ABRAHAM, JIM, US  
[72] SPETZLER, DAVID, US  
[71] CARIS MPI, INC., US  
[85] 2023-06-14  
[86] 2021-12-15 (PCT/US2021/063603)  
[87] (WO2022/132964)  
[30] US (63/125,938) 2020-12-15

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[51] <b>Int.Cl. G05B 23/02 (2006.01)</b> [25] EN [54] <b>METHODS AND SYSTEMS FOR MAXIMIZING OPHTHALMIC MEDICAL DEVICE UPTIME VIA PREDICTIVE HEALTH MONITORING AND PROACTIVE PREVENTATIVE MAINTENANCE</b> [54] <b>PROCEDES ET SYSTEMES PERMETTANT DE MAXIMISER LA DUREE DE VIE D'UN DISPOSITIF MEDICAL OPHTALMIQUE PAR SURVEILLANCE PREDICTIVE D'ETAT DE SANTE ET ENTRETIEN PREVENTIF PROACTIF</b> [72] ALUY, NANCY, US [72] CAMPIN, JOHN ALFRED, US [72] GREEN, BRIAN GEORGE, US [72] ZIELKE, MARK ANDREW, US [71] ALCON INC., CH [85] 2023-06-14 [86] 2021-10-21 (PCT/IB2021/059738) [87] (WO2022/136955) [30] US (63/130,333) 2020-12-23	[51] <b>Int.Cl. A01G 9/00 (2018.01) A01G 9/20 (2006.01) A01G 9/24 (2006.01) A01G 31/00 (2018.01)</b> [25] EN [54] <b>PLANT HOLDER FOR PLANT CULTIVATION OBJECT</b> [54] <b>SUPPORT DE PLANTE POUR OBJET DE CULTURE DE PLANTE</b> [72] DESMARAIS, YANNICK, CA [72] MICHAUD THIBAUT, ALEXANDRE, CA [71] DESMARAIS, YANNICK, CA [85] 2023-06-14 [86] 2021-07-09 (PCT/CA2021/050945) [87] (WO2022/126234) [30] US (63/124,971) 2020-12-14	[51] <b>Int.Cl. B08B 17/02 (2006.01) B60S 3/04 (2006.01)</b> [25] EN [54] <b>LIQUID COLLECTION ARRANGEMENT FOR COLLECTING WASHING LIQUID AND METHOD OF MOUNTING THE LIQUID COLLECTION ARRANGEMENT</b> [54] <b>AGENCEMENT DE RECUPERATION DE LIQUIDE PERMETTANT DE RECUPERER UN LIQUIDE DE LAVAGE ET L'AGENCEMENT DE RECUPERATION DE LIQUIDE</b> [72] RENQVIST, KARRI, FI [72] LINDELL, PATRIK, FI [71] LAZY CAR WASH OY, FI [85] 2023-06-14 [86] 2021-12-10 (PCT/FI2021/050862) [87] (WO2022/129688) [30] FI (20206309) 2020-12-16
[21] <b>3,202,315</b> [13] A1	[21] <b>3,202,322</b> [13] A1	[21] <b>3,202,329</b> [13] A1
[51] <b>Int.Cl. A61K 31/5377 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) A61P 15/10 (2006.01)</b> [25] EN [54] <b>USE AS SELECTIVE AGONIST OF MALANOCORTIN-4 RECEPTOR</b> [54] <b>UTILISATION EN TANT QU'AGONISTE SELECTIF DU RECEPTEUR DE MALANOCORTINE-4</b> [72] PARK, HEE DONG, KR [72] YEO, SU JIN, KR [72] PARK, HYUN SEO, KR [72] PARK, JIN SOOK, KR [72] AHN, HYE WON, KR [71] LG CHEM, LTD., KR [85] 2023-06-14 [86] 2021-12-21 (PCT/KR2021/019500) [87] (WO2022/139406) [30] KR (10-2020-0180505) 2020-12-22	[51] <b>Int.Cl. C12N 9/28 (2006.01) C12P 19/14 (2006.01)</b> [25] EN [54] <b>METHOD OF STARCH PROCESSING</b> [54] <b>PROCEDE DE TRAITEMENT D'AMIDON</b> [72] NEWTON, ANTHONY, US [72] HUBER, AMANDA, US [72] SATO, YUKIKO, US [72] QURESHI, ASFIA, US [71] BASF SE, DE [85] 2023-06-14 [86] 2021-12-14 (PCT/US2021/063344) [87] (WO2022/132794) [30] US (63/125,039) 2020-12-14	[51] <b>Int.Cl. H02K 1/06 (2006.01) H02K 1/18 (2006.01) H02K 1/27 (2022.01) H02K 5/20 (2006.01) H02K 9/04 (2006.01) H02K 9/19 (2006.01) H02K 19/24 (2006.01) H02K 21/02 (2006.01) H02K 21/04 (2006.01)</b> [25] EN [54] <b>ALTERNATOR ASSEMBLY</b> [54] <b>ENSEMBLE ALTERNATEUR</b> [72] ROBERTS, MARK, AU [71] RAPID POWER INDUSTRIES, AU [85] 2023-06-14 [86] 2021-12-16 (PCT/AU2021/051501) [87] (WO2022/126192) [30] AU (2020904705) 2020-12-17 [30] AU (2021106787) 2021-08-24

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[21] **3,202,333**  
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01) A61F 9/007 (2006.01) A61N 5/06 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR TREATING DRY EYES**

[54] **DISPOSITIF ET METHODE DE TRAITEMENT DES YEUX SECS**

[72] ALTMAN, HERNAN, IL  
[72] BIRMAN, JOSEPH, IL  
[71] LUMENIS BE LTD, IL  
[85] 2023-06-14  
[86] 2021-12-30 (PCT/IB2021/062485)  
[87] (WO2022/144834)  
[30] US (63/131,856) 2020-12-30

[21] **3,202,337**  
[13] A1

[51] **Int.Cl. H01M 50/167 (2021.01) H01M 50/188 (2021.01) H01M 50/342 (2021.01) H01M 50/528 (2021.01) H01M 50/547 (2021.01) H01M 50/559 (2021.01) H01M 50/567 (2021.01)**

[25] EN

[54] **BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**

[54] **BATTERIE, ET BLOC-BATTERIE ET VEHICULE LA COMPRENANT**

[72] JO, MIN-KI, KR  
[72] KANG, BO-HYUN, KR  
[72] KIM, DO-GYUN, KR  
[72] MIN, GEON-WOO, KR  
[72] CHOI, SU-JI, KR  
[72] HWANGBO, KWANG-SU, KR  
[72] KIM, JAE-WOONG, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2023-06-14  
[86] 2022-02-18 (PCT/KR2022/002467)  
[87] (WO2022/177376)  
[30] KR (10-2021-0022877) 2021-02-19  
[30] KR (10-2021-0022894) 2021-02-19  
[30] KR (10-2021-0024424) 2021-02-23  
[30] KR (10-2021-0131215) 2021-10-01  
[30] KR (10-2021-0154307) 2021-11-10

[21] **3,202,341**  
[13] A1

[51] **Int.Cl. H04L 41/00 (2022.01) H04L 47/80 (2022.01)**

[25] EN

[54] **NETWORK RESOURCE REQUEST METHOD AND RELATED DEVICE THEREOF**

[54] **PROCEDE DE DEMANDE DE RESSOURCE DE RESEAU ET DISPOSITIF ASSOCIE**

[72] WANG, FENGBAO, CN  
[72] WANG, SHANSHAN, CN  
[72] YU, MING, CN  
[72] YANG, JUN, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2023-06-14  
[86] 2021-12-21 (PCT/CN2021/139963)  
[87] (WO2022/135373)  
[30] CN (202011538882.9) 2020-12-23

[21] **3,202,353**  
[13] A1

[51] **Int.Cl. C07D 239/54 (2006.01) C07C 69/65 (2006.01) C07C 69/738 (2006.01) C07D 239/47 (2006.01)**

[25] EN

[54] **METHOD OF PREPARING PYRIMIDINE CYCLOHEXYL GLUCOCORTICOID RECEPTOR MODULATORS**

[54] **PROCEDE DE PREPARATION DE MODULATEURS DES RECEPTEURS DE GLUCOCORTICOIDES DE TYPE PYRIMIDINE CYCLOHEXYLE**

[72] DENER, JEFFREY MARK, US  
[72] HUNT, HAZEL JOAN, US  
[72] TYRRELL, NICHOLAS DAVID, US  
[71] CORCEPT THERAPEUTICS INCORPORATED, US  
[85] 2023-06-14  
[86] 2021-12-20 (PCT/US2021/064428)  
[87] (WO2022/140293)  
[30] US (63/128,539) 2020-12-21

[21] **3,202,354**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/444 (2006.01) A61P 1/16 (2006.01) A61P 25/18 (2006.01)**

[25] EN

[54] **METHODS OF PREPARING HETEROARYL-KETONE FUSED AZADECALIN GLUCOCORTICOID RECEPTOR MODULATORS**

[54] **PROCEDES DE PREPARATION DE MODULATEURS DE RECEPTEUR DES GLUCOCORTICOIDES D'AZADECALINE FUSIONNES A L'HETEROARYLE-CETONE**

[72] DENER, JEFFREY MARK, US  
[72] HUNT, HAZEL JOAN, US  
[72] LEMONS, TRAVIS, US  
[72] REID, GARY, US  
[72] GARREC, KILIAN, US  
[72] STEPHENS, THOMAS C., US  
[72] YAMAGATA, ADAM DAISUKE GAMMACK, US  
[72] LU, YUNGUO, US  
[71] CORCEPT THERAPEUTICS INCORPORATED, US  
[85] 2023-06-14  
[86] 2021-12-22 (PCT/US2021/064947)  
[87] (WO2022/140600)  
[30] CN (PCT/CN2020/139524) 2020-12-25

[21] **3,202,356**  
[13] A1

[51] **Int.Cl. H04L 9/00 (2022.01)**

[25] EN

[54] **HOMOMORPHIC ENCRYPTION METHOD AND ASSOCIATED DEVICES AND SYSTEM**

[54] **PROCEDE DE CHIFFREMENT HOMOMORPHE ET DISPOSITIFS ET SYSTEME ASSOCIES**

[72] KOSKAS, MICHEL, FR  
[72] CHARTIER, PHILIPPE, FR  
[72] LEMOU, MOHAMMED, FR  
[72] MEHATS, FLORIAN, FR  
[71] RAVEL TECHNOLOGIES, FR  
[85] 2023-06-14  
[86] 2020-12-18 (PCT/IB2020/001147)  
[87] (WO2022/129979)

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[21] **3,202,360**  
[13] A1

[51] **Int.Cl. C07C 23/36 (2006.01) A61K 47/50 (2017.01) A61K 47/51 (2017.01) A61K 47/54 (2017.01) C07C 13/47 (2006.01)**

[25] EN

[54] **IRAK DEGRADERS AND USES THEREOF**

[54] **AGENTS DE DEGRADATION D'IRAK ET LEURS UTILISATIONS**

[72] MAINOLFI, NELLO, US

[72] JI, NAN, US

[72] WEISS, MATTHEW M., US

[72] ZHENG, XIAOZHANG, US

[72] ZHANG, YI, US

[72] FLEMING, PAUL R., US

[72] ZHU, XIAO, US

[71] KYMERA THERAPEUTICS, INC, US

[85] 2023-06-14

[86] 2021-12-30 (PCT/US2021/073186)

[87] (WO2022/147465)

[30] US (63/132,332) 2020-12-30

[21] **3,202,373**  
[13] A1

[51] **Int.Cl. B65D 41/32 (2006.01) B65D 41/34 (2006.01) B65D 49/04 (2006.01)**

[25] EN

[54] **ANTI-REFILL BOTTLE CAP**

[54] **BOUCHON DE BOUTEILLE ANTI-RECHARGE**

[72] LOU, RONGHE, CN

[72] XIAO, WENHUI, CN

[72] ZHENG, LUKE, CN

[72] HE, XIANGNAN, CN

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

[85] 2023-06-15

[86] 2022-02-08 (PCT/CN2022/075543)

[87] (WO2022/171087)

[30] CN (202110179356.6) 2021-02-09

[21] **3,202,515**  
[13] A1

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/22 (2006.01)**

[25] EN

[54] **OIL PRODUCTION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE PRODUCTION DE PETROLE**

[72] MCINTYRE, JACK, US

[71] MCINTYRE, JACK, US

[85] 2023-06-15

[86] 2021-12-17 (PCT/US2021/063954)

[87] (WO2022/133168)

[30] US (63/127,656) 2020-12-18

[30] US (17/553,073) 2021-12-16

[21] **3,202,645**  
[13] A1

[51] **Int.Cl. B01D 39/06 (2006.01) B01D 39/16 (2006.01) B01D 39/18 (2006.01) B01D 39/20 (2006.01)**

[25] EN

[54] **A FILTER MEDIA**

[54] **MILIEU FILTRANT**

[72] MONKO, TYLER, US

[72] COUSART, FRANK, US

[71] AHLSTROM OYJ, FI

[85] 2023-06-16

[86] 2021-12-17 (PCT/FI2021/050892)

[87] (WO2022/129704)

[30] US (63/127,324) 2020-12-18

[30] EP (21151697.6) 2021-01-14

[21] **3,202,649**  
[13] A1

[51] **Int.Cl. G06T 7/73 (2017.01)**

[25] EN

[54] **JOINT ANGLE DETERMINATION UNDER LIMITED VISIBILITY**

[54] **DETERMINATION D'ANGLE D'ARTICULATION SOUS UNE VISIBILITE LIMITEE**

[72] PHAN, HUY QUOC, GB

[72] HARTE, THOMAS, GB

[71] FUTURE HEALTH WORKS LTD., GB

[85] 2023-06-16

[86] 2021-12-16 (PCT/IB2021/000879)

[87] (WO2022/136915)

[30] US (63/128,576) 2020-12-21

[21] **3,202,674**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2023.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONSUMER CHOICE MODELING**

[54] **SYSTEME ET PROCEDE DE MODELISATION DE CHOIX DE CONSOMMATEURS**

[72] ANDERSON, JOEL GREGORY, CA

[72] ASH, IAN, CA

[71] DIG INSIGHTS INC., CA

[85] 2023-06-16

[86] 2021-12-17 (PCT/CA2021/051843)

[87] (WO2022/126283)

[30] US (63/127,920) 2020-12-18

[21] **3,202,675**  
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01) C12N 15/86 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **VIRAL CAPSID PROTEINS WITH SPECIFICITY TO HEART TISSUE CELLS**

[54] **PROTEINES DE CAPSIDE VIRALE AYANT UNE SPECIFICITE POUR DES CELLULES DE TISSU CARDIAQUE**

[72] LAMLA, THORSTEN, DE

[72] BLAZEVIC, DRAGICA, DE

[72] MICHELFELDER, STEFAN, DE

[72] DUCHS, MATTHIAS, DE

[72] KREUZ, SEBASTIAN, DE

[72] SAUER, ACHIM, DE

[72] MEIER, FLORIAN, DE

[72] STIERSTORFER, BIRGIT, DE

[72] WOLLERT, KAI CHRISTOPH, DE

[72] KORF-KLINGEBIEL, MORTIMER, DE

[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE

[85] 2023-06-16

[86] 2021-12-23 (PCT/EP2021/087522)

[87] (WO2022/136655)

[30] EP (20217171.6) 2020-12-23

[30] EP (21171861.4) 2021-05-03

[21] **3,202,677**  
[13] A1

[51] **Int.Cl. C09K 19/04 (2006.01) C09K 19/38 (2006.01) C09K 19/52 (2006.01)**

[25] EN

[54] **LIQUID CRYSTAL POLYMER COMPOSITE, LIQUID CRYSTAL POLYMER COMPOSITE FILM, AND METAL-CLAD LAMINATE INCLUDING SAME**

[54] **COMPOSITE POLYMERES A CRISTAUX LIQUIDES, FILM COMPOSITE POLYMERES A CRISTAUX LIQUIDES ET STRATIFIE A REVETEMENT METALLIQUE COMPRENANT CELUI-CI**

[72] WELCH, JOHN HENRY, US

[72] HAU, KWONG YIU, US

[71] IONIC MATERIALS, INC., US

[85] 2023-06-16

[86] 2021-12-21 (PCT/US2021/064627)

[87] (WO2022/140398)

[30] US (63/128,564) 2020-12-21

[30] US (63/165,480) 2021-03-24

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[21] **3,202,771**  
[13] A1

[51] **Int.Cl. A01N 43/56 (2006.01) A01N 37/40 (2006.01) A01N 37/44 (2006.01) A01N 37/46 (2006.01) A01N 37/52 (2006.01) A01N 41/06 (2006.01) A01N 43/36 (2006.01) A01N 43/40 (2006.01) A01N 43/54 (2006.01) A01N 43/60 (2006.01) A01N 43/713 (2006.01) A01N 47/44 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **PESTICIDAL AND HERBICIDAL COMPOUNDS AND METHODS OF USE THEREOF**

[54] **COMPOSES PESTICIDES ET HERBICIDES ET LEURS PROCEDES D'UTILISATION**

[72] INBAL, BOAZ, IL

[72] WEXSELBLATT, EZEQUIEL, IL

[72] FREUD, YEHOSHUA, IL

[72] ATSMON-RAZ, YOAV, IL

[72] LOTHAR, WILLMS, DE

[71] AG PLENUS LTD, IL

[85] 2023-06-19

[86] 2022-01-23 (PCT/IL2022/050095)

[87] (WO2022/157780)

[30] IL (280384) 2021-01-25

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[21] **3,202,782**  
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/485 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01) H01M 4/02 (2006.01) H01M 4/36 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING A POSITIVE ELECTRODE ACTIVE MATERIAL FOR RECHARGEABLE BATTERIES**

[54] **PROCEDE DE PREPARATION DE MATERIAU ACTIF D'ELECTRODE POSITIVE POUR BATTERIES RECHARGEABLES**

[72] KUMAKURA, SHINICHI, BE

[72] YANG, TAEHYEON, KR

[71] UMICORE, BE

[85] 2023-06-19

[86] 2021-12-17 (PCT/IB2021/061912)

[87] (WO2022/130312)

[30] EP (20215465.4) 2020-12-18

[30] EP (20215473.8) 2020-12-18

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[21] **3,202,792**  
[13] A1

[51] **Int.Cl. G01N 29/04 (2006.01) G01N 29/22 (2006.01) G01N 29/24 (2006.01) G01N 29/265 (2006.01) G01N 29/32 (2006.01)**

[25] EN

[54] **ULTRASONIC WALL THICKNESS MEASUREMENT SYSTEM HAVING A HIGH TEMPERATURE ULTRASONIC TRANSDUCER FOR MONITORING THE CONDITION OF A STRUCTURAL ASSET**

[54] **SYSTEME A ULTRASONS DE MESURE D'EPaisseur DE PAROI AYANT UN TRANSDUCTEUR A ULTRASONS A HAUTE TEMPERATURE DESTINE A CONTROLER LA CONDITION D'UN ACTIF STRUCTUREL**

[72] WANG, KE, US

[72] ROSCA, DUMITRU, US

[72] SCHIEKE, SASCHA, US

[71] MOLEX, LLC, US

[85] 2023-06-19

[86] 2021-12-21 (PCT/IB2021/062123)

[87] (WO2022/137131)

[30] US (63/128,205) 2020-12-21

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[21] **3,202,794**  
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**

[25] EN

[54] **REAL-TIME DETECTION OF ARTIFACTS IN OPHTHALMIC IMAGES**

[54] **DETECTION EN TEMPS REEL D'ARTEFACTS DANS DES IMAGES OPHTALMIQUES**

[72] SARVER, EDWIN JAY, US

[72] HALL, MAX, US

[71] ALCON INC., CH

[85] 2023-06-19

[86] 2021-12-15 (PCT/IB2021/061800)

[87] (WO2022/149028)

[30] US (63/135,125) 2021-01-08

[30] US (17/236,908) 2021-04-21

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[21] **3,202,795**  
[13] A1

[51] **Int.Cl. H04B 7/0452 (2017.01) H04B 7/185 (2006.01)**

[25] EN

[54] **LINE-OF-SIGHT MULTI-INPUT MULTI-OUTPUT ENABLED MULTIBEAM SATELLITE SYSTEM**

[54] **SYSTEME SATELLITE MULTIFAISCEAUX ACTIVE A ENTrees MULTIPLES ET SORTIES MULTIPLES EN VISIBILITE DIRECTE**

[72] BEIDSAS, BASSEL F, US

[71] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2023-06-19

[86] 2021-12-11 (PCT/US2021/062978)

[87] (WO2022/146660)

[30] US (17/136,860) 2020-12-29

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[21] **3,202,797**  
[13] A1

[51] **Int.Cl. F03B 17/06 (2006.01) F03D 5/06 (2006.01) F03D 7/06 (2006.01) F15D 1/12 (2006.01)**

[25] EN

[54] **VIMEC ENERGY TRANSDUCER**

[54] **TRANSDUCTEUR D'ENERGIE VIMEC**

[72] ONG, MUK CHEN, NO

[72] JANOCHA, MAREK JAN, NO

[71] THE UNIVERSITY OF STAVANGER, NO

[85] 2023-06-19

[86] 2022-02-08 (PCT/EP2022/052943)

[87] (WO2022/171591)

[30] SE (2150144-0) 2021-02-10

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[21] **3,202,804**  
[13] A1

[51] **Int.Cl. C04B 28/14 (2006.01)**  
[25] EN  
[54] **CALCIUM ALUMINATE CEMENT AND CALCIUM SULFOALUMINATE CEMENT CATALYSTS IN GYPSUM PANELS AND USE THEREOF**

[54] **CIMENT D'ALUMINATE DE CALCIUM ET CATALYSEURS POUR CIMENT DE SULFOALUMINATE DE CALCIUM DANS DES PLAQUES DE PLATRE ET LEUR UTILISATION**

[72] LI, QINGHUA, US  
[72] DUBEY, ASHISH, US  
[72] D'ANNA, NICHOLAS, US  
[71] KNAUF GIPS KG, DE  
[85] 2023-06-19  
[86] 2021-12-21 (PCT/IB2021/062113)  
[87] (WO2022/137123)  
[30] US (63/128,270) 2020-12-21  
[30] US (17/245,862) 2021-04-30

[21] **3,202,827**  
[13] A1

[51] **Int.Cl. B27K 3/00 (2006.01) C08L 91/00 (2006.01) C09D 167/08 (2006.01) C09D 191/00 (2006.01)**

[25] EN  
[54] **WOOD COATING COMPOSITIONS**

[54] **COMPOSITIONS DE REVETEMENT DE BOIS**

[72] VERDUYN, ARNE, BE  
[72] DE MEYER, ELKE, BE  
[72] TORFS, JAN, BE  
[72] VAN DER HEIJDEN, SAM, BE  
[71] MUYLLE-FACON, BE  
[85] 2023-06-19  
[86] 2021-12-22 (PCT/EP2021/087384)  
[87] (WO2022/136591)  
[30] EP (20217130.2) 2020-12-23  
[30] BE (2021/5606) 2021-07-30

[21] **3,202,828**  
[13] A1

[51] **Int.Cl. A61B 6/00 (2006.01) G06T 7/10 (2017.01) G16H 30/40 (2018.01) G16H 50/20 (2018.01) A61B 6/03 (2006.01) A61B 6/14 (2006.01) G06T 7/00 (2017.01)**

[25] EN  
[54] **METHOD OF AUTOMATIC SEGMENTATING OF MAXILLOFACIAL BONE IN CT IMAGE USING DEEP LEARNING**

[54] **PROCEDE DE SEGMENTATION AUTOMATIQUE D'OS MAXILLO-FACIAUX DANS UNE IMAGE DE TOMODENSITOMETRIE A L'AIDE D'UN APPRENTISSAGE PROFOND**

[72] PARK, SEUNGBIN, KR  
[72] SHIM, EUNG JUNE, KR  
[72] KIM, YOUNGJUN, KR  
[71] IMAGOWORKS INC., KR  
[85] 2023-06-19  
[86] 2021-01-07 (PCT/KR2021/000179)  
[87] (WO2022/145557)  
[30] KR (10-2020-0188575) 2020-12-30

[21] **3,202,833**  
[13] A1

[51] **Int.Cl. E05B 47/00 (2006.01) G16H 20/10 (2018.01) A61J 7/04 (2006.01) A61M 15/00 (2006.01)**

[25] EN  
[54] **METHODS AND SYSTEMS FOR ACTIVATION OF A DRUG DELIVERY DEVICE**

[54] **PROCEDES ET SYSTEMES D'ACTIVATION D'UN DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**

[72] BARBARIC, MLADEN, CA  
[72] KIM, SUNGMOON, CA  
[72] LIAO, YUHAO, CA  
[72] GINGRAS, ERIC, CA  
[72] WANG, MENGKE, CA  
[72] KIM, BONG GEUN, CA  
[72] CORBELLINI, LUCA, CA  
[72] MOON, CHONGCHUN, CA  
[71] AIRGRAFT INC., CA  
[85] 2023-06-19  
[86] 2021-12-22 (PCT/CA2021/051881)  
[87] (WO2022/133611)  
[30] US (63/129,237) 2020-12-22

[21] **3,202,835**  
[13] A1

[51] **Int.Cl. B29C 65/00 (2006.01) B29C 65/04 (2006.01) B29C 65/06 (2006.01) B29C 65/22 (2006.01) B29C 65/34 (2006.01) B29C 65/36 (2006.01) F16L 47/02 (2006.01) F16L 47/03 (2006.01) F16L 47/06 (2006.01)**

[25] EN  
[54] **APPARATUS AND METHOD FOR BONDING TIE LAYERS ON REINFORCED THERMOSETTING RESIN LAMINATES FOR USE IN WELDING THERMOSET COMPOSITE PIPE JOINTS**

[54] **APPAREIL ET METHODE DE LIAISON DE COUCHES DE LIAISON SUR DES STRATIFIES DE RESINE THERMODURCISSABLE RENFORCEE DESTINES A ETRE UTILISES DANS LE SOUDAGE DE JOINTS DE TUYAUX COMPOSITES THERMODURCI**

[72] WORRALL, CHRIS, GB  
[72] SALAMAT-ZADEH, FARSHAD, GB  
[72] TRAUDIA, ABDERRAZAK, SA  
[72] AL SHAHRANI, ABDULLAH, SA  
[72] AL NASSER, WALEED, SA  
[72] VATOPOULOS, KONSTANTINOS, NL  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2023-06-19  
[86] 2021-12-17 (PCT/US2021/064133)  
[87] (WO2022/133272)  
[30] US (63/126,712) 2020-12-17  
[30] US (17/644,194) 2021-12-14

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[21] **3,202,836**  
[13] A1

[51] **Int.Cl. B63B 35/44 (2006.01) F03D 13/25 (2016.01) B63B 39/00 (2006.01) B63B 39/04 (2006.01) B63B 43/04 (2006.01) E02D 27/52 (2006.01)**

[25] EN

[54] **A SYSTEM FOR MOTION DAMPING OF A FLOATING MARINE STRUCTURE, AN ARRANGEMENT, A METHOD AND USE OF SUCH SYSTEM**

[54] **SYSTEME D'AMORTISSEMENT DE MOUVEMENT D'UNE STRUCTURE MARITIME FLOTTANTE, ARRANGEMENT, PROCEDE ET UTILISATION D'UN TEL SYSTEME**

[72] REIERSDAL, CAY, NO  
[71] NORTH INNOVATION AS, NO  
[85] 2023-06-19  
[86] 2021-12-21 (PCT/NO2021/050277)  
[87] (WO2022/146142)  
[30] NO (20210005) 2021-01-04

[21] **3,202,837**  
[13] A1

[51] **Int.Cl. A63H 33/18 (2006.01)**

[25] EN

[54] **TOY WATER BALL**

[54] **JOUET DE BALLE D'EAU**

[72] CHEN, YUNFENG, CN  
[71] DONGGUAN SAIENCHUANGKE TECHNOLOGY CO., LTD, CN  
[85] 2023-06-19  
[86] 2021-01-20 (PCT/CN2021/072888)  
[87] (WO2022/134251)  
[30] CN (202011567478.4) 2020-12-25

[21] **3,202,838**  
[13] A1

[51] **Int.Cl. B01J 4/00 (2006.01) B01J 10/00 (2006.01) B01J 19/26 (2006.01)**

[25] FR

[54] **JET ENGINE LIQUID/GAS OLIGOMERIZATION COMPRISING A DOUBLE GAS/LIQUID FLOW VALVE**

[54] **REACTEUR GAZ/LIQUIDE D'OLIGOMERISATION COMPRENANT UN DOUBLE DISTRIBUTEUR GAZ/LIQUIDE**

[72] RAYNAL, LUDOVIC, FR  
[72] VONNER, ALEXANDRE, FR  
[72] MAXIMIANO RAIMUNDO, PEDRO, FR  
[71] IFP ENERGIES NOUVELLES, FR  
[85] 2023-06-19  
[86] 2021-12-14 (PCT/EP2021/085590)  
[87] (WO2022/136013)  
[30] FR (2014021) 2020-12-23

[21] **3,202,839**  
[13] A1

[51] **Int.Cl. B01J 20/24 (2006.01)**

[25] EN

[54] **SUBSTRATE FOR DIFFUSING VOLATILE SUBSTANCES**

[54] **SUBSTRAT POUR LA DIFFUSION DE SUBSTANCES VOLATILES**

[72] LUQUE VERA, SERGIO, ES  
[72] SANCHO MARZO, ALBERTO JOSE, ES  
[72] GARCIA SUBIRATS, MARIA, ES  
[72] ALONSO CANADAS, DAVID, ES  
[71] ZOBELE HOLDING SPA, IT  
[85] 2023-06-19  
[86] 2021-12-23 (PCT/EP2021/087459)  
[87] (WO2022/144294)  
[30] ES (P202031303) 2020-12-28

[21] **3,202,840**  
[13] A1

[51] **Int.Cl. H02G 5/10 (2006.01) H05K 7/20 (2006.01)**

[25] EN

[54] **BUSBAR ASSEMBLY FOR IMMERSION COOLING**

[54] **ENSEMBLE BARRE OMNIBUS POUR REFROIDISSEMENT PAR IMMERSION**

[72] LAU, KAR-WING, CN  
[71] LIQUIDSTACK HOLDING B.V., NL  
[85] 2023-06-19  
[86] 2021-07-12 (PCT/EP2021/069381)  
[87] (WO2022/152411)  
[30] US (17/148,776) 2021-01-14

[21] **3,202,841**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61P 7/02 (2006.01) A61P 9/08 (2006.01) A61P 9/10 (2006.01) A61P 9/12 (2006.01) A61P 27/06 (2006.01)**

[25] EN

[54] **SALT FORM OF ISOQUINOLINONE TYPE COMPOUND AS ROCK INHIBIT AND PREPARATION METHOD THEREFOR**

[54] **FORME DE SEL D'UN COMPOSE DE TYPE ISOQUINOLINONE SERVANT D'INHIBITEUR DE ROCK ET SON PROCEDE DE PREPARATION**

[72] GE, JIAN, CN  
[72] WANG, YANDONG, CN  
[72] LIU, YIZHI, CN  
[72] WU, LINGYUN, CN  
[72] YOU, XU, CN  
[72] XIAO, ZHEMING, CN  
[72] CHEN, SHUHUI, CN  
[71] GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., CN  
[71] OCUSUN OPHTHALMIC PHARMACEUTICAL (GUANGZHOU) CO., LTD., CN  
[85] 2023-06-19  
[86] 2021-12-21 (PCT/CN2021/140206)  
[87] (WO2022/135421)  
[30] CN (202011521011.6) 2020-12-21

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[21] **3,202,845**  
[13] A1

[51] **Int.Cl. B64D 37/00 (2006.01) F24V 40/00 (2018.01) B64D 33/00 (2006.01) C01B 3/04 (2006.01) F02C 3/02 (2006.01) F02C 3/20 (2006.01) F02C 7/22 (2006.01) F02C 7/224 (2006.01) F02M 25/12 (2006.01) F02M 27/00 (2006.01) F02M 33/00 (2006.01)**

[25] EN

[54] **A ZERO-EMISSION JET ENGINE EMPLOYING A DUAL-FUEL MIX OF AMMONIA AND HYDROGEN USING A WAVE ROTOR REFORMER**

[54] **MOTEUR A REACTION A EMISSION NULLE EMPLOYANT UN MELANGE COMBUSTIBLE DOUBLE D'AMMONIAC ET D'HYDROGENE UTILISANT UN REFORMEUR A ROTOR ET A ONDES**

[72] AKBARI, PEJMAN, US  
[72] TUCHLER, STEFAN, GB  
[71] NEW WAVE HYDROGEN, INC., CA  
[85] 2023-06-19  
[86] 2021-12-13 (PCT/CA2021/051789)  
[87] (WO2022/126248)  
[30] US (63/127,614) 2020-12-18  
[30] US (63/193,400) 2021-05-26  
[30] US (63/193,407) 2021-05-26  
[30] US (17/545,771) 2021-12-08

[21] **3,202,846**  
[13] A1

[51] **Int.Cl. A61B 17/32 (2006.01)**

[25] EN

[54] **ULTRASONIC SCALPEL BLADE HEAD**

[54]

[72] YAN, ZHONGYU, CN  
[72] WANG, LEI, CN  
[72] LIU, ZHENZHONG, CN  
[72] LUO, WEI, CN  
[71] INNOLCON MEDICAL TECHNOLOGY (SUZHOU) CO., LTD., CN  
[85] 2023-06-19  
[86] 2022-04-28 (PCT/CN2022/089894)  
[87] (WO2022/188897)  
[30] CN (202110249743.2) 2021-03-08

[21] **3,202,847**  
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) B60W 60/00 (2020.01) B63G 8/14 (2006.01) B64C 39/02 (2023.01)**

[25] EN

[54] **SYSTEM FOR BALANCING ENERGY SOURCE EXPLORATION AND OBSERVATION TIME OF AUTONOMOUS SENSING VEHICLES**

[54] **SYSTEME D'EQUILIBRAGE DE L'EXPLORATION DE SOURCE D'ENERGIE ET DE TEMPS D'OBSERVATION DE VEHICULES DE DETECTION AUTONOMES**

[72] RAHBARNIA, FARHAD, CA  
[72] BOROWCZYK, ALEXANDRE, CA  
[72] LANGELAAN, JACOB WILLEM, US  
[71] SHEARWATER AEROSPACE INC., CA  
[85] 2023-06-19  
[86] 2021-12-22 (PCT/CA2021/051871)  
[87] (WO2022/133605)  
[30] US (63/130,308) 2020-12-23

[21] **3,202,859**  
[13] A1

[51] **Int.Cl. B63B 35/03 (2006.01) B63B 35/04 (2006.01) E21B 17/01 (2006.01) E21B 19/22 (2006.01)**

[25] EN

[54] **EQUIPMENT AND METHOD FOR RECOVERING FLEXIBLE PIPES WITHOUT THE USE OF SPECIAL VESSELS**

[54] **EQUIPEMENT ET PROCEDE POUR LE RAMASSAGE DE CONDUITS FLEXIBLES SANS UTILISATION D'EMBARCATIONS SPECIALES**

[72] FIORENZA DE LIMA, HENRI, BR  
[72] GERALDO PAPPEN, GUSTAVO, BR  
[71] PETROLEO BRASILEIRO S.A., BR  
[85] 2023-06-20  
[86] 2021-11-25 (PCT/BR2021/050516)  
[87] (WO2022/133559)  
[30] BR (BR 10 2020 026297 1) 2020-12-21

[21] **3,202,863**  
[13] A1

[51] **Int.Cl. B62D 21/02 (2006.01) B62D 21/09 (2006.01)**

[25] EN

[54] **VEHICLE FRAME RAILS AND METHODS OF ASSEMBLING VEHICLE FRAME RAILS**

[54] **RAILS DE CHASSIS DE VEHICULE ET PROCEDES D'ASSEMBLAGE DE RAILS DE CHASSIS DE VEHICULE**

[72] SPEHAR, JEFFREY, US  
[72] POPARAD, HARITON, US  
[72] CUTSHALL, MARK, US  
[72] MCNALLY, JOHN, US  
[71] AM GENERAL LLC, US  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/US2021/064562)  
[87] (WO2022/140355)  
[30] US (17/128,280) 2020-12-21

[21] **3,202,864**  
[13] A1

[51] **Int.Cl. G21B 1/13 (2006.01)**

[25] EN

[54] **PLASMA-FACING COMPONENT COOLING**

[54] **REFROIDISSEMENT DE COMPOSANT FAISANT FACE AU PLASMA**

[72] BAMBER, ROB, GB  
[71] TOKAMAK ENERGY LTD, GB  
[85] 2023-06-20  
[86] 2021-12-20 (PCT/EP2021/086903)  
[87] (WO2022/136324)  
[30] GB (2020283.4) 2020-12-21



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[21] **3,202,874**  
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) A61K 35/17 (2015.01)**

[25] EN

[54] **PEPTIDE MARKERS TO TRACK GENETICALLY ENGINEERED CELLS**

[54] **MARQUEURS PEPTIDIQUES POUR SUIVRE DES CELLULES GENETIQUEMENT MODIFIEES**

[72] LINNEMANN, CARSTEN, NL  
[72] KUILMAN, THOMAS, NL  
[72] BENDLE, GAVIN M., NL  
[72] VAN HEIJST, JEROEN W.J., NL  
[72] KONG, XIANGJUN, NL  
[72] EGGERMONT, LOEK JOSEPHUS, NL  
[71] NEOGENE THERAPEUTICS B.V., NL  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/US2021/073057)  
[87] (WO2022/140774)  
[30] US (63/129,480) 2020-12-22  
[30] US (63/170,196) 2021-04-02

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[21] **3,202,875**  
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61P 35/00 (2006.01) C07K 14/195 (2006.01) C07K 16/28 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **COMPLEX OF ANTI-IL-4R ANTIBODY OR ANTIGEN-BINDING FRAGMENT THEREOF AND MEDICAL USE THEREOF**

[54] **COMPLEXE D'ANTICORPS ANTI-IL-4R OU FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI ET UTILISATION MEDICALE ASSOCIEE**

[72] WANG, HUAN, CN  
[72] LIN, YUAN, CN  
[72] TANG, YUCHENG, CN  
[72] KE, KE, CN  
[72] LIN, KAN, CN  
[72] LIAO, CHENG, CN  
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN  
[71] SHANGHAI SHENGGDI PHARMACEUTICAL CO., LTD., CN  
[85] 2023-06-20  
[86] 2021-12-22 (PCT/CN2021/140310)  
[87] (WO2022/135441)  
[30] CN (202011529235.1) 2020-12-22

[21] **3,202,880**  
[13] A1

[51] **Int.Cl. B60L 53/16 (2019.01) B60L 53/18 (2019.01)**

[25] EN

[54] **CHARGING CABLE AND METHOD FOR CHARGING AN ELECTRIC VEHICLE**

[54] **CABLE DE CHARGE ET PROCEDE POUR CHARGER UN VEHICULE ELECTRIQUE**

[72] ERNI, CHRISTOPH, CH  
[71] JUICE TECHNOLOGY AG, CH  
[85] 2023-06-20  
[86] 2021-12-16 (PCT/EP2021/086215)  
[87] (WO2022/136116)  
[30] DE (10 2020 134 489.9) 2020-12-21

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[21] **3,202,882**  
[13] A1

[51] **Int.Cl. C08L 23/14 (2006.01) C08L 23/08 (2006.01)**

[25] EN

[54] **POLYPROPYLENE BLEND**

[54] **MELANGE DE POLYPROPYLENE**

[72] GORGERIN, MICHEL, BE  
[72] LIBOTTE, ANNICK, BE  
[71] INEOS EUROPE AG, CH  
[85] 2023-06-20  
[86] 2021-12-16 (PCT/EP2021/086310)  
[87] (WO2022/136131)  
[30] EP (20216031.3) 2020-12-21

[21] **3,202,884**  
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/525 (2010.01) H01M 4/02 (2006.01)**

[25] EN

[54] **LITHIUM NICKEL-BASED COMPOSITE OXIDE AS A POSITIVE ELECTRODE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM-ION BATTERIES**

[54] **OXYDE COMPOSITE A BASE DE LITHIUM-NICKEL EN TANT QUE MATERIAU ACTIF D'ELECTRODE POSITIVE POUR BATTERIES AU LITHIUM-ION RECHARGEABLES**

[72] JUNG, KYUNGSUB, KR  
[72] BLANGERO, MAXIME, KR  
[72] KARAKULINA, OLESIA, KR  
[72] RYU, WOON-HYOUNG, KR  
[72] KWON, JI-YEONG, KR  
[71] UMICORE, BE  
[71] UMICORE KOREA LTD., KR  
[85] 2023-06-20  
[86] 2021-10-26 (PCT/EP2021/079617)  
[87] (WO2022/135771)  
[30] EP (20215924.0) 2020-12-21

[21] **3,202,889**  
[13] A1

[51] **Int.Cl. A61K 38/46 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR SITE-DIRECTED MUTAGENESIS**

[54] **COMPOSITIONS ET PROCEDES DE MUTAGENESE DIRIGEE SUR SITE**

[72] JARJOUR, JORDAN, US  
[72] KROSTAG, ANNE-RACHEL, US  
[71] 2SEVENTY BIO, INC., US  
[85] 2023-06-20  
[86] 2021-12-16 (PCT/US2021/063771)  
[87] (WO2022/140150)  
[30] US (63/128,391) 2020-12-21

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[21] **3,202,890**  
[13] A1

[51] **Int.Cl. A01H 1/04 (2006.01) A01H 6/28 (2018.01) C12Q 1/6895 (2018.01) C07K 14/415 (2006.01)**

[25] EN

[54] **MARKER-ASSISTED BREEDING IN CANNABIS PLANTS**

[54] **SELECTION DE PLANTES DE CANNABIS ASSISTEE PAR MARQUEURS**

[72] BARRERA, DANIEL, US  
[72] CRISWELL, ADAM, US  
[72] MYRVOLD, JON, US  
[72] BOBZIN, STEVE, US  
[72] DE FRIEL, JOHN, US  
[71] CENTRAL COAST AGRICULTURE, INC., US  
[85] 2023-06-20  
[86] 2022-01-28 (PCT/US2022/070402)  
[87] (WO2022/165507)  
[30] US (63/142,906) 2021-01-28

[21] **3,202,896**  
[13] A1

[51] **Int.Cl. G06N 3/04 (2023.01) G06N 3/08 (2023.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR IMPROVED DEEP-LEARNING MODELS**

[54] **PROCEDES ET SYSTEMES POUR DES MODELES D'APPRENTISSAGE PROFOND AMELIORES**

[72] HAWKINS, PETER, US  
[72] ZHANG, WEN, US  
[72] ATWAL, GURINDER, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2023-06-20  
[86] 2022-01-07 (PCT/US2022/011562)  
[87] (WO2022/150556)  
[30] US (63/135,265) 2021-01-08

[21] **3,202,899**  
[13] A1

[51] **Int.Cl. A61K 8/19 (2006.01) A61K 8/21 (2006.01) A61K 8/24 (2006.01) A61K 8/55 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS ET PROCEDES DE SOINS BUCCODENTAIRES**

[72] MYERS, CARL, US  
[72] XU, GUOFENG, US  
[72] ZHANG, SHAOYI, US  
[72] TANG, SAIDE, US  
[71] COLGATE-PALMOLIVE COMPANY, US  
[85] 2023-06-20  
[86] 2021-12-20 (PCT/US2021/064401)  
[87] (WO2022/140280)  
[30] US (63/128,671) 2020-12-21

[21] **3,202,894**  
[13] A1

[51] **Int.Cl. D21H 17/37 (2006.01)**

[25] EN

[54] **PROCESS FOR MANUFACTURING PAPER OR CARDBOARD**

[54] **PROCEDE DE FABRICATION DE PAPIER OU DE CARTON**

[72] BARRIERE, CYRIL, FR  
[72] MARTEL, BASTIEN, FR  
[71] SNF GROUP, FR  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/FR2021/052418)  
[87] (WO2022/136794)  
[30] FR (FR2013917) 2020-12-22

[21] **3,202,897**  
[13] A1

[51] **Int.Cl. A61K 31/095 (2006.01) A61P 1/16 (2006.01) A61P 43/00 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **USE OF CELL TURNOVER FACTORS FOR INCREASING TISSUE REGENERATION**

[54] **UTILISATION DE FACTEURS DE RENOUVELLEMENT CELLULAIRE POUR ACCROITRE LA REGENERESCENCE TISSULAIRE**

[72] GOUGH, PETER JOSEPH, US  
[72] SCHMIDT, DARBY RYE, US  
[72] KUTILEK, VICTORIA DIANE, US  
[72] BARSOTTI, ANTHONY MICHAEL, US  
[72] PUSAPATI, RAJU VARAHA LAXMI N., US  
[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/US2021/064710)  
[87] (WO2022/140457)  
[30] US (63/128,530) 2020-12-21

[21] **3,202,900**  
[13] A1

[51] **Int.Cl. C08G 18/00 (2006.01) C08G 18/16 (2006.01) C08G 18/76 (2006.01)**

[25] EN

[54] **THERMOPLASTIC POLYOXAZOLIDINONE HAVING A HIGH TEMPERATURE STABILITY**

[54] **POLYOXAZOLIDINONE THERMOPLASTIQUE AYANT UNE STABILITE A HAUTE TEMPERATURE**

[72] ELING, BEREND, DE  
[72] AUFFARTH, STEFAN, DE  
[72] QUELL, AGGELIKI, DE  
[72] WEBER, MARTIN, DE  
[71] BASF SE, DE  
[85] 2023-06-20  
[86] 2021-12-15 (PCT/EP2021/085860)  
[87] (WO2022/136046)  
[30] EP (20215909.1) 2020-12-21

[21] **3,202,895**  
[13] A1

[51] **Int.Cl. H01M 50/244 (2021.01)**

[25] EN

[54] **ELECTRONIC DEVICE**

[54] **DISPOSITIF ELECTRONIQUE**

[72] WANG, FENG, CN  
[72] HUANG, LIANGLIANG, CN  
[72] WANG, JINGGUO, CN  
[72] GUO, ZIZHU, CN  
[72] LEI, YUDONG, CN  
[71] BYD COMPANY LIMITED, CN  
[85] 2023-06-20  
[86] 2021-12-09 (PCT/CN2021/136854)  
[87] (WO2022/135168)  
[30] CN (202023145684.4) 2020-12-23

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[21] **3,202,903**  
[13] A1

[51] **Int.Cl. F04B 35/00 (2006.01) F04B 39/00 (2006.01) F04B 39/10 (2006.01) F04B 39/12 (2006.01) F04B 49/06 (2006.01)**

[25] EN

[54] **REDUCED SIZE FLUID TRANSFER AND DEPRESSURIZATION APPARATUS, CONTROL, AND ASSOCIATED METHODS**

[54] **APPAREIL DE TRANSFERT DE FLUIDE ET DE DEPRESSURISATION DE TAILLE REDUITE, COMMANDE, ET PROCEDES ASSOCIES**

[72] SAHM, DOUGLAS A., US  
[72] DEPEW, CARSON, US  
[71] TPE MIDSTREAM LLC, US  
[85] 2023-06-20  
[86] 2021-12-29 (PCT/US2021/065527)  
[87] (WO2022/147136)  
[30] US (63/132,215) 2020-12-30  
[30] US (63/250,567) 2021-09-30

[21] **3,202,905**  
[13] A1

[51] **Int.Cl. A61M 5/178 (2006.01) G06Q 10/08 (2023.01) G16H 20/10 (2018.01) B01L 9/06 (2006.01) G01N 1/00 (2006.01) G06K 17/00 (2006.01) G06K 19/07 (2006.01) G21F 5/018 (2006.01)**

[25] EN

[54] **MEDICAL CONTAINER, SYSTEM AND METHOD FOR TRACKING DATA RELATING TO SAID MEDICAL CONTAINER**

[54] **RECIPIENT MEDICAL, SYSTEME ET PROCEDE DE SUIVI DE DONNEES SE RAPPORTANT AUDIT RECIPIENT MEDICAL**

[72] EUVRARD, NICOLAS, US  
[72] LEIBBRAND, ALFRED, FR  
[72] RIVIER, CEDRIC, FR  
[71] BECTON DICKINSON FRANCE, FR  
[85] 2023-06-20  
[86] 2022-01-04 (PCT/EP2022/050059)  
[87] (WO2022/148741)  
[30] EP (21305009.9) 2021-01-05

[21] **3,202,906**  
[13] A1

[51] **Int.Cl. A61K 8/19 (2006.01) A61K 8/21 (2006.01) A61K 8/24 (2006.01) A61K 8/44 (2006.01) A61P 9/12 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS ET METHODES DE SOINS BUCCO-DENTAIRES**

[72] SCHAEFFER-KORBYLO, LYNDSAY, US  
[72] MYERS, CARL, US  
[72] GOVINDARAJU, GOKUL, US  
[72] PAUL, REEBA, US  
[71] COLGATE-PALMOLIVE COMPANY, US  
[85] 2023-06-20  
[86] 2021-12-20 (PCT/US2021/064402)  
[87] (WO2022/140281)  
[30] US (63/128,678) 2020-12-21

[21] **3,202,908**  
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01)**

[25] EN

[54] **RADIOLABELLED ALPHA-V BETA-3 AND/OR ALPHA-V BETA-5 INTEGRINS ANTAGONIST FOR USE AS THERAGNOSTIC AGENT**

[54] **ANTAGONISTE D'INTEGRINES ALPHA-V BETA-3 ET/OU ALPHA-V BETA-5 RADIOMARQUE DESTINE A ETRE UTILISE EN TANT QU'AGENT THERAGNOSTIQUE**

[72] MUZIO, VALERIA, IT  
[72] WEGENER, ANTJE, CH  
[72] CAMERON, JOHN SCOTT, US  
[72] DE CARLI, FRANCESCO, IT  
[72] BARDINI, PAOLA, IT  
[72] MAGRI, ALESSANDRO, IT  
[72] ROSSETTO, MATTIA, IT  
[72] BARENGO, DANIELA, IT  
[71] ADVANCED ACCELERATOR APPLICATIONS INTERNATIONAL SA, CH  
[71] ADVANCED ACCELERATOR APPLICATIONS (ITALY) SRL, IT  
[71] NOVARTIS AG, CH  
[85] 2023-06-20  
[86] 2021-12-20 (PCT/EP2021/086885)  
[87] (WO2022/136317)  
[30] EP (20216053.7) 2020-12-21

[21] **3,202,909**  
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01)**

[25] EN

[54] **FORMULATIONS AND PROCESSES FOR CAR T CELL DRUG PRODUCTS**

[54] **FORMULATIONS ET PROCEDES POUR DES PRODUITS MEDICAMENTEUX A BASE DE CELLULES CAR-T**

[72] MEDI, MUNESWARA BABU, US  
[72] XU, ZHUOJIN, US  
[72] LEE, JUNG S., US  
[72] NI, YAJIN, US  
[72] LEONARD, MARK W., US  
[71] ALLOGENE THERAPEUTICS, INC., US  
[85] 2023-06-20  
[86] 2022-02-03 (PCT/US2022/015095)  
[87] (WO2022/169960)  
[30] US (63/145,235) 2021-02-03

[21] **3,202,910**  
[13] A1

[51] **Int.Cl. G07G 1/00 (2006.01)**

[25] EN

[54] **DRAWER CONTROL APPARATUS, DRAWER CONTROL METHOD, AND DRAWER CONTROL SYSTEM**

[54] **DISPOSITIF DE COMMANDE DE TIROIR, PROCEDE DE COMMANDE DE TIROIR ET SYSTEME DE COMMANDE DE TIROIR**

[72] MAKITA, RINA, JP  
[72] SUGIYAMA, YUICHI, JP  
[71] STAR MICRONICS CO., LTD., JP  
[85] 2023-06-20  
[86] 2021-12-01 (PCT/JP2021/044006)  
[87] (WO2022/145168)  
[30] JP (2020-218330) 2020-12-28

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[21] **3,202,911**  
[13] A1

[51] **Int.Cl. A23J 3/06 (2006.01) A23L 13/40 (2023.01) A23J 3/22 (2006.01) C07K 14/805 (2006.01)**

[25] EN

[54] **MEAT SUBSTITUTE COMPRISING ANIMAL MYOGLOBIN**

[54] **SUBSTITUT DE VIANDE COMPRENANT DE LA MYOGLOBINE ANIMALE**

[72] SANCTORUM, HERMES, BE

[72] DE JONG, ANDY, BE

[71] PALEO B.V., BE

[85] 2023-06-20

[86] 2021-12-30 (PCT/EP2021/087884)

[87] (WO2022/144434)

[30] EP (20218000.6) 2020-12-31

[30] EP (21174597.1) 2021-05-19

[21] **3,202,913**  
[13] A1

[51] **Int.Cl. F03G 3/00 (2006.01) H02J 15/00 (2006.01)**

[25] EN

[54] **ENERGY STORAGE SYSTEM WITH ELEVATOR LIFT SYSTEM**

[54] **SYSTEME DE STOCKAGE D'ENERGIE AVEC SYSTEME D'ASCENSEUR**

[72] PEDRETTI, ANDREA, US

[72] HANNI, ROLAND MARKUS, US

[71] ENERGY VAULT, INC., US

[85] 2023-06-20

[86] 2021-12-20 (PCT/US2021/073039)

[87] (WO2022/140764)

[30] US (63/130,573) 2020-12-24

[21] **3,202,914**  
[13] A1

[51] **Int.Cl. H01R 4/18 (2006.01) H01R 12/57 (2011.01) H01R 4/70 (2006.01) H05B 3/06 (2006.01) H05B 3/84 (2006.01)**

[25] EN

[54] **PANE WITH ELECTRIC CONNECTION ELEMENT**

[54] **VITRE A ELEMENT DE CONNEXION ELECTRIQUE**

[72] HELWER, KATJA, DE

[72] REUL, BERNHARD, DE

[72] RATEICZAK, MITJA, DE

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2023-06-20

[86] 2021-12-22 (PCT/EP2021/087413)

[87] (WO2022/148667)

[30] EP (21150437.8) 2021-01-06

[21] **3,202,916**  
[13] A1

[51] **Int.Cl. G16H 30/40 (2018.01) G06V 10/764 (2022.01)**

[25] EN

[54] **AUTOMATIC ANNOTATION OF CONDITION FEATURES IN MEDICAL IMAGES**

[54] **ANNOTATION AUTOMATIQUE DE CARACTERISTIQUES D'ETAT DANS DES IMAGES MEDICALES**

[72] CEROICI, CHRISTOPHER, CA

[72] KATCHINSKIY, NIR, CA

[71] PULSEMEDICA CORP., CA

[85] 2023-06-20

[86] 2021-12-21 (PCT/CA2021/051853)

[87] (WO2022/133590)

[30] CA (3,103,872) 2020-12-23

[21] **3,202,917**  
[13] A1

[51] **Int.Cl. C07D 487/10 (2006.01) C07D 487/20 (2006.01) C07D 491/107 (2006.01)**

[25] EN

[54] **SPIROCYCLIC COMPOUND AS KRAS-G12C INHIBITOR**

[54] **COMPOSE SPIROCYCLIQUE UTILISE EN TANT QU'INHIBITEUR DE KRAS-G12C**

[72] CHEN, XUXING, CN

[72] LI, JING, CN

[72] CHEN, YANHONG, CN

[72] ZHAO, ZHAO, CN

[71] SHANGHAI EUREGEN BIOPHARMA CO., LTD., CN

[71] SHANGHAI YOU LI BIOPHARMA CO., LTD., CN

[85] 2023-06-20

[86] 2021-12-23 (PCT/CN2021/140991)

[87] (WO2022/135546)

[30] CN (202011556213.4) 2020-12-25

[30] CN (202110619679.2) 2021-06-03

[21] **3,202,918**  
[13] A1

[51] **Int.Cl. A61L 9/12 (2006.01)**

[25] EN

[54] **SUBSTRATE FOR DIFFUSING VOLATILE SUBSTANCES**

[54] **SUBSTRAT POUR LA DIFFUSION DE SUBSTANCES VOLATILES**

[72] LUQUE VERA, SERGIO, ES

[72] SANCHO MARZO, ALBERTO JOSE, ES

[72] GARCIA SUBIRATS, MARIA, ES

[72] ALONSO CANADAS, DAVID, ES

[71] ZOBELE HOLDING, S.P.A., IT

[85] 2023-06-20

[86] 2021-12-22 (PCT/EP2021/087433)

[87] (WO2022/144290)

[30] ES (P202031304) 2020-12-28

[21] **3,202,922**  
[13] A1

[51] **Int.Cl. E04F 15/02 (2006.01) E04F 15/024 (2006.01)**

[25] EN

[54] **SUPPORT SYSTEM FOR RAISED FLOORS**

[54] **SYSTEME DE SUPPORT POUR PLANCHERS SURELEVES**

[72] CIPRIANI, ZENO, IT

[71] DAKOTA GROUP S.A.S. DI ZENO CIPRIANI & C., IT

[85] 2023-06-20

[86] 2021-12-20 (PCT/IB2021/062009)

[87] (WO2022/137073)

[30] IT (102020000031697) 2020-12-21

[21] **3,202,923**  
[13] A1

[51] **Int.Cl. G09B 27/00 (2006.01)**

[25] EN

[54] **VIDEO DISPLAY DEVICE**

[54] **DISPOSITIF D'AFFICHAGE VIDEO**

[72] HAYAKAWA, TETSUYA, JP

[71] SEGA TOYS CO., LTD., JP

[85] 2023-06-20

[86] 2022-01-13 (PCT/JP2022/000882)

[87] (WO2022/158364)

[30] JP (2021-006637) 2021-01-19

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[21] **3,202,926**  
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 31/7048 (2006.01) A61P 13/10 (2006.01)**

[25] EN

[54] **METHODS OF MONITORING DIGOXIN WITH CONCOMITANT USE OF VIBEGRON TO TREAT OVERACTIVE BLADDER**

[54] **PROCEDES DE SURVEILLANCE DE LA DIGOXINE AVEC UTILISATION CONCOMITANTE DE VIBEGRON POUR LE TRAITEMENT D'UNE VESSIE HYPERACTIVE**

[72] MUDD, JR. PAUL N., US

[71] UROVANT SCIENCES GMBH, CH

[85] 2023-06-20

[86] 2021-12-22 (PCT/IB2021/062208)

[87] (WO2022/137178)

[30] US (63/129,474) 2020-12-22

[21] **3,202,928**  
[13] A1

[51] **Int.Cl. F16K 31/68 (2006.01) F01P 7/16 (2006.01)**

[25] EN

[54] **THERMOSTAT DEVICE**

[54] **DISPOSITIF THERMOSTAT**

[72] KUMASHIRO, TSUYOSHI, JP

[71] NIPPON THERMOSTAT CO., LTD., JP

[85] 2023-06-20

[86] 2021-09-27 (PCT/JP2021/035254)

[87] (WO2022/137687)

[30] JP (2020-211952) 2020-12-22

[21] **3,202,930**  
[13] A1

[51] **Int.Cl. A61L 2/18 (2006.01) A61L 2/20 (2006.01) A61L 2/24 (2006.01)**

[25] EN

[54] **A METHOD AND A SYSTEM FOR ADJUSTING A CYCLE TIME OF A TREATMENT PROCESS FOR AN OBJECT**

[54] **PROCEDE ET SYSTEME DE REGLAGE D'UN TEMPS DE CYCLE D'UN PROCESSUS DE TRAITEMENT POUR UN OBJET**

[72] FRYER, BENJAMIN, US

[71] ASP GLOBAL MANUFACTURING GMBH, CH

[85] 2023-06-20

[86] 2021-12-08 (PCT/IB2021/061465)

[87] (WO2022/136993)

[30] US (63/128,233) 2020-12-21

[21] **3,202,932**  
[13] A1

[51] **Int.Cl. A61K 8/19 (2006.01) A61K 8/24 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS COMPRISING STANNOUS PYROPHOSPHATE AND A WATER-SOLUBLE ALKALI METAL POLYPHOSPHATE, AND METHODS**

[54] **COMPOSITIONS DE SOINS BUCCAUX COMPRENANT DU PYROPHOSPHATE STANNEUX ET UN POLYPHOSPHATE DE METAL ALCALIN SOLUBLE DANS L'EAU ET PROCEDES**

[72] GOVINDARAJU, GOKUL, US

[72] MYERS, CARL, US

[72] SCHAEFFER-KORBYLO, LYNDASAY, US

[71] COLGATE PALMOLIVE COMPANY, US

[85] 2023-06-20

[86] 2021-12-21 (PCT/US2021/064587)

[87] (WO2022/140368)

[21] **3,202,933**  
[13] A1

[51] **Int.Cl. A61K 31/728 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **ANTIVIRAL AGENTS FOR PREVENTION OR TREATMENT OF PATHOLOGIES CAUSED BY ALPHA- AND/OR BETA-CORONAVIRUSES**

[54] **AGENTS ANTIVIRAUX POUR LA PREVENTION OU LE TRAITEMENT DE PATHOLOGIES PROVOQUEES PAR DES ALPHA-CORONAVIRUS ET/OU DES BETA-CORONAVIRUS**

[72] PIZZOCARO, CARLO, IT

[71] FIDIA FARMACEUTICI S.P.A., IT

[85] 2023-06-20

[86] 2021-12-22 (PCT/IB2021/062161)

[87] (WO2022/137147)

[30] IT (102020000032243) 2020-12-23

[21] **3,202,938**  
[13] A1

[51] **Int.Cl. A23K 20/142 (2016.01) A23K 20/158 (2016.01) A23K 20/163 (2016.01) A23K 50/40 (2016.01)**

[25] EN

[54] **PET FOOD COMPOSITIONS**

[54] **COMPOSITIONS ALIMENTAIRES POUR ANIMAUX DE COMPAGNIE**

[72] JACKSON, MATTHEW, US

[72] JEWELL, DENNIS, US

[71] HILL'S PET NUTRITION, INC., US

[85] 2023-06-20

[86] 2021-12-19 (PCT/US2021/064253)

[87] (WO2022/140210)

[30] US (63/129,146) 2020-12-22

[21] **3,202,934**  
[13] A1

[51] **Int.Cl. H04W 72/04 (2023.01)**

[25] EN

[54] **QCL RELATIONSHIP DETERMINATION METHOD AND DEVICE, NODE, AND STORAGE MEDIUM**

[54] **PROCEDE ET DISPOSITIF DE DETERMINATION DE RELATION QCL, N?UD ET SUPPORT DE STOCKAGE**

[72] YE, XINQUAN, CN

[72] ZHANG, SHUJUAN, CN

[72] CHEN, YIJIAN, CN

[72] YU, GUANGHUI, CN

[72] LU, ZHAOHUA, CN

[71] ZTE CORPORATION, CN

[85] 2023-06-20

[86] 2021-12-24 (PCT/CN2021/141204)

[87] (WO2022/143459)

[30] CN (202011633396.5) 2020-12-31

[21] **3,202,937**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/20 (2006.01) C07K 14/005 (2006.01) C12N 15/86 (2006.01) G01N 33/569 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **AFRICAN SWINE FEVER (ASF) VIRUS VACCINES**

[54] **VACCINS CONTRE LE VIRUS DE LA PESTE PORCINE AFRICAINE (PPA)**

[72] YOUNG, ALAN, US

[71] VST LLC DBA MEDGENE LABS, US

[85] 2023-06-20

[86] 2021-12-21 (PCT/US2021/064580)

[87] (WO2022/140364)

[30] US (63/128,318) 2020-12-21

[21] **3,202,938**  
[13] A1

[51] **Int.Cl. A23K 20/142 (2016.01) A23K 20/158 (2016.01) A23K 20/163 (2016.01) A23K 50/40 (2016.01)**

[25] EN

[54] **PET FOOD COMPOSITIONS**

[54] **COMPOSITIONS ALIMENTAIRES POUR ANIMAUX DE COMPAGNIE**

[72] JACKSON, MATTHEW, US

[72] JEWELL, DENNIS, US

[71] HILL'S PET NUTRITION, INC., US

[85] 2023-06-20

[86] 2021-12-19 (PCT/US2021/064253)

[87] (WO2022/140210)

[30] US (63/129,146) 2020-12-22

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[21] **3,202,939**  
[13] A1

[51] **Int.Cl. G06Q 10/00 (2023.01)**  
[25] EN  
[54] **NETWORK-BASED AUTOMATIC INVENTORY CONTROL AND PURCHASING SYSTEM FOR INDIRECT MATERIALS USING INTERACTIVE ELECTRONIC SHELF LABELS**  
[54] **SYSTEME DE COMMANDE D'INVENTAIRE ET D'ACHAT AUTOMATIQUE BASE SUR UN RESEAU POUR DES MATERIAUX INDIRECTS UTILISANT DES ETIQUETTES ELECTRONIQUES INTERACTIVES**  
[72] REYNOLDS, MICHAEL, US  
[71] SUPPLYPRO, INC., US  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/US2021/064744)  
[87] (WO2022/140478)  
[30] US (63/128,566) 2020-12-21

[21] **3,202,942**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**  
[25] EN  
[54] **ANTI-IL1RAP ANTIBODY**  
[54] **ANTICORPS ANTI-IL1RAP**  
[72] LIBERG, DAVID, SE  
[72] MILLRUD, CAMILLA RYDBERG, SE  
[72] BIRKEDAL, GABRIEL SVENSSON, SE  
[72] RATTIK, SARA, SE  
[72] SJOSTROM, KJELL, SE  
[72] VON WACHENFELDT, KARIN, SE  
[72] GRONBERG, CAITRIONA, SE  
[71] CANTARGIA AB, SE  
[71] CANTARGIA AB, SE  
[85] 2023-06-20  
[86] 2021-12-22 (PCT/EP2021/087338)  
[87] (WO2022/136569)  
[30] EP (20216926.4) 2020-12-23  
[30] GB (2105933.2) 2021-04-26  
[30] EP (21212368.1) 2021-12-03

[21] **3,202,944**  
[13] A1

[51] **Int.Cl. C07D 513/04 (2006.01)**  
[25] EN  
[54] **PYRAZOLOTHIAZOLE CARBOXAMIDES AND THEIR USES AS PDGFR INHIBITORS**  
[54] **PYRAZOLOTHIAZOLE CARBOXAMIDES ET LEURS UTILISATIONS EN TANT QU'INHIBITEURS DE PDGFR**  
[72] BAUMAN, DAVID, US  
[72] LIU, ZHIJIE, US  
[72] LU, TIANBAO, US  
[72] ZHU, BIN, US  
[72] NGUYEN, VAN, US  
[72] CAVITT, MARCHELLO, US  
[72] HAWKINS, MICHAEL J., US  
[71] ACTELION PHARMACEUTICALS LTD, CH  
[85] 2023-06-20  
[86] 2021-12-22 (PCT/EP2021/087215)  
[87] (WO2022/136509)  
[30] US (63/130,135) 2020-12-23  
[30] US (63/245,587) 2021-09-17

[21] **3,202,946**  
[13] A1

[51] **Int.Cl. A23K 20/158 (2016.01) A23K 20/142 (2016.01) A23K 20/163 (2016.01) A23K 50/40 (2016.01)**  
[25] EN  
[54] **PET FOOD COMPOSITIONS**  
[54] **COMPOSITIONS ALIMENTAIRES POUR ANIMAUX DE COMPAGNIE**  
[72] JEWELL, DENNIS, US  
[72] JACKSON, MATTHEW, US  
[71] HILL'S PET NUTRITION, INC., US  
[85] 2023-06-20  
[86] 2021-12-19 (PCT/US2021/064254)  
[87] (WO2022/140211)  
[30] US (63/129,325) 2020-12-22

[21] **3,202,947**  
[13] A1

[51] **Int.Cl. A61K 31/17 (2006.01) C07C 275/24 (2006.01) C07C 275/36 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR INDUCING DEFECACTION**  
[54] **COMPOSITIONS ET METHODES POUR INDUIRE UNE DEFECACTION**  
[72] THOR, KARL BRUCE, US  
[72] MARSON, LESLEY, US  
[71] DIGNIFY THERAPEUTICS, LLC, US  
[85] 2023-06-20  
[86] 2022-01-13 (PCT/US2022/012220)  
[87] (WO2022/155273)  
[30] US (63/137,778) 2021-01-15

[21] **3,202,948**  
[13] A1

[51] **Int.Cl. A46B 5/00 (2006.01) A61C 17/00 (2006.01)**  
[25] EN  
[54] **ORAL CARE IMPLEMENT, HANDLE THEREOF, AND ORAL CARE REFILL HEAD THEREFOR**  
[54] **INSTRUMENT DE SOINS BUCCO-DENTAIRES, POIGNEE ASSOCIEE ET TETE DE RECHARGE POUR SOINS BUCCAUX ASSOCIEE**  
[72] JI, YANMEI, CN  
[72] DING, XIANGJI, CN  
[72] SPROSTA, AL AQUANZA, US  
[72] JIMENEZ, EDUARDO, US  
[71] COLGATE-PALMOLIVE COMPANY, US  
[85] 2023-06-20  
[86] 2020-12-22 (PCT/CN2020/138181)  
[87] (WO2022/133696)

[21] **3,202,949**  
[13] A1

[51] **Int.Cl. D01F 6/80 (2006.01) D01F 1/07 (2006.01)**  
[25] EN  
[54] **METHOD FOR MANUFACTURING POLYAMIDE FIBERS**  
[54] **PROCEDE DE FABRICATION DE FIBRES DE POLYAMIDE**  
[72] BESCH, RYAN M., US  
[72] FAIRGRIEVE, STUART P., GB  
[72] MCSHEEHY, JR. BRENDAN, US  
[71] UNIVERSAL FIBERS, INC., US  
[85] 2023-06-20  
[86] 2022-02-17 (PCT/US2022/016768)  
[87] (WO2022/178107)  
[30] US (63/151,157) 2021-02-19

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[21] **3,202,950**  
[13] A1

[51] **Int.Cl. G01B 11/25 (2006.01)**  
[25] EN  
[54] **IMAGE PROJECTING SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES DE PROJECTION D'IMAGE**  
[72] ROHLER, DAVID, US  
[72] YE, DANWEI, US  
[72] KARNADI, DANIEL, US  
[72] IZEN, STEVE, US  
[72] SZPAK, JAMES EDWARD, US  
[71] DITTOPATTERNS LLC, US  
[85] 2023-06-20  
[86] 2021-11-11 (PCT/US2021/058984)  
[87] (WO2022/139974)  
[30] US (63/129,336) 2020-12-22  
[30] US (17/318,708) 2021-05-12  
[30] US (PCT/US2021/032021) 2021-05-12

[21] **3,202,953**  
[13] A1

[51] **Int.Cl. A23K 50/40 (2016.01) G01N 33/68 (2006.01)**  
[25] EN  
[54] **METHODS, KITS AND COMPOSITIONS FOR ASSESSING AND TREATING INTERSTITIAL CYSTITIS**  
[54] **METHODES, KITS ET COMPOSITIONS POUR L'EVALUATION ET LE TRAITEMENT DE LA CYSTITITE INTERSTITIELLE**  
[72] BADRI, DAYAKAR, US  
[72] CREECH, RENE, US  
[72] PANICKAR, KIRAN, US  
[71] HILL'S PET NUTRITION, INC., US  
[85] 2023-06-20  
[86] 2021-12-19 (PCT/US2021/064252)  
[87] (WO2022/140209)  
[30] US (63/129,088) 2020-12-22

[21] **3,202,954**  
[13] A1

[51] **Int.Cl. A62B 23/06 (2006.01) A61F 5/08 (2006.01)**  
[25] EN  
[54] **NOSE PLUG WITH ANTI-MICROBIAL ACTIVITY**  
[54] **BOUCHON DE NEZ AYANT UNE ACTIVITE ANTIMICROBIENNE**  
[72] LILJEFORS, ADRIAN, SE  
[71] NOSEOPTION AB, SE  
[85] 2023-06-20  
[86] 2021-12-16 (PCT/EP2021/086171)  
[87] (WO2022/136101)  
[30] SE (2051529-2) 2020-12-22

[21] **3,202,955**  
[13] A1

[51] **Int.Cl. C12P 7/02 (2006.01) C12P 7/625 (2022.01) C12P 7/40 (2006.01) C12P 7/62 (2022.01) C12P 13/04 (2006.01)**  
[25] EN  
[54] **SYSTEMS FOR CO-CULTURE OF RALSTONIA EUTROPHA STRAINS**  
[54] **SYSTEMES DE CO-CULTURE DE SOUCHES DE RALSTONIA EUTROPHA**  
[72] IBRAHIM, MOHAMMAD H.A., SE  
[71] BIOEXTRAX AB, SE  
[85] 2023-06-20  
[86] 2021-12-17 (PCT/EP2021/086623)  
[87] (WO2022/144195)  
[30] EP (20217789.5) 2020-12-30

[21] **3,202,957**  
[13] A1

[51] **Int.Cl. C07D 471/18 (2006.01) A61P 31/18 (2006.01)**  
[25] EN  
[54] **SUBSTITUTED PYRIDOTRIAZINE COMPOUNDS AND USES THEREOF**  
[54] **COMPOSES DE PYRIDOTRIAZINE SUBSTITUES ET LEURS UTILISATIONS**  
[72] CHU, HANG, US  
[72] GONZALEZ BUENROSTRO, ANA Z., US  
[72] GUO, HONGYAN, US  
[72] HAN, XIAOCHUN, US  
[72] HURTLEY, ANNA E., US  
[72] JIANG, LAN, US  
[72] LI, JIAYAO, US  
[72] LIN, DAVID W., US  
[72] MITCHELL, MICHAEL L., US  
[72] NADUTHAMBI, DEVAN, US  
[72] SCHWARZWALDER, GREGG M., US  
[72] SZEWCZYK, SUZANNE M., US  
[72] VON BARGEN, MATTHEW J., US  
[72] WU, QIAOYIN, US  
[72] YANG, HONG, US  
[72] ZHANG, JENNIFER R., US  
[71] GILEAD SCIENCES, INC., US  
[85] 2023-06-20  
[86] 2022-01-18 (PCT/US2022/012773)  
[87] (WO2022/159387)  
[30] US (63/139,237) 2021-01-19  
[30] US (63/190,461) 2021-05-19

[72] WU, QIAOYIN, US  
[72] YANG, HONG, US  
[72] ZHANG, JENNIFER R., US  
[71] GILEAD SCIENCES, INC., US  
[85] 2023-06-20  
[86] 2022-01-18 (PCT/US2022/012773)  
[87] (WO2022/159387)  
[30] US (63/139,237) 2021-01-19  
[30] US (63/190,461) 2021-05-19

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[13] A1

[51] **Int.Cl. A23J 3/26 (2006.01) A23K 40/25 (2016.01) A23K 50/48 (2016.01) A23J 3/22 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR PREPARING AN EXTRUDED PLANT-BASED FOOD PRODUCT**  
[54] **PROCEDE DE PREPARATION D'UN PRODUIT ALIMENTAIRE EXTRUDE A BASE DE PLANTES**  
[72] BETZ, REINHOLD WILLY, DE  
[72] HOEGG, ELISABETH, DE  
[72] PIBAROT, PATRICK, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2023-06-20  
[86] 2022-02-07 (PCT/EP2022/052840)  
[87] (WO2022/171557)  
[30] EP (21156888.6) 2021-02-12

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[13] A1

[51] **Int.Cl. C22B 3/16 (2006.01) C01B 25/30 (2006.01) C22B 3/44 (2006.01) C22B 26/12 (2006.01)**  
[25] EN  
[54] **RECOVERY OF METALS FROM MATERIALS CONTAINING LITHIUM AND IRON**  
[54] **RECUPERATION DE METAUX A PARTIR DE MATERIAUX CONTENANT DU LITHIUM ET DU FER**  
[72] GHAHREMAN, AHMAD, CA  
[72] MAHANDRA, HARSHIT, CA  
[72] CHOI, YEONUK, CA  
[71] QUEEN'S UNIVERSITY AT KINGSTON, CA  
[85] 2023-06-20  
[86] 2021-12-17 (PCT/CA2021/051835)  
[87] (WO2022/133585)  
[30] US (63/128,222) 2020-12-21

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[21] **3,202,963**  
[13] A1

[51] **Int.Cl. B64C 1/06 (2006.01) B64F 5/10 (2017.01)**  
[25] EN  
[54] **METHOD FOR THE MANUFACTURE OF A STRUCTURAL COMPONENT IN COMPOSITE MATERIAL REINFORCED WITH STIFFENING STRINGERS AND STRUCTURAL COMPONENT**  
[54] **PROCEDE POUR LA FABRICATION D'UN ELEMENT STRUCTUREL EN MATERIAU COMPOSITE RENFORCE PAR DES LONGERONS DE RAIDISSEMENT ET ELEMENT STRUCTUREL**  
[72] CORVAGLIA, STEFANO GIUSEPPE, IT  
[72] GALLO, NICOLA, IT  
[72] SERIO, ALESSANDRO, IT  
[71] LEONARDO SPA, IT  
[85] 2023-06-20  
[86] 2021-12-22 (PCT/IB2021/062160)  
[87] (WO2022/144699)  
[30] IT (102020000032490) 2020-12-28

[21] **3,202,965**  
[13] A1

[51] **Int.Cl. B25J 13/08 (2006.01)**  
[25] EN  
[54] **TOOL CHECKING DEVICE, TOOL CHECKING PROGRAM, AND TOOL CHECKING METHOD FOR ROBOT ARM**  
[54] **DISPOSITIF DE VERIFICATION D'OUTIL, PROGRAMME DE VERIFICATION D'OUTIL ET PROCEDE DE VERIFICATION D'OUTIL POUR BRAS DE ROBOT**  
[72] HIRAYAMA, JUNTA, JP  
[72] TOKUMOTO, MASARU, JP  
[72] YAMASHITA, TOMOKI, JP  
[72] KIMURA, KENICHIRO, JP  
[71] MAYEKAWA MFG. CO., LTD., JP  
[85] 2023-06-20  
[86] 2021-12-10 (PCT/JP2021/045548)  
[87] (WO2022/138236)  
[30] JP (2020-215843) 2020-12-24

[21] **3,202,966**  
[13] A1

[51] **Int.Cl. A61K 31/6615 (2006.01) A61P 9/10 (2006.01) A61P 9/14 (2006.01)**  
[25] EN  
[54] **CLINICAL DOSING SCHEDULE OF INOSITOL PHOSPHATE OLIGO(ETHYLENE GLYCOL) COMPOUNDS**  
[54] **SCHEMA POSOLOGIQUE CLINIQUE DE COMPOSES D'INOSITOL PHOSPHATE OLIGO(ETHYLENE GLYCOL)**  
[72] IVARSSON, MATTIAS EMANUEL, CH  
[71] VIFOR (INTERNATIONAL) AG, CH  
[85] 2023-06-20  
[86] 2022-01-26 (PCT/EP2022/051694)  
[87] (WO2022/161980)  
[30] EP (21153605.7) 2021-01-26

[21] **3,202,967**  
[13] A1

[51] **Int.Cl. A61B 5/03 (2006.01) A61B 17/34 (2006.01) A61M 13/00 (2006.01) A61M 39/22 (2006.01)**  
[25] EN  
[54] **LOW PRESSURE INSUFFLATION MANIFOLD ASSEMBLY FOR SURGICAL GAS DELIVERY SYSTEM**  
[54] **ENSEMBLE COLLECTEUR D'INSUFFLATION BASSE PRESSION POUR SYSTEME DE DISTRIBUTION DE GAZ CHIRURGICAL**  
[72] KOLTZ, MICHAEL JR., US  
[71] CONMED CORPORATION, US  
[85] 2023-06-20  
[86] 2022-01-20 (PCT/US2022/013063)  
[87] (WO2022/159546)  
[30] US (17/155,478) 2021-01-22  
[30] US (17/376,561) 2021-07-15  
[30] US (17/155,572) 2021-01-22

[21] **3,202,968**  
[13] A1

[51] **Int.Cl. B25J 13/08 (2006.01)**  
[25] EN  
[54] **TOOL CHECKING DEVICE, TOOL CHECKING PROGRAM, AND TOOL CHECKING METHOD FOR ROBOT ARM**  
[54] **DISPOSITIF, PROGRAMME ET PROCEDE DE VERIFICATION D'OUTIL POUR BRAS DE ROBOT**  
[72] HIRAYAMA, JUNTA, JP  
[72] TOKUMOTO, MASARU, JP  
[72] YAMASHITA, TOMOKI, JP  
[72] KIMURA, KENICHIRO, JP  
[71] MAYEKAWA MFG. CO., LTD., JP  
[85] 2023-06-20  
[86] 2021-12-10 (PCT/JP2021/045535)  
[87] (WO2022/138234)  
[30] JP (2020-215840) 2020-12-24

[21] **3,202,969**  
[13] A1

[51] **Int.Cl. G10L 19/002 (2013.01) G10L 19/032 (2013.01) G10L 21/038 (2013.01) G10L 25/00 (2013.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR UNIFIED TIME-DOMAIN / FREQUENCY DOMAIN CODING OF A SOUND SIGNAL**  
[54] **PROCEDE ET DISPOSITIF DE CODAGE DE DOMAINE TEMPOREL/DE DOMAINE FREQUENTIEL UNIFIE D'UN SIGNAL SONORE**  
[72] VAILLANCOURT, TOMMY, CA  
[72] MALENOVSKY, VLADIMIR, CZ  
[71] VOICEAGE CORPORATION, CA  
[85] 2023-06-20  
[86] 2022-01-05 (PCT/CA2022/050006)  
[87] (WO2022/147615)  
[30] US (63/135,171) 2021-01-08



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[13] A1

[51] **Int.Cl. A01K 11/00 (2006.01) H04W 4/029 (2018.01)**  
[25] EN  
[54] **LIVESTOCK MANAGEMENT SYSTEM**  
[54] **SYSTEME DE GESTION DE BETAIL**  
[72] BIFFERT, KEVIN, US  
[72] COSSETTE, MAXIMILLION, US  
[72] BERLINGER, STEVEN, US  
[72] CROWLEY, PETER, US  
[72] MEHRING, COLE, US  
[72] ALSLEBEN, KEITH, US  
[72] LOVE, BRAYDON, US  
[72] MORLOCK, BRIAN, US  
[72] BRINKMAN, CHAD, US  
[71] 701X INC., US  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/US2021/064611)  
[87] (WO2022/140385)  
[30] US (63/128,948) 2020-12-22

[21] **3,202,971**  
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PARSING REGULATORY AND OTHER DOCUMENTS FOR MACHINE SCORING**  
[54] **SYSTEME ET PROCEDE D'ANALYSE DE DOCUMENTS REGLEMENTAIRES ET AUTRES POUR NOTATION AUTOMATIQUE**  
[72] SMITH, TREVOR JEROME, US  
[72] RAFIQ, UMAIR, US  
[71] SOCIAL MARKET ANALYTICS, INC., US  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/US2021/064733)  
[87] (WO2022/140471)  
[30] US (63/128,571) 2020-12-21

[21] **3,202,972**  
[13] A1

[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/00 (2020.01)**  
[25] EN  
[54] **SIDEWALL-PUNCTURED HEATED TOBACCO PRODUCT**  
[54] **PRODUIT DE TABAC CHAUFFE A LA PAROI LATERALE PERFOREE**  
[72] LI, BIN, CN  
[72] WANG, SHUANG, CN  
[72] ZHANG, KE, CN  
[72] ZHANG, MINGJIAN, CN  
[72] HUANG, FENG, CN  
[72] FU, LILI, CN  
[72] ZHANG, QI, CN  
[72] DENG, NAN, CN  
[71] ZHENGZHOU TOBACCO RESEARCH INSTITUTE OF CNTC, CN  
[85] 2023-06-20  
[86] 2020-12-25 (PCT/CN2020/139302)  
[87] (WO2022/133982)

[21] **3,202,973**  
[13] A1

[51] **Int.Cl. B61C 9/50 (2006.01)**  
[25] EN  
[54] **REMOTE OPERATION OF A POWERED BURDEN RAIL CAR**  
[54] **FONCTIONNEMENT A DISTANCE D'UN WAGON PORTE-RAILS A CHARGE MOTORISEE**  
[72] DONNELLY, FRANK WEGNER, CA  
[72] MACIULEWICZ, TONY, US  
[72] WATSON, JOHN D., US  
[71] RHT RAIL HAUL TECHNOLOGIES CORP., CA  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/IB2021/000893)  
[87] (WO2022/136917)  
[30] US (63/128,621) 2020-12-21

[21] **3,202,975**  
[13] A1

[51] **Int.Cl. A47K 3/02 (2006.01) A47K 3/16 (2006.01) A47K 3/20 (2006.01) A47K 3/28 (2006.01)**  
[25] EN  
[54] **SHOWER BASE OR BATHTUB**  
[54] **RECEPTEUR DE DOUCHE OU BAIGNOIRE**  
[72] KUHN, MATTHEW, US  
[72] PORMENTILLA, BEDA ANGELO, US  
[72] KOLEKAR, NITIN S., US  
[72] PETERSON, COREY, US  
[72] STITT, JEFFREY LYN, US  
[71] AS AMERICA, INC., US  
[85] 2023-06-20  
[86] 2022-01-20 (PCT/US2022/013046)  
[87] (WO2022/159534)  
[30] US (63/140,162) 2021-01-21

[21] **3,202,976**  
[13] A1

[51] **Int.Cl. A23L 27/21 (2016.01) A23L 27/30 (2016.01) A23L 33/17 (2016.01) C07K 14/43 (2006.01)**  
[25] EN  
[54] **FLAVOR MODIFYING PROTEINS AND FOOD PRODUCTS COMPRISING THE SAME**  
[54] **PROTEINES MODIFICATRICES DE GOUT ET PRODUITS ALIMENTAIRES LES COMPRENANT**  
[72] SAMISH, ILAN, IL  
[72] KASS, ITAMAR, IL  
[72] HECHT, DALIT, IL  
[72] MARKO, SHMUEL, IL  
[72] ZUKER, INBAR, IL  
[71] AMAI PROTEINS LTD, IL  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/IB2021/062109)  
[87] (WO2022/137121)  
[30] US (63/128,207) 2020-12-21  
[30] US (63/174,550) 2021-04-14  
[30] US (63/223,608) 2021-07-20

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[21] **3,202,977**  
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/113 (2010.01) C12N 15/85 (2006.01) C12N 15/87 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR EPIGENETIC EDITING**

[54] **COMPOSITIONS ET METHODES POUR L'EDITION EPIGENETIQUE**

[72] MAEDER, MORGAN, US  
[72] FRIEDLAND, ARI, US  
[72] LINDER, SAMANTHA, US  
[72] MYER, VIC, US  
[71] CHROMA MEDICINE, INC., US  
[85] 2023-06-20  
[86] 2021-12-22 (PCT/US2021/064913)  
[87] (WO2022/140577)  
[30] US (63/129,283) 2020-12-22  
[30] US (63/280,452) 2021-11-17

[21] **3,202,978**  
[13] A1

[51] **Int.Cl. A61B 1/005 (2006.01) A61B 1/01 (2006.01) A61M 25/01 (2006.01) A61M 25/10 (2013.01)**

[25] EN

[54] **BODY CAVITY NAVIGATION DEVICES AND METHODS OF USE**

[54] **DISPOSITIFS DE NAVIGATION DE CAVITE CORPORELLE ET METHODES D'UTILISATION**

[72] ZHAO, YAN SHI, US  
[72] STONE, CORBETT W., US  
[72] DITROLIO, MATTHEW, US  
[72] ELBANNA, JAMIL NADER, US  
[71] DRIVE MEDICAL, INC., US  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/US2021/064730)  
[87] (WO2022/140468)  
[30] US (63/129,454) 2020-12-22

[21] **3,202,979**  
[13] A1

[51] **Int.Cl. B62J 1/10 (2006.01) B62J 1/08 (2006.01)**

[25] EN

[54] **MULTI-POSITION AND ORIENTATION SADDLE ATTACHMENT DEVICE**

[54] **DISPOSITIF DE FIXATION DE SELLE A POSITIONS ET ORIENTATIONS MULTIPLES**

[72] ADAMSON, COLIN, CA  
[72] DOLOTALLAS, NOEL, CA  
[71] DOLOTALLAS, NOEL, CA  
[85] 2023-06-20  
[86] 2021-12-21 (PCT/CA2021/051860)  
[87] (WO2022/133597)  
[30] US (63/129,405) 2020-12-22

[21] **3,202,980**  
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01)**

[25] EN

[54] **RESPIRATOR**

[54] **APPAREIL DE PROTECTION RESPIRATOIRE**

[72] MACKEAN, ERIN, CA  
[72] MACKEAN, ANDREW, CA  
[72] RIPLEY, SUSAN, CA  
[72] WARD, ALISTAIR, GB  
[72] WOOSTER, JAMES, GB  
[72] FORBES, ANDREW, GB  
[71] TAKAYA TECHNOLOGY INC., CA  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/CA2021/051877)  
[87] (WO2022/133608)  
[30] US (63/130,160) 2020-12-23  
[30] US (63/176,823) 2021-04-19

[21] **3,202,981**  
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01)**

[25] EN

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

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

[72] AESCHBACH, RODIN, CH  
[71] PHARMOTECH SA, CH  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/EP2021/087276)  
[87] (WO2022/136541)  
[30] EP (20217100.5) 2020-12-23

[21] **3,202,982**  
[13] A1

[51] **Int.Cl. A61L 27/38 (2006.01) A61K 35/39 (2015.01) A61L 27/20 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **TRANSPLANTATION DEVICE USING CHEMICALLY CROSSLINKED ALGINIC ACID**

[54] **DISPOSITIF DE TRANSPLANTATION FAISANT APPEL A DE L'ACIDE ALGINIQUE CHIMIQUEMENT RETICULE**

[72] SHIMODA, MASAYUKI, JP  
[72] AJIMA, KUMIKO, JP  
[72] FURUSAKO, SHOJI, JP  
[72] TSUDA, NAOTO, JP  
[71] MOCHIDA PHARMACEUTICALS CO., LTD., JP

[71] NATIONAL CENTER FOR GLOBAL HEALTH AND MEDICINE, JP

[85] 2023-06-21  
[86] 2020-12-22 (PCT/JP2020/047944)  
[87] (WO2022/137345)

[21] **3,202,983**  
[13] A1

[51] **Int.Cl. G16C 20/64 (2019.01) G06F 16/9038 (2019.01)**

[25] EN

[54] **INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING PROGRAM**

[54] **DISPOSITIF, PROCEDE ET PROGRAMME DE TRAITEMENT D'INFORMATIONS**

[72] YARIMIZU, HIROKAZU, JP  
[72] HIKIDA, YASUSHI, JP  
[71] FUJIFILM CORPORATION, JP  
[85] 2023-06-21  
[86] 2021-11-25 (PCT/JP2021/043214)  
[87] (WO2022/137968)  
[30] JP (2020-216936) 2020-12-25

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[21] **3,202,991**  
[13] A1

[51] **Int.Cl. C07C 45/50 (2006.01) B01F 23/232 (2022.01) B01F 25/313 (2022.01) B01F 25/314 (2022.01) B01F 25/53 (2022.01)**

[25] EN

[54] **HYDROFORMYLATION REACTION PROCESSES**

[54] **PROCEDES DE REACTION D'HYDROFORMYLATION**

[72] GILES, JASON F., US  
[72] KAMAT, PRITISH M., US  
[72] MILLER, GLENN A., US  
[72] PHILLIPS, GEORGE R., US  
[72] TSANG, CHI-WEI, US  
[72] YUAN, QUAN, US  
[71] DOW TECHNOLOGY INVESTMENTS LLC, US  
[85] 2023-06-21  
[86] 2021-11-18 (PCT/US2021/059813)  
[87] (WO2022/139989)  
[30] US (63/128,909) 2020-12-22

[21] **3,203,002**  
[13] A1

[51] **Int.Cl. B01J 21/08 (2006.01) C07C 41/09 (2006.01) C07C 51/285 (2006.01)**

[25] EN

[54] **METHOD OF CATALYTIC CONVERSION OF GLYCERIN INTO PRODUCTS WITH HIGH ADDED VALUE, AND USE**

[54] **PROCEDE DE CONVERSION CATALYTIQUE DE LA GLYCERINE EN PRODUITS A HAUTE VALEUR AJOUTEE ET UTILISATION**

[72] DE FIGUEIREDO PORTILHO, MARCIO, BR  
[72] PACHELI HEITMANN RODRIGUES, ANA, BR  
[72] CHAGAS, POLIANE, BR  
[72] DE CASTRO OLIVEIRA, CINTIA, BR  
[72] MOURA BREDER, SAMUEL, BR  
[72] RANGEL BASTOS, ALEXANDER, BR  
[72] ALVES DE OLIVEIRA, LUIZ CARLOS, BR  
[72] LARA SANGIORGE, DANIEL, BR  
[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR  
[71] UNIVERSIDADE FEDERAL DE MINAS GERAIS-UFGM, BR  
[85] 2023-06-21  
[86] 2021-11-25 (PCT/BR2021/050517)  
[87] (WO2022/133560)  
[30] BR (BR 10 2020 026453 2) 2020-12-22

[21] **3,203,011**  
[13] A1

[51] **Int.Cl. C07D 405/12 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **2H-INDAZOLE DERIVATIVES AS IRAK4 INHIBITORS AND THEIR USE IN THE TREATMENT OF DISEASE**

[54] **DERIVES DE 2H-INDAZOLE SERVANT D'INHIBITEURS D'IRAK4 ET LEUR UTILISATION DANS LE TRAITEMENT DE MALADIES**

[72] PETERSON, EMILY ANNE, US  
[72] PFÄFFENBACH, MAGNUS, US  
[72] GAO, FANG, US  
[72] BOLDUC, PHILIPPE, US  
[72] XIN, ZHILI, US  
[72] EVANS, RYAN, US  
[71] BIOGEN MA INC., US  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/US2021/064651)  
[87] (WO2022/140415)  
[30] US (63/128,967) 2020-12-22

[21] **3,203,013**  
[13] A1

[51] **Int.Cl. G01L 3/10 (2006.01)**

[25] FR

[54] **TORQUE TRANSMISSION AND MEASUREMENT ASSEMBLY FOR A TURBOMACHINE**

[54] **ENSEMBLE DE TRANSMISSION ET DE MESURE DE COUPLE POUR UNE TURBOMACHINE**

[72] FULLERINGER, BENJAMIN NICOLAS, FR  
[72] LANQUETIN, REMI JOSEPH, FR  
[72] NIFENECKER, ARNAUD GEORGES, FR  
[71] SAFRAN HELICOPTER ENGINES, FR  
[85] 2023-06-21  
[86] 2021-12-29 (PCT/FR2021/052466)  
[87] (WO2022/144530)  
[30] FR (FR2014235) 2020-12-30

[21] **3,203,016**  
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) A61K 35/17 (2015.01)**

[25] EN

[54] **CHIMERIC, TRANSMEMBRANE PROTEINS WITH BIDIRECTIONAL SIGNALLING ACTIVITY**

[54] **PROTEINES TRANSMEMBRANAIRES CHIMERIQUES A ACTIVITE DE SIGNALISATION BIDIRECTIONNELLE**

[72] SAND, LAURENS, NL  
[72] NORELL, HAAKAN, NL  
[71] GADETA B.V., NL  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/EP2021/087591)  
[87] (WO2022/136681)  
[30] EP (20217167.4) 2020-12-23  
[30] EP (20217164.1) 2020-12-23

[21] **3,203,018**  
[13] A1

[51] **Int.Cl. A61K 31/202 (2006.01) A23L 33/12 (2016.01) A61P 25/28 (2006.01)**

[25] EN

[54] **VERY-LONG-CHAIN POLYUNSATURATED FATTY ACIDS, ELOVANOID HYDROXYLATED DERIVATIVES, AND METHODS OF USE**

[54] **ACIDES GRAS POLYINSATURES A TRES LONGUE CHAINE, DERIVES HYDROXYLES D'ELOVANOIDE ET LEURS METHODES D'UTILISATION**

[72] BAZAN, NICOLAS G., US  
[71] THE BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE, US  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/US2021/064654)  
[87] (WO2022/140418)  
[30] US (63/128,590) 2020-12-21

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[21] **3,203,021**  
[13] A1

[51] **Int.Cl. A61K 31/52 (2006.01) A61P 17/02 (2006.01)**  
[25] EN  
[54] **TOPICAL BRAF INHIBITOR COMPOSITIONS FOR TREATMENT OF EGFR DOWNSTREAM EFFECTORS - INDUCED REACTIONS**  
[54] **COMPOSITIONS D'INHIBITEUR DE BRAF TOPIQUES POUR LE TRAITEMENT DE REACTIONS INDUITES PAR DES EFFECTEURS EN AVAL D'EGFR**  
[72] SHELACH, NOA, IL  
[72] ZELINGER, GALIT, IL  
[71] LUTRIS PHARMA LTD., IL  
[85] 2023-06-21  
[86] 2021-11-19 (PCT/IB2021/000799)  
[87] (WO2022/136912)  
[30] US (63/130,483) 2020-12-24

[21] **3,203,023**  
[13] A1

[51] **Int.Cl. H04W 12/06 (2021.01)**  
[25] EN  
[54] **SECURITY SYSTEM FOR A MOVEABLE BARRIER OPERATOR**  
[54] **SYSTEME DE SECURITE POUR UN OPERATEUR DE BARRIERE MOBILE**  
[72] AXTOLIS, ROBERT JUDE, US  
[71] THE CHAMBERLAIN GROUP LLC, US  
[85] 2023-06-21  
[86] 2021-12-27 (PCT/US2021/065227)  
[87] (WO2022/146927)  
[30] US (63/132,206) 2020-12-30  
[30] US (63/196,973) 2021-06-04

[21] **3,203,026**  
[13] A1

[51] **Int.Cl. A61K 38/10 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01) A61P 31/22 (2006.01) C07K 14/47 (2006.01)**  
[25] EN  
[54] **PEPTIDES FOR THE TREATMENT OF RESPIRATORY INFECTIONS OF VIRAL ORIGIN**  
[54] **PEPTIDES POUR LE TRAITEMENT D'INFECTIONS RESPIRATOIRES D'ORIGINE VIRALE**  
[72] FERNANDEZ ORTEGA, CELIA BERTA, CU  
[72] RAMIREZ SUAREZ, ANNA CARIDYS, CU  
[72] CASILLAS CASANOVA, DIONNE, CU  
[72] DUARTE CANO, CARLOS ANTONIO, CU  
[72] UBIETA GOMEZ, RAIMUNDO, CU  
[72] GUILLEN NIETO, GERARDO ENRIQUE, CU  
[72] CABRALES RICO, ANIA, CU  
[72] ALVAREZ PEREZ, KAREN, CU  
[72] PERERA GONZALEZ, CARMEN LAURA, CU  
[72] FALCON CAMA, VIVIANA, CU  
[72] PEREA RODRIGUEZ, SILVIO ERNESTO, CU  
[72] RODRIGUEZ MOLTO, MARIA PILAR, CU  
[72] GARAY PEREZ, HILDA ELISA, CU  
[71] CENTRO DE INGENIERIA GENETICA Y BIOTECNOLOGIA, CU  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/CU2021/050015)  
[87] (WO2022/135622)  
[30] CU (2020-0110) 2020-12-23

[21] **3,203,029**  
[13] A1

[51] **Int.Cl. G16C 20/50 (2019.01) G16C 20/40 (2019.01)**  
[25] EN  
[54] **INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING PROGRAM**  
[54] **DISPOSITIF, PROCEDE ET PROGRAMME DE TRAITEMENT D'INFORMATIONS**  
[72] YARIMIZU, HIROKAZU, JP  
[72] HIKIDA, YASUSHI, JP  
[71] FUJI-FILM CORPORATION, JP  
[85] 2023-06-21  
[86] 2021-11-25 (PCT/JP2021/043215)  
[87] (WO2022/137969)  
[30] JP (2020-216937) 2020-12-25

[21] **3,203,030**  
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01) A62B 18/02 (2006.01)**  
[25] EN  
[54] **A RESPIRATORY PROTECTIVE DEVICE OR FACE MASK HYGIENE PRODUCT, A METHOD FOR THE MANUFACTURE OF REINFORCED TEXTILE PART, NONWOVEN FABRIC PART OR THEIR COMBINATION PART, AND A FILTER**  
[54] **DISPOSITIF DE PROTECTION RESPIRATOIRE OU PRODUIT D'HYGIENE DE MASQUE FACIAL, PROCEDE DE FABRICATION DE PIECE TEXTILE RENFORCEE, PIECE EN TISSU NON TISSE OU LEUR PIECE DE COMBINAISON, ET FILTR**  
[72] PORANEN, TANELI, FI  
[72] KOTINIEMI, SAMI, FI  
[71] FORSSAN SUOJAINVALMISTUS OY, FI  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/EP2021/087535)  
[87] (WO2022/144310)  
[30] EP (20217414.0) 2020-12-28

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[21] **3,203,034**  
[13] A1

[51] **Int.Cl. E04H 4/06 (2006.01) E04H 4/10 (2006.01)**  
[25] EN  
[54] **POOL COVER HINGED SLIDING ASSEMBLY**  
[54] **ENSEMBLE COULISSANT ARTICULE DE COUVERTURE DE PISCINE**  
[72] BARLOCKER, DANIEL, US  
[72] DALTON, MATHEW, US  
[71] LATHAM POOL PRODUCTS, INC., US  
[85] 2023-06-21  
[86] 2021-12-30 (PCT/US2021/065704)  
[87] (WO2022/147266)  
[30] US (63/133,676) 2021-01-04

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[21] **3,203,035**  
[13] A1

[51] **Int.Cl. C01F 11/18 (2006.01)**  
[25] EN  
[54] **PRODUCTION OF STRONTIUM SULFATE AND STRONTIUM CARBONATE FROM BRINES**  
[54] **PRODUCTION DE SULFATE DE STRONTIUM ET DE CARBONATE DE STRONTIUM A PARTIR DE SAUMURES**  
[72] GLUCK, STEVEN, US  
[72] LALLI, JASON D., US  
[71] GLUCK, STEVEN, US  
[71] LALLI, JASON D., US  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/US2021/064777)  
[87] (WO2022/140500)  
[30] US (63/129,147) 2020-12-22  
[30] US (63/178,767) 2021-04-23  
[30] US (17/550,295) 2021-12-14

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[21] **3,203,037**  
[13] A1

[51] **Int.Cl. H05K 1/02 (2006.01) H05K 7/20 (2006.01)**  
[25] EN  
[54] **COOLING OF ULTRASOUND ENERGIZERS MOUNTED ON PRINTED CIRCUIT BOARDS**  
[54] **REFROIDISSEMENT DE DISPOSITIFS D'ALIMENTATION EN ENERGIE ULTRASONORE SUR DES CARTES DE CIRCUIT IMPRIME**  
[72] SVERDLIK, ARIEL, IL  
[72] PANIR, EREZ, IL  
[71] SOFWAVE MEDICAL LTD., IL  
[85] 2023-06-21  
[86] 2021-12-30 (PCT/IL2021/051558)  
[87] (WO2022/144895)  
[30] US (63/132,629) 2020-12-31

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[21] **3,203,038**  
[13] A1

[51] **Int.Cl. A61K 9/06 (2006.01) A61K 9/12 (2006.01) A61K 31/047 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01) A61K 47/26 (2006.01)**  
[25] EN  
[54] **FORMULATION COMPRISING P-MENTHANE-3,8-DIOL**  
[54] **FORMULATION COMPRENANT DU P-MENTHANE-3,8-DIOL**  
[72] WOODRUFF, JOHN, GB  
[71] WORKFORCE BIOLOGICS LTD, GB  
[85] 2023-06-21  
[86] 2021-12-15 (PCT/EP2021/086010)  
[87] (WO2022/136067)  
[30] GB (2020461.6) 2020-12-23  
[30] GB (2108165.8) 2021-06-08

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[21] **3,203,040**  
[13] A1

[51] **Int.Cl. H02K 1/02 (2006.01) H01F 1/147 (2006.01)**  
[25] EN  
[54] **ROTATING ELECTRICAL MACHINE, STATOR CORE AND ROTOR CORE SET, METHOD FOR MANUFACTURING ROTATING ELECTRICAL MACHINE, METHOD FOR MANUFACTURING NON-ORIENTED ELECTRICAL STEEL SHEET FOR STATOR AND NON-ORIENTED ELECTRICAL STEEL SHEET FOR ROTOR, METHOD FOR MANUFACTURING STATOR AND ROTOR, AND NON-ORIENTED ELECTRICAL STEEL SHEET SE**  
[54] **MACHINE ELECTRIQUE ROTATIVE, ENSEMBLE DE NOYAU DE FER DE STATOR ET DE NOYAU DE FER DE ROTOR, PROCEDE DE FABRICATION DE MACHINE ELECTRIQUE ROTATIVE, PROCEDE DE FABRICATION DE TOLE D'ACIER ELECTRIQUE NON ORIENTEE POUR STATOR ET TOLE D'ACIER ELECTRIQUE NON ORIENTEE POUR ROTOR, PROCEDE DE FABRICATION DE STATOR ET DE ROTOR, ET ENSEMBLE DE TOLES D'ACIER ELECTRI...**  
[72] MURAKAWA, TESSHU, JP  
[72] NATORI, YOSHIKI, JP  
[71] NIPPON STEEL CORPORATION, JP  
[85] 2023-06-21  
[86] 2022-03-30 (PCT/JP2022/016049)  
[87] (WO2022/210895)  
[30] JP (2021-061620) 2021-03-31  
[30] JP (2021-094807) 2021-06-04

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[21] **3,203,041**  
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/137 (2006.01) A61K 47/32 (2006.01) A61P 25/26 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **TRANSDERMAL AMPHETAMINE COMPOSITIONS WITH LOW LEVELS OF CARBAMATE**

[54] **COMPOSITIONS TRANSDERMIQUES D'AMPHETAMINE A FAIBLES TAUX DE CARBAMATE**

[72] SONOBE, ATSUSHI, US

[72] MONDAL, DEBOPROSAD, US

[72] HIGO, NARUHITO, US

[71] NOVEN PHARMACEUTICALS, INC., US

[85] 2023-06-21

[86] 2022-01-06 (PCT/US2022/011377)

[87] (WO2022/150430)

[30] US (63/134,847) 2021-01-07

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[21] **3,203,042**  
[13] A1

[51] **Int.Cl. C07C 271/02 (2006.01) A61K 31/137 (2006.01) C07C 211/27 (2006.01) G01N 33/94 (2006.01)**

[25] EN

[54] **AMPHETAMINE CARBAMATE COMPOUNDS AND METHODS**

[54] **COMPOSES CARBAMATE D'AMPHETAMINE ET PROCEDES**

[72] MONDAL, DEBOPROSAD, US

[71] NOVEN PHARMACEUTICALS, INC., US

[85] 2023-06-21

[86] 2022-01-06 (PCT/US2022/011378)

[87] (WO2022/150431)

[30] US (63/134,852) 2021-01-07

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[21] **3,203,043**  
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **COMPOSITION OF PIG POLYCLONAL ANTIBODY FOR ITS USE TO TREAT AND/OR PREVENT ANTIBODY-DEPENDENT MACROPHAGE PRO-INFLAMMATORY CYTOKINE RELEASE IN A PASSIVE ANTI-INFECTIOUS IMMUNOTHERAPY**

[54] **COMPOSITION D'ANTICORPS POLYCLONAL DE PORC DESTINEE A ETRE UTILISEE POUR TRAITER ET/OU PREVENIR UNE LIBERATION DE CYTOKINE PRO-INFLAMMATOIRE MACROPHAGE DEPENDANTE D'UN ANTICORPS DANS UNE IMMUNOTHERAPIE ANTI-INFECTIEUSE PASSIV**

[72] DUVAUX, ODILE, FR

[72] VANHOVE, BERNARD, FR

[72] CIRON, CARINE, FR

[71] XENOTHERA, FR

[85] 2023-06-21

[86] 2021-12-22 (PCT/EP2021/087205)

[87] (WO2022/136505)

[30] EP (20306688.1) 2020-12-23

[30] US (63/129,964) 2020-12-23

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[21] **3,203,044**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 50/20 (2018.01) A61B 5/24 (2021.01) A61B 5/02 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR ENGINEERING CYCLE VARIABILITY-RELATED FEATURES FROM BIOPHYSICAL SIGNALS FOR USE IN CHARACTERIZING PHYSIOLOGICAL SYSTEMS**

[54] **PROCEDE ET SYSTEME DE MODIFICATION DE CARACTERISTIQUES ASSOCIEES A LA VARIABILITE DE CYCLE A PARTIR DE SIGNAUX BIOPHYSIQUES DESTINES A ETRE UTILISES DANS LA CARACTERISATION DE SYSTEMES PHYSIOLOGIQUE**

[72] FATHIEH, FARHAD, CA

[72] BURTON, TIMOTHY WILLIAM FAWCETT, CA

[71] ANALYTICS FOR LIFE INC., CA

[85] 2023-06-21

[86] 2021-12-22 (PCT/IB2021/062193)

[87] (WO2022/137167)

[30] US (63/130,324) 2020-12-23

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[21] **3,203,046**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01)**

[25] EN

[54] **APPLICATION OF CRISPR/CAS13 FOR THERAPY OF RNA VIRUS AND/OR BACTERIUM INDUCED DISEASES**

[54] **APPLICATION DE CRISPR/CAS13 POUR LA THERAPIE DE MALADIES INDUITES PAR UN VIRUS A ARN ET/OU UNE BACTERIE**

[72] GRUBER, CHRISTOPH, DE

[72] TRUONG, DONG-JIUNN JEFFERY, DE

[72] GIESERT, FLORIAN, DE

[72] WURST, WOLFGANG, DE

[71] HELMHOLTZ ZENTRUM MUENCHEN - DEUTSCHES FORSCHUNGSZENTRUM FUR GESUNDHEIT UND UMWELT (GMBH), DE

[85] 2023-06-21

[86] 2021-12-21 (PCT/EP2021/086992)

[87] (WO2022/136370)

[30] LU (LU102326) 2020-12-22

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[21] **3,203,047**  
[13] A1

[51] **Int.Cl. H01M 50/583 (2021.01) H01M 50/107 (2021.01) H01M 50/167 (2021.01) H01M 50/533 (2021.01) H01M 50/538 (2021.01) H01M 50/586 (2021.01) H01M 50/593 (2021.01)**

[25] EN

[54] **BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**

[54] **BATTERIE, ET BLOC-BATTERIE ET VEHICULE COMPRENANT CELLE-CI**

[72] HWANGBO, KWANG-SU, KR  
[72] KIM, DO-GYUN, KR  
[72] MIN, GEON-WOO, KR  
[72] LIM, HAE-JIN, KR  
[72] JO, MIN-KI, KR  
[72] CHOI, SU-JI, KR  
[72] KANG, BO-HYUN, KR  
[72] PARK, JONG-SIK, KR  
[72] LIM, JAE-WON, KR  
[72] CHOE, YU-SUNG, KR  
[72] KIM, HAK-KYUN, KR  
[72] LEE, JE-JUN, KR  
[72] LEE, BYOUNG-GU, KR  
[72] RYU, DUK-HYUN, KR  
[72] LEE, KWAN-HEE, KR  
[72] LEE, JAE-EUN, KR  
[72] KIM, JAE-WOONG, KR  
[72] JUNG, JI-MIN, KR  
[72] KONG, JIN-HAK, KR  
[72] LEE, SOON-O, KR  
[72] CHOI, KYU-HYUN, KR  
[72] PARK, PIL-KYU, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2023-06-21  
[86] 2022-01-19 (PCT/KR2022/001011)  
[87] (WO2022/158863)  
[30] KR (10-2021-0007278) 2021-01-19  
[30] KR (10-2021-0022891) 2021-02-19  
[30] KR (10-2021-0022894) 2021-02-19  
[30] KR (10-2021-0022897) 2021-02-19  
[30] KR (10-2021-0022881) 2021-02-19  
[30] KR (10-2021-0024424) 2021-02-23  
[30] KR (10-2021-0030300) 2021-03-08  
[30] KR (10-2021-0030291) 2021-03-08  
[30] KR (10-2021-0046798) 2021-04-09  
[30] KR (10-2021-0058183) 2021-05-04  
[30] KR (10-2021-0077046) 2021-06-14  
[30] KR (10-2021-0084326) 2021-06-28  
[30] KR (10-2021-0131207) 2021-10-01  
[30] KR (10-2021-0131208) 2021-10-01  
[30] KR (10-2021-0131215) 2021-10-01  
[30] KR (10-2021-0131225) 2021-10-01  
[30] KR (10-2021-0131205) 2021-10-01  
[30] KR (10-2021-0137001) 2021-10-14  
[30] KR (10-2021-0137856) 2021-10-15  
[30] KR (10-2021-0142196) 2021-10-22  
[30] KR (10-2021-0153472) 2021-11-09  
[30] KR (10-2021-0160823) 2021-11-19  
[30] KR (10-2021-0163809) 2021-11-24  
[30] KR (10-2021-0165866) 2021-11-26

[30] KR (10-2021-0172446) 2021-12-03  
[30] KR (10-2021-0177091) 2021-12-10  
[30] KR (10-2021-0194593) 2021-12-31  
[30] KR (10-2021-0194610) 2021-12-31  
[30] KR (10-2021-0194611) 2021-12-31  
[30] KR (10-2021-0194612) 2021-12-31  
[30] KR (10-2021-0194572) 2021-12-31  
[30] KR (10-2022-0001802) 2022-01-05

[21] **3,203,048**  
[13] A1

[51] **Int.Cl. B60L 15/08 (2006.01) H02P 6/185 (2016.01) H02P 25/089 (2016.01) B60L 50/10 (2019.01) B60L 50/51 (2019.01) B60L 50/60 (2019.01) B60L 50/61 (2019.01) H02P 21/12 (2016.01)**

[25] EN

[54] **SYSTEM AND METHOD OF OVERCOMING A DEAD-BAND IN A SWITCHED RELUCTANCE MOTOR**

[54] **SYSTEME ET PROCEDE PERMETTANT DE SURMONTER UNE BANDE MORTE DANS UN MOTEUR A RELUCTANCE COMMUTE**

[72] GERDES, JESSE R., US  
[72] SOPKO, THOMAS M., US  
[72] NINO BARON, CARLOS E., US  
[72] WAI, JACKSON, US  
[72] KHALIL, AHMED, US  
[72] ABDUL, SAJAN, US  
[72] ASHFAQ, AMARA, US  
[72] THORNE, JAMES MICHAEL, US  
[71] CATERPILLAR INC., US  
[85] 2023-06-21  
[86] 2021-12-14 (PCT/US2021/063177)  
[87] (WO2022/140102)  
[30] US (17/132,076) 2020-12-23

[21] **3,203,049**  
[13] A1

[51] **Int.Cl. C08J 3/22 (2006.01) C08K 5/14 (2006.01) C08L 23/08 (2006.01)**

[25] EN

[54] **MODIFIED POLYETHYLENE RESINS AND PROCESS FOR MAKING THE SAME**

[54] **RESINES DE POLYETHYLENE MODIFIEES ET LEUR PROCEDE DE FABRICATION**

[72] WILLIAMSON, ALEXANDER, US  
[72] SHARMA, RAHUL, US  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[85] 2023-06-21  
[86] 2021-08-18 (PCT/US2021/046407)  
[87] (WO2022/139885)  
[30] US (63/128,929) 2020-12-22

[21] **3,203,050**  
[13] A1

[51] **Int.Cl. E02F 3/43 (2006.01) E02F 3/34 (2006.01)**

[25] EN

[54] **LOADING MACHINE WITH SELECTABLE PERFORMANCE MODES**

[54] **MACHINE DE CHARGEMENT A MODES DE PERFORMANCE SELECTIONNABLES**

[72] MASSEY, ANDREW J., US  
[71] CATERPILLAR INC., US  
[85] 2023-06-21  
[86] 2021-11-17 (PCT/US2021/059664)  
[87] (WO2022/139984)  
[30] US (17/132,533) 2020-12-23

[21] **3,203,051**  
[13] A1

[51] **Int.Cl. G01N 33/86 (2006.01)**

[25] EN

[54] **METHOD FOR EVALUATING BLOOD PARAMETERS**

[54] **METHODE D'EVALUATION DE PARAMETRES SANGUINS**

[72] RUGGERI, ZAVERIO M., IT  
[72] VERARDO, ALICE, IT  
[72] FOLADORE, ALESSANDRO, IT  
[72] MAZZUCATO, MARIO, IT  
[71] SEDICIDODICI S.R.L., IT  
[85] 2023-06-21  
[86] 2021-11-03 (PCT/IB2021/060166)  
[87] (WO2022/136959)  
[30] IT (102020000031610) 2020-12-21

[21] **3,203,052**  
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01)**

[25] EN

[54] **SATELLITE TERMINAL IP RADIO MOCA LINK SECURITY**

[54] **SECURITE DE LIAISON MOCA DE RADIO IP DE TERMINAL SATELLITE**

[72] HARRINGTON, EMANUEL, US  
[72] MCLAURIN, DAVID, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2023-06-21  
[86] 2021-12-28 (PCT/US2021/065346)  
[87] (WO2022/147011)  
[30] US (17/139,278) 2020-12-31

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[21] **3,203,054**  
[13] A1

[51] **Int.Cl. B62D 55/088 (2006.01) B62D 55/15 (2006.01) F16C 13/00 (2006.01) F16C 33/74 (2006.01)**

[25] EN  
[54] **PRESS FIT ROLLER COLLAR**  
[54] **COLLIER DE ROULEAU A AJUSTEMENT PAR PRESSION**

[72] UMBACH, BRIAN B., US  
[72] SUANNO, GENNARO, US  
[72] RECKER, ROGER L., US  
[72] MATHIEN, DANIEL E., US  
[72] CALL JR., DALE T., US  
[72] HEISE, JORDAN M., US  
[72] MAGNER, SCOTT H., US  
[71] CATERPILLAR INC., US  
[85] 2023-06-21  
[86] 2021-12-08 (PCT/US2021/062309)  
[87] (WO2022/140058)  
[30] US (17/130,248) 2020-12-22

[21] **3,203,055**  
[13] A1

[51] **Int.Cl. C25B 1/04 (2021.01) C25B 1/23 (2021.01) C07C 29/151 (2006.01) C07C 31/04 (2006.01) C25B 15/08 (2006.01)**

[25] EN  
[54] **CONVERSION OF CARBON DIOXIDE AND WATER TO SYNTHESIS GAS FOR PRODUCING METHANOL AND HYDROCARBON PRODUCTS**  
[54] **CONVERSION DU DIOXYDE DE CARBONE ET DE L'EAU EN GAZ DE SYNTHESE POUR LA PRODUCTION DE METHANOL ET DE PRODUITS HYDROCARBONES**

[72] WIX, CHRISTIAN, DK  
[72] STUMMANN, TROELS DAHLGAARD, DK  
[71] TOPSOE A/S, DK  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/EP2021/086999)  
[87] (WO2022/136374)  
[30] EP (20216617.9) 2020-12-22

[21] **3,203,057**  
[13] A1

[51] **Int.Cl. A23C 11/10 (2021.01) A23L 7/10 (2016.01) A23L 7/104 (2016.01) A23L 11/40 (2021.01) A23L 11/50 (2021.01) A23L 11/60 (2021.01)**

[25] EN  
[54] **PROCESS FOR PREPARING A PLANT-BASED FERMENTED DAIRY ALTERNATIVE**  
[54] **PROCEDE DE PREPARATION D'UNE ALTERNATIVE LAITIERE FERMENTEE A BASE DE PLANTES**

[72] EKLOF, JENS MAGNUS, DK  
[72] STOUNBJERG, LYKKE CHRISTINA, DK  
[72] QI, XIAOWEI, DK  
[71] NOVOZYMES A/S, DK  
[85] 2023-06-21  
[86] 2021-11-11 (PCT/EP2021/081398)  
[87] (WO2022/148567)  
[30] EP (21150341.2) 2021-01-05

[21] **3,203,059**  
[13] A1

[51] **Int.Cl. H04L 9/00 (2022.01) H04L 9/32 (2006.01)**

[25] EN  
[54] **REMOTE CERTIFICATE AUTHORITY MANAGEMENT**  
[54] **GESTION D'AUTORITE DE CERTIFICATION A DISTANCE**

[72] PROCH, JONATHAN, US  
[72] SHORTER, EDWARD, US  
[72] WHEELER, REX EDWARD, US  
[71] KEYFACTOR, INC., US  
[85] 2023-06-21  
[86] 2021-11-17 (PCT/US2021/059618)  
[87] (WO2022/146571)  
[30] US (63/131,085) 2020-12-28

[21] **3,203,060**  
[13] A1

[51] **Int.Cl. A61B 50/00 (2016.01) A61L 2/00 (2006.01) A61L 11/00 (2006.01) H05B 6/10 (2006.01)**

[25] EN  
[54] **INDUCTIVELY HEATED WASTE BIN AND DOCKING STATION FOR INDUCTIVELY HEATED WASTE BINS FOR INDUCTIVE STEAM DECONTAMINATION**  
[54] **RECEPTACLE DE DECHETS POUVANT ETRE CHAUFFE PAR INDUCTION ET STATION D'ACCUEIL POUR RECIPIENT DE DECHETS POUVANT ETRE CHAUFFE PAR INDUCTION POUR LA DECONTAMINATION PAR INDUCTION DE LA VAPEU**

[72] PINK, TOMAS, CH  
[71] PINK, TOMAS, CH  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/EP2021/087263)  
[87] (WO2022/144268)  
[30] EP (20217459.5) 2020-12-28  
[30] EP (21190683.9) 2021-08-10  
[30] EP (21190687.0) 2021-08-10

[21] **3,203,061**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/29 (2006.01) A61B 17/94 (2006.01)**

[25] EN  
[54] **A TIP FOR A SURGICAL INSTRUMENT AND RELATED METHODS**  
[54] **POINTE POUR INSTRUMENT CHIRURGICAL ET PROCEDES ASSOCIES**

[72] FRANCIS, PETER, CA  
[72] GORDON, PETER ALEXANDER, CA  
[71] REVOLVE SURGICAL INC., CA  
[85] 2023-06-21  
[86] 2021-12-19 (PCT/IB2021/061998)  
[87] (WO2022/137068)  
[30] US (63/129,103) 2020-12-22



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[21] **3,203,063**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 18/20 (2006.01) A61N 5/06 (2006.01)**  
[25] EN  
[54] **DOSIMETRY DETERMINATION FOR REGIONS WITHIN A TREATMENT AREA USING REAL-TIME SURFACE TEMPERATURE MAPPING AND ASSOCIATED METHODS**  
[54] **DETERMINATION DE DOSIMETRIE POUR DES REGIONS SITUEES A L'INTERIEUR D'UNE ZONE DE TRAITEMENT UTILISANT LA THERMOGRAPHIE DE SURFACE EN TEMPS REEL ET PROCEDES ASSOCIES**  
[72] HOFVANDER, HENRIK, HU  
[72] ESTES, MICHAEL JOHN, US  
[72] ECK, AUBREY JEAN, US  
[71] ACCURE ACNE, INC., US  
[85] 2023-06-21  
[86] 2021-12-29 (PCT/US2021/065486)  
[87] (WO2022/147103)  
[30] US (63/131,778) 2020-12-29

[21] **3,203,064**  
[13] A1

[51] **Int.Cl. H04L 67/125 (2022.01) H04L 69/321 (2022.01)**  
[25] EN  
[54] **NETWORK NODE, MOBILE NODE AND METHODS PERFORMED THEREIN**  
[54] **N?UD DE RESEAU, N?UD MOBILE ET PROCEDES MIS EN ?UVRE DANS CE CADRE**  
[72] SANTOS, WESLEY, SE  
[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE  
[85] 2023-06-21  
[86] 2021-11-08 (PCT/SE2021/051109)  
[87] (WO2022/146210)  
[30] SE (2051571-4) 2020-12-29

[21] **3,203,066**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**  
[25] EN  
[54] **CELLULAR ENABLED IP RADIO SATELLITE TERMINAL**  
[54] **TERMINAL DE SATELLITE RADIO IP A ACTIVATION CELLULAIRE**  
[72] HARRINGTON, EMANUEL, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2023-06-21  
[86] 2021-12-28 (PCT/US2021/065342)  
[87] (WO2022/147007)  
[30] US (17/138,119) 2020-12-30

[21] **3,203,067**  
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) A61K 35/17 (2015.01) C07K 14/705 (2006.01)**  
[25] EN  
[54] **POLYPEPTIDE SPECIFIC FOR MUCIN 1 AND USE THEREOF**  
[54] **POLYPEPTIDE SPECIFIQUE DE LA MUCINE 1 ET UTILISATION ASSOCIEE**  
[72] LEE, JI HYUN, KR  
[72] LEE, HAE YOUN, KR  
[72] CHOI, YOON AA, KR  
[72] YI, DAE GWAN, KR  
[72] CHOI, JUNGWON, KR  
[72] PARK, AREUM, KR  
[72] JUNG, SAEM, KR  
[72] SONG, EU RIM, KR  
[72] NA, KYUBONG, KR  
[72] PARK, MIN JEONG, KR  
[72] JEUN, EUN JI, KR  
[72] CHOE, KYUHONG, KR  
[72] YI, HYOJU, KR  
[72] YANG, HEE JUNG, KR  
[72] JANG, SUNG WOONG, KR  
[71] LG CHEM, LTD., KR  
[85] 2023-06-21  
[86] 2021-12-24 (PCT/KR2021/019790)  
[87] (WO2022/139537)  
[30] KR (10-2020-0183768) 2020-12-24  
[30] KR (10-2021-0137757) 2021-10-15

[21] **3,203,068**  
[13] A1

[51] **Int.Cl. E21B 33/035 (2006.01) E21B 33/038 (2006.01) E21B 33/064 (2006.01) E21B 41/04 (2006.01) E21B 41/10 (2006.01)**  
[25] EN  
[54] **APPARATUS, SYSTEM AND METHOD FOR TETHERING A SUBSEA ASSEMBLY**  
[54] **APPAREIL, SYSTEME ET PROCEDE POUR ATTACHER UN ENSEMBLE SOUS-MARIN**  
[72] STEWART, JAMES MACDONALD, GB  
[72] GOURLEY, CHARLES ALEXANDER GILMOUR, GB  
[71] TLA SUBSEA LTD, GB  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/GB2021/053400)  
[87] (WO2022/136867)  
[30] GB (2020531.6) 2020-12-23

[21] **3,203,069**  
[13] A1

[51] **Int.Cl. H01J 49/40 (2006.01) H01J 49/06 (2006.01)**  
[25] EN  
[54] **COMPACT LASER ION SOURCE APPARATUS AND METHOD**  
[54] **APPAREIL DE SOURCE D'IONS LASER COMPACT ET PROCEDE CORRESPONDANT**  
[72] CHAUDHURI, ANKUR, CA  
[72] LI, LIQIAN, CA  
[72] JOHNSTON, JAMES, CA  
[72] CUSICK, MARTIN-LEE, CA  
[71] ATOMIC ENERGY OF CANADA LIMITED / ENERGIE ATOMIQUE DU CANADA LIMITEE, CA  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/CA2021/051856)  
[87] (WO2022/133593)  
[30] US (63/128,225) 2020-12-21

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[21] **3,203,070**  
[13] A1

[51] **Int.Cl. A01C 1/06 (2006.01)**  
[25] EN  
[54] **SEED TREATMENT SYSTEMS, METHODS, AND AGRICULTURAL COMPOSITIONS**  
[54] **SYSTEMES, PROCEDES DE TRAITEMENT DE GRAINES ET COMPOSITIONS AGRICOLES**  
[72] BELCHER, RICHARD WILSON, US  
[72] REZAEI, FARZANEH, US  
[72] O'BRYAN, KEITH ANTHONY, US  
[71] PIVOT BIO, INC., US  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/US2021/065051)  
[87] (WO2022/140656)  
[30] US (63/130,404) 2020-12-23

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[21] **3,203,072**  
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) C07K 5/103 (2006.01)**  
[25] EN  
[54] **COMPOUNDS COMPRISING A TETRAPEPTIDIC MOIETY**  
[54] **COMPOSES COMPRENANT UNE FRACTION TETRAPEPTIDIQUE**  
[72] CASAZZA, ANDREA, BE  
[72] KINDT, NELE, BE  
[72] REYNS, GEERT, BE  
[72] VAN HELLEPUTTE, LAWRENCE, BE  
[72] DEFERT, OLIVIER, BE  
[71] COBIORES NV, BE  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/EP2021/087374)  
[87] (WO2022/136586)  
[30] EP (20216764.9) 2020-12-22

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[21] **3,203,073**  
[13] A1

[51] **Int.Cl. H02G 3/06 (2006.01)**  
[25] EN  
[54] **PUSH-IN CONDULET DEVICES, ASSEMBLIES, SYSTEMS AND METHODS FOR ELECTRICAL RACEWAY FABRICATION**  
[54] **DISPOSITIFS DE RACCORD DE CONDUIT PAR ENCASTREMENT, ENSEMBLES, SYSTEMES ET PROCEDES POUR LA FABRICATION DE GOULOTTES ELECTRIQUES**  
[72] KHOKLE, HIMANSHU GANGADHAR, IN  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/EP2021/025516)  
[87] (WO2022/135745)  
[30] US (63/129,879) 2020-12-23

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[21] **3,203,076**  
[13] A1

[51] **Int.Cl. H04W 4/40 (2018.01) H04W 52/02 (2009.01) H04W 4/80 (2018.01)**  
[25] EN  
[54] **POWER SAVINGS FOR REMOTE CONTROL DEVICE**  
[54] **ECONOMIES D'ENERGIE POUR DISPOSITIF DE TELECOMMANDE**  
[72] CORBETT, MICHAEL J., US  
[72] GRAUNKE, CHRISTOPHER R., US  
[72] FRADY, JAMISON S., US  
[72] LUTHMAN, TRISHA M., US  
[72] BENNETT, JUSTIN, US  
[72] CIHOLAS, MIKE, US  
[72] DORY, SARAH, US  
[72] HOLLINGER, HERB, US  
[72] RICHARDSON, CASEY, US  
[72] WOODY, JOSH, US  
[71] CROWN EQUIPMENT CORPORATION, US  
[85] 2023-06-21  
[86] 2022-02-08 (PCT/US2022/015607)  
[87] (WO2022/177775)  
[30] US (63/200,174) 2021-02-19

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[21] **3,203,077**  
[13] A1

[51] **Int.Cl. B32B 23/04 (2006.01) B32B 23/20 (2006.01)**  
[25] EN  
[54] **ENGINEERED WOOD ADHESIVES INCLUDING GLYCEROL OR OLIGOMERS OF GLYCEROL AND ENGINEERED WOOD THEREFROM**  
[54] **ADHESIFS DE BOIS D'INGENIERIE COMPRENANT DU GLYCEROL OU DES OLIGOMERES DE GLYCEROL ET DU BOIS D'INGENIERIE A PARTIR DE CEUX-CI**  
[72] GARLIE, DAVID EDWARD, US  
[72] MARKLAND, JR. FLAVE EUGENE, US  
[72] ZHOU, SHUANG, US  
[71] CARGILL, INCORPORATED, US  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/US2021/065099)  
[87] (WO2022/140680)  
[30] US (63/130,200) 2020-12-23

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[21] **3,203,078**  
[13] A1

[51] **Int.Cl. G06F 40/232 (2020.01) G06N 20/00 (2019.01) G06F 40/284 (2020.01)**  
[25] EN  
[54] **PUNCTUATION AND CAPITALIZATION OF SPEECH RECOGNITION TRANSCRIPTS**  
[54] **PONCTUATION ET MISE EN MAJUSCULE DE TRANSCRIPTIONS DE RECONNAISSANCE VOCALE**  
[72] FAIZAKOF, AVRAHAM, IL  
[72] MAZZA, ARNON, IL  
[72] HAIKIN, LEV, IL  
[72] ORBACH, EYAL, IL  
[71] GENESYS CLOUD SERVICES, INC., US  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/US2021/065040)  
[87] (WO2022/146861)  
[30] US (17/135,283) 2020-12-28

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[21] **3,203,080**  
[13] A1

[51] **Int.Cl. C07D 403/04 (2006.01) C07D 471/04 (2006.01)**  
[25] EN  
[54] **PREPARATION AND APPLICATION METHOD OF HETEROCYCLIC COMPOUND AS KRAS INHIBITOR**  
[54] **PREPARATION ET PROCEDE D'APPLICATION D'UN COMPOSE HETEROCYCLIQUE UTILISE EN TANT QU'INHIBITEUR DE KRAS**  
[72] TIAN, HONGQI, CN  
[72] HUANG, GONGCHAO, CN  
[72] GAO, XUGUANG, CN  
[72] XU, HAIJIANG, CN  
[72] MA, WEIMIN, CN  
[72] WANG, XINGKAI, CN  
[71] SHANGHAI KECHOW PHARMA, INC, CN  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/CN2021/140466)  
[87] (WO2022/135470)  
[30] CN (PCT/CN2020/138417) 2020-12-22  
[30] CN (202111157323.8) 2021-09-30

[21] **3,203,081**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 48/00 (2006.01) C07K 7/00 (2006.01) C07K 7/06 (2006.01) C07K 14/00 (2006.01) G01N 33/53 (2006.01)**  
[25] EN  
[54] **CROSSLINKED HELIX DIMER MIMICS OF SOS AND METHODS OF USING SAME**  
[54] **MIMETIQUES DE DIMERES D'HELICES RETICULEES DE SOS ET LEURS METHODES D'UTILISATION**  
[72] ARORA, PARAMJIT S., US  
[72] HONG, SEONG HO, US  
[72] YOO, DANIEL, US  
[71] NEW YORK UNIVERSITY, US  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/US2021/065055)  
[87] (WO2022/146865)  
[30] US (63/131,103) 2020-12-28

[21] **3,203,082**  
[13] A1

[51] **Int.Cl. H04N 7/15 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR AUGMENTED VIEWS IN AN ONLINE MEETING**  
[54] **SYSTEME ET PROCEDE DE VUES AUGMENTEES LORS D'UNE REUNION EN LIGNE**  
[72] MURATA, SHINGO, US  
[71] CANON USA, INC., US  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/US2021/064859)  
[87] (WO2022/140539)  
[30] US (63/130,192) 2020-12-23  
[30] US (63/153,064) 2021-02-24

[21] **3,203,083**  
[13] A1

[51] **Int.Cl. B64D 15/04 (2006.01) B64D 33/02 (2006.01)**  
[25] EN  
[54] **AIRCRAFT ANTI-ICING PROTECTION SYSTEM USING BLOWN HOT AIR WITH REDUCED ENERGY PENALTY**  
[54] **SYSTEME POUR AERONEF DE PROTECTION CONTRE LE GIVRE PAR AIR CHAUD SOUFFLE A PENALITE ENERGETIQUE REDUITE**  
[72] VIDAIC, JONAS, BE  
[71] SONACA S.A., BE  
[85] 2023-06-21  
[86] 2021-12-20 (PCT/EP2021/086886)  
[87] (WO2022/136318)  
[30] BE (BE2020/5980) 2020-12-24

[21] **3,203,085**  
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01) G06N 3/04 (2023.01) G06N 3/08 (2023.01)**  
[25] FR  
[54] **METHOD AND SYSTEM FOR AUTOMATED FRAUD RISK DETECTION IN A MONITORED SYSTEM**  
[54] **PROCEDE ET SYSTEME DE DETECTION AUTOMATISEE DE RISQUE DE FRAUDE DANS UN SYSTEME SURVEILLE**  
[72] BERDOUZ QRICHI ANIBA, HAKIMA, FR  
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR  
[85] 2023-06-21  
[86] 2021-12-28 (PCT/EP2021/087710)  
[87] (WO2022/144347)  
[30] FR (20 14184) 2020-12-28

[21] **3,203,086**  
[13] A1

[51] **Int.Cl. A47C 31/10 (2006.01)**  
[25] EN  
[54] **MATTRESS COVER AND METHOD OF MANUFACTURE OF SUCH MATTRESS COVER**  
[54] **HOUSSE DE MATELAS ET PROCEDE DE FABRICATION D'UNE TELLE HOUSSE DE MATELAS**  
[72] MITTAL, KHUSHBOO, US  
[71] SYSCO GUEST SUPPLY, LLC, US  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/US2021/064533)  
[87] (WO2022/140335)  
[30] US (17/129,326) 2020-12-21

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[21] **3,203,087**  
[13] A1

[51] **Int.Cl. G06Q 30/06 (2023.01) G06Q 50/12 (2012.01) G06F 3/0482 (2013.01) G06F 3/04842 (2022.01) G06N 20/00 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DYNAMIC MENU AND DISH PRESENTATION**

[54] **SYSTEME ET PROCEDE DE PRESENTATION DYNAMIQUE DE MENU ET DE PLATS**

[72] IMBERT, BERNARD, CA  
[72] CARRIER, BENOIT, CA  
[72] ALLARD, JULIEN, CA  
[72] MARTIN, ALEXANDRE, CA  
[71] TECHNOLOGIES UEAT INC., CA  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/CA2021/051874)  
[87] (WO2022/133607)  
[30] US (63/129,109) 2020-12-22

[21] **3,203,088**  
[13] A1

[51] **Int.Cl. B29C 49/64 (2006.01) B29C 49/06 (2006.01) B29C 49/42 (2006.01)**

[25] EN

[54] **POST MOULDING COOLING APPARATUS FOR PREFORMS OR CONTAINERS MADE OF THERMOPLASTIC**

[54] **APPAREIL DE REFROIDISSEMENT POST-MOULAGE POUR PREFORMES OU RECIPIENTS EN MATIERE THERMOPLASTIQUE**

[72] CAVALLINI, FRANCO, IT  
[72] FRARE, MARCO, IT  
[72] PIAI, MARCO, IT  
[72] ZOPPAS, MATTEO, IT  
[71] S.I.P.A. SOCIETA' INDUSTRIALIZZAZIONE PROGETTAZIONE E AUTOMAZIONE S.P.A., IT  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/IB2021/062060)  
[87] (WO2022/137097)  
[30] IT (10202000032357) 2020-12-24

[21] **3,203,089**  
[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/46 (2020.01) A61M 11/04 (2006.01)**

[25] EN

[54] **CAPSULES WITH INTEGRATED MOUTHPIECES, HEAT-NOT-BURN (HNB) AEROSOL-GENERATING DEVICES, AND METHODS OF GENERATING AN AEROSOL**

[54] **CAPSULES A EMBOUT BUCCAL INTEGRE, DISPOSITIFS DE GENERATION D'AEROSOL A CHAUFFAGE SANS COMBUSTION (HNB), ET PROCEDES DE GENERATION D'UN AEROSOL**

[72] BLACKMON, ZACK W., US  
[71] ALTRIA CLIENT SERVICES LLC, US  
[85] 2023-06-21  
[86] 2021-11-23 (PCT/US2021/060505)  
[87] (WO2022/146581)  
[30] US (17/140,215) 2021-01-04

[21] **3,203,090**  
[13] A1

[51] **Int.Cl. A61K 38/47 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING AND/OR PREVENTING GLYCOGEN STORAGE DISEASES**

[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT ET/OU LA PREVENTION DE LA GLYCOGENOSE**

[72] SUN, BAODONG, US  
[72] KISHNANI, PRIYA, US  
[71] DUKE UNIVERSITY, US  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/US2021/065160)  
[87] (WO2022/140703)  
[30] US (63/130,687) 2020-12-26  
[30] US (63/243,127) 2021-09-11

[21] **3,203,091**  
[13] A1

[51] **Int.Cl. A61K 8/27 (2006.01) A61K 8/42 (2006.01)**

[25] EN

[54] **METAL COMPLEXES AND METHODS FOR THE SAME**

[54] **COMPLEXES METALLIQUES ET PROCEDES POUR CES DERNIERS**

[72] JARACZ, STANISLAV, US  
[72] SHEN, HONGWEI, US  
[71] COLGATE-PALMOLIVE COMPANY, US  
[85] 2023-06-21  
[86] 2021-12-29 (PCT/US2021/065457)  
[87] (WO2022/147081)  
[30] US (63/132,424) 2020-12-30

[21] **3,203,093**  
[13] A1

[51] **Int.Cl. H04W 4/40 (2018.01) H04W 4/80 (2018.01)**

[25] EN

[54] **CALCULATING MISSED MESSAGES EXPECTED TO BE RECEIVED BY A CENTRAL DEVICE FROM A PERIPHERAL DEVICE**

[54] **CALCUL DE MESSAGES MANQUES CENSES ETRE RECUS D'UN DISPOSITIF PERIPHERIQUE PAR UN DISPOSITIF CENTRAL**

[72] CORBETT, MICHAEL J., US  
[72] GRAUNKE, CHRISTOPHER R., US  
[72] FRADY, JAMISON S., US  
[72] LUTHMAN, TRISHA M., US  
[72] BENNETT, JUSTIN, US  
[72] CIHOLAS, MIKE, US  
[72] DORY, SARAH, US  
[72] HOLLINGER, HERB, US  
[72] RICHARDSON, CASEY, US  
[72] WOODY, JOSH, US  
[71] CROWN EQUIPMENT CORPORATION, US  
[85] 2023-06-21  
[86] 2022-02-08 (PCT/US2022/015611)  
[87] (WO2022/177777)  
[30] US (63/200,174) 2021-02-19

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[21] **3,203,094**  
[13] A1

[51] **Int.Cl. G01P 3/487 (2006.01) G01P 3/66 (2006.01)**  
[25] EN  
[54] **DEVICE FOR ASCERTAINING DATA IN ORDER TO DETERMINE THE SPEED OF A VEHICLE, ANALYSIS DEVICE, AND METHOD FOR SAME**  
[54] **DISPOSITIF DE DETERMINATION DE DONNEES POUR LA DETERMINATION DE LA VITESSE D'UN VEHICULE, DISPOSITIF D'ANALYSE ET PROCEDE ASSOCIE**  
[72] JAHNEN, GEORG, DE  
[72] BECKER, CHRISTIAN, DE  
[71] K.W.H. CICLOSPORT VERTRIEBS GMBH, DE  
[85] 2023-06-21  
[86] 2021-12-10 (PCT/EP2021/085231)  
[87] (WO2022/135978)  
[30] EP (20216895.1) 2020-12-23

[21] **3,203,095**  
[13] A1

[51] **Int.Cl. G01N 13/00 (2006.01) G01N 33/15 (2006.01)**  
[25] EN  
[54] **GASTROINTESTINAL TRACT SIMULATION SYSTEM AND METHOD**  
[54] **SYSTEME ET METHODE DE SIMULATION DE TRACTUS GASTRO-INTESTINAL**  
[72] MOENS, FREDERIC, BE  
[72] VANDEVIJVER, GIES, BE  
[72] MARZORATI, MASSIMO, BE  
[71] PRODIGEST, BE  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/EP2021/087117)  
[87] (WO2022/136449)  
[30] EP (20216750.8) 2020-12-22  
[30] EP (21154616.3) 2021-02-01

[21] **3,203,097**  
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) A61K 9/00 (2006.01) A61P 25/00 (2006.01)**  
[25] EN  
[54] **HYBRID HASHISH-BASED CONSUMER PRODUCTS**  
[54] **PRODUITS DE CONSOMMATION A BASE DE HASCHISCH HYBRIDES**  
[72] NEAULT, TODD, CA  
[72] DURBANO, RENATO DEVIEN, CA  
[72] PATENAUDE, SONIA, CA  
[71] HEXO OPERATIONS INC., CA  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/CA2021/051863)  
[87] (WO2022/133598)  
[30] US (63/130,554) 2020-12-24

[21] **3,203,100**  
[13] A1

[51] **Int.Cl. G08B 13/12 (2006.01) F42B 12/36 (2006.01) F42C 7/12 (2006.01) F42C 15/20 (2006.01)**  
[25] EN  
[54] **PERIMETER BREACH WARNING ALARM**  
[54] **ALARME D'AVERTISSEMENT DE VIOLATION DE PERIMETRE**  
[72] SPARKES, JAMES ROBERT, CA  
[71] SPARKES, JAMES ROBERT, CA  
[85] 2023-06-21  
[86] 2021-12-22 (PCT/CA2021/051878)  
[87] (WO2022/133609)  
[30] US (63/129,068) 2020-12-22

[21] **3,203,107**  
[13] A1

[51] **Int.Cl. A61B 5/087 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MEASURING INSPIRATORY/EXPIRATORY AIR FLOW**  
[54] **SYSTEME ET PROCEDE DE MESURE DE FLUX D'AIR INSPIRATOIRE/EXPIRATOIRE**  
[72] TSOULUHAS, ANNA, CA  
[71] CDM MONTREAL, CA  
[85] 2023-06-21  
[86] 2022-01-26 (PCT/CA2022/050102)  
[87] (WO2022/160042)  
[30] US (63/141,759) 2021-01-26

[21] **3,203,108**  
[13] A1

[51] **Int.Cl. A01D 45/06 (2006.01)**  
[25] EN  
[54] **PROCESSING MACHINE FOR FIBRE PLANTS**  
[54] **MACHINE DE TRAITEMENT DE PLANTES A FIBRES**  
[72] BAERT, NIELS, BE  
[71] HYLER BV, BE  
[85] 2023-06-21  
[86] 2021-12-24 (PCT/EP2021/087644)  
[87] (WO2022/136702)

[21] **3,203,109**  
[13] A1

[51] **Int.Cl. A01D 45/06 (2006.01)**  
[25] EN  
[54] **HEMP PICKING MACHINE FOR PICKING HEMP**  
[54] **MACHINE DE RECOLTE DE CHANVRE POUR LA RECOLTE DE CHANVRE**  
[72] BAERT, NIELS, BE  
[71] HYLER BV, BE  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/EP2021/087604)  
[87] (WO2022/136687)  
[30] BE (BE2020/5984) 2020-12-24

[21] **3,203,110**  
[13] A1

[51] **Int.Cl. F24D 3/08 (2006.01) F24H 15/212 (2022.01) F24H 15/238 (2022.01) F24H 15/305 (2022.01) F24H 15/31 (2022.01) F24D 19/10 (2006.01)**  
[25] EN  
[54] **A HYDRAULIC UNIT**  
[54] **UNITE HYDRAULIQUE**  
[72] SHEPPARD, LUKE MICHAEL, GB  
[71] IDZV LTD, GB  
[85] 2023-06-21  
[86] 2021-12-23 (PCT/IB2021/062252)  
[87] (WO2022/137196)  
[30] GB (2020450.9) 2020-12-23

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[21] **3,203,111**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 31/541 (2006.01) A61K 31/553 (2006.01) A61K 31/662 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01) C07F 9/38 (2006.01)**

[25] EN  
[54] **SOS1 INHIBITORS AND USES THEREOF**  
[54] **INHIBITEURS DE SOS1 ET UTILISATIONS ASSOCIEES**

[72] WANG, KAILIANG, CN  
[72] HU, ZHILONG, CN  
[72] ZHANG, FEI, CN  
[72] HUANG, WEI, CN  
[72] FENG, TENG, CN  
[72] XIAO, FEI, CN  
[72] ZHONG, WENGE, US  
[71] QILU REGOR THERAPEUTICS INC., CN

[85] 2023-06-21  
[86] 2021-12-21 (PCT/US2021/064668)  
[87] (WO2022/140427)  
[30] CN (PCT/CN2020/138288) 2020-12-22

[21] **3,203,112**  
[13] A1

[51] **Int.Cl. A23L 27/10 (2016.01)**

[25] EN  
[54] **SALTINESS-PERCEPTION ENHANCING COMPOUNDS**  
[54] **COMPOSES AMELIORANT LA PERCEPTION DE LA SALINITE**

[72] ANDERSON, NICKOLAS, US  
[72] PETERSON, DEVIN, US  
[72] PETERSON, JULIE, US  
[72] SCHWARTZ, ERIC, US  
[71] FRITO-LAY NORTH AMERICA, INC., US

[85] 2023-06-21  
[86] 2022-02-03 (PCT/US2022/015062)  
[87] (WO2022/169940)  
[30] US (17/168,464) 2021-02-05

[21] **3,203,113**  
[13] A1

[51] **Int.Cl. A24F 40/485 (2020.01) A24F 40/465 (2020.01)**

[25] EN  
[54] **AEROSOL GENERATING DEVICE INCLUDING AIRFLOW PASSAGE**  
[54] **DISPOSITIF DE GENERATION D'AEROSOL COMPRENANT UN PASSAGE D'ECOULEMENT D'AIR**

[72] KIM, DONG SUNG, KR  
[72] HAN, DAE NAM, KR  
[72] KIM, YONG HWAN, KR  
[72] LEE, SEUNG WON, KR  
[72] JANG, SEOK SU, KR  
[71] KT&G CORPORATION, KR

[85] 2023-06-21  
[86] 2022-03-04 (PCT/KR2022/003074)  
[87] (WO2022/191517)  
[30] KR (10-2021-0031902) 2021-03-11

[21] **3,203,114**  
[13] A1

[51] **Int.Cl. G08C 17/02 (2006.01)**

[25] EN  
[54] **SMART MOUNTING SYSTEM FOR A REMOTE CONTROL DEVICE**  
[54] **SYSTEME DE MONTAGE INTELLIGENTE POUR DISPOSITIF DE TELECOMMANDE**

[72] DIMBERG, CHRIS, US  
[72] HARTE, MATTHEW V., US  
[72] MCDONALD, MATTHEW P., US  
[72] NEWMAN, ROBERT C. JR., US  
[72] TWADDELL, DANIAL L., US  
[71] LUTRON TECHNOLOGY COMPANY LLC, US

[85] 2023-06-21  
[86] 2021-12-21 (PCT/US2021/064703)  
[87] (WO2022/140452)  
[30] US (63/129,259) 2020-12-22

[21] **3,203,115**  
[13] A1

[51] **Int.Cl. G21F 1/08 (2006.01)**

[25] EN  
[54] **IMPROVED MATERIALS FOR TUNGSTEN BORIDE NEUTRON SHIELDING**  
[54] **MATERIAUX AMELIORES POUR BLINDAGE NEUTRONIQUE AU BORURE DE TUNGSTENE**

[72] ASTBURY, JACK, GB  
[72] WINDSOR, COLIN, GB  
[72] HUMPHRY-BAKER, SAMUEL A., GB  
[72] DAVIDSON, JAMES, GB  
[72] MCFADZEAN, CHARLES, GB  
[71] TOKAMAK ENERGY LTD, GB  
[71] IMPERIAL COLLEGE INNOVATIONS LIMITED, GB

[85] 2023-06-21  
[86] 2021-12-21 (PCT/EP2021/087149)  
[87] (WO2022/136470)  
[30] GB (2020390.7) 2020-12-22  
[30] GB (2113587.6) 2021-09-23

[21] **3,203,117**  
[13] A1

[51] **Int.Cl. E01C 13/08 (2006.01)**

[25] EN  
[54] **NATURAL ARTIFICIAL TURF INFILL**  
[54] **REMPLISSAGE POUR GAZON ARTIFICIEL NATUREL**

[72] SETHUNATH, SALIL, NL  
[72] KOLKMAN, NIELS GERHARDUS, NL  
[72] YOUNG, COLIN, NL  
[72] VOGEL, MICHAEL RENE, NL  
[72] HEERINK, HEIN ANTON, NL  
[71] TEN CATE THIOLON B.V., NL

[85] 2023-06-21  
[86] 2021-12-23 (PCT/EP2021/087471)  
[87] (WO2022/136633)  
[30] NL (2027211) 2020-12-23

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[21] **3,203,118**  
[13] A1

[51] **Int.Cl. C12N 15/12 (2006.01) C12N 5/0783 (2010.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C12N 5/10 (2006.01) C12N 15/85 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **CD8 POLYPEPTIDES, COMPOSITIONS, AND METHODS OF USING THEREOF**

[54] **POLYPEPTIDES CD8, COMPOSITIONS ET LEURS METHODES D'UTILISATION**

[72] BAJWA, GAGAN, US

[72] KALRA, MAMTA, US

[72] MATA, MELINDA, US

[71] IMMATICS US, INC., US

[85] 2023-06-21

[86] 2021-12-28 (PCT/US2021/065367)

[87] (WO2022/147029)

[30] US (63/132,824) 2020-12-31

[30] DE (10 2021 100 038.6) 2021-01-04

[30] US (63/247,775) 2021-09-23

[21] **3,203,119**  
[13] A1

[51] **Int.Cl. E01C 13/08 (2006.01)**

[25] EN

[54] **ARTIFICIAL TURF INFILL WITH NATURAL RUBBER GRANULES**

[54] **REPLISSAGE DE GAZON ARTIFICIEL AVEC DES GRANULES DE CAOUTCHOUC NATUREL**

[72] SETHUNATH, SALIL, NL

[72] KOLKMAN, NIELS GERHARDUS, NL

[72] YOUNG, COLIN, NL

[72] VOGEL, MICHAEL RENE, NL

[72] HEERINK, HEIN ANTON, NL

[71] TEN CATE THIOLON B.V., NL

[85] 2023-06-21

[86] 2021-12-23 (PCT/EP2021/087530)

[87] (WO2022/136657)

[30] NL (2027212) 2020-12-23

[21] **3,203,120**  
[13] A1

[51] **Int.Cl. A61F 13/15 (2006.01) A61L 15/42 (2006.01)**

[25] EN

[54] **FORMULATIONS, BIODEGRADABLE MEMBRANES, PRODUCTS INCLUDING BIODEGRADABLE MEMBRANES, AND METHODS OF MANUFACTURE**

[54] **FORMULATIONS, MEMBRANES BIODEGRADABLES, PRODUITS COMPRENANT DES MEMBRANES BIODEGRADABLES, ET PROCEDES DE FABRICATION**

[72] LAWRENCE, ROBERT THORNE, NZ

[72] LAWRENCE, JOY CHIUNG-YI TSENG, NZ

[71] SLEAKTEK LIMITED, NZ

[85] 2023-06-21

[86] 2021-12-23 (PCT/NZ2021/050231)

[87] (WO2022/139598)

[30] NZ (771399) 2020-12-23

[30] AU (2021900812) 2021-03-19

[21] **3,203,123**  
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01)**

[25] EN

[54] **GENERATING SECURE CALENDAR DATA**

[54] **GENERATION DE DONNEES DE CALENDRIER SECURISEES**

[72] MONTY, DAVID, GB

[72] POOLE, ANTHONY, GB

[71] TELL MONEY LIMITED, GB

[85] 2023-06-21

[86] 2021-01-05 (PCT/EP2021/050071)

[87] (WO2022/148527)

[21] **3,203,124**  
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01)**

[25] EN

[54] **MACHINE LEARNING CLASSIFICATION OF LUNG NODULES BASED ON GENE EXPRESSION**

[54] **CLASSIFICATION PAR APPRENTISSAGE AUTOMATIQUE DE NODULES PULMONAIRES SUR LA BASE DE L'EXPRESSION GENIQUE**

[72] BACHALI, PRATHYUSHA, US

[72] GRAMMER, AMRIE C., US

[72] LIPSKY, PETER E., US

[71] AMPEL BIOSOLUTIONS, LLC, US

[85] 2023-06-21

[86] 2021-12-28 (PCT/US2021/065348)

[87] (WO2022/147013)

[30] US (63/132,130) 2020-12-30

[21] **3,203,125**  
[13] A1

[51] **Int.Cl. A61K 9/06 (2006.01) A61K 9/08 (2006.01) A61K 31/138 (2006.01)**

[25] EN

[54] **ENDOXIFEN FOR TREATMENT OF OVARIAN CANCER**

[54] **ENDOXIFENE POUR LE TRAITEMENT DU CANCER DE L'OVAIRE**

[72] QUAY, STEVEN C., US

[71] ATOSSA THERAPEUTICS, INC., US

[85] 2023-06-21

[86] 2022-03-10 (PCT/US2022/019674)

[87] (WO2022/192488)

[30] US (63/159,548) 2021-03-11

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[21] **3,203,126**  
[13] A1

[51] **Int.Cl. C01B 3/56 (2006.01) C01B 3/50 (2006.01)**

[25] EN

[54] **ENHANCED HYDROGEN RECOVERY UTILIZING GAS SEPARATION MEMBRANES INTEGRATED WITH PRESSURE SWING ADSORPTION UNIT AND/OR CRYOGENIC SEPARATION SYSTEM**

[54] **RECUPERATION AMELIOREE D'HYDROGENE UTILISANT DES MEMBRANES DE SEPARATION DE GAZ INTEGRES A UNE UNITE D'ADSORPTION MODULEE EN PRESSION ET/OU UN SYSTEME DE SEPARATION CRYOGENIQUE**

[72] TEWARI, SHEKHAR, US  
[72] VENNER, RONALD M., US  
[72] PANDITRAO, SUNIL, US  
[72] MALONEY, DENNIS, US  
[71] LUMMUS TECHNOLOGY LLC, US  
[85] 2023-06-21  
[86] 2022-01-07 (PCT/US2022/011662)  
[87] (WO2022/150619)  
[30] US (63/135,432) 2021-01-08

[21] **3,203,127**  
[13] A1

[51] **Int.Cl. G06E 1/00 (2006.01)**

[25] EN

[54] **TRANSACTION DATA PROCESSING SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE DONNEES DE TRANSACTION**

[72] CHEAH, SOON-EE, NZ  
[72] RUSU, DELIA, NZ  
[72] JEUNE, HAYDEN, NZ  
[72] DRIDAN, REBECCA, NZ  
[72] THURIER, QUENTIN-GABRIEL, NZ  
[72] QIN, FUBIAO, NZ  
[72] PECHAN, NIKLAS PATRICK, NZ  
[71] XERO LIMITED, NZ  
[85] 2023-06-21  
[86] 2021-08-25 (PCT/NZ2021/050151)  
[87] (WO2022/139595)  
[30] AU (2020904805) 2020-12-23

[21] **3,203,128**  
[13] A1

[51] **Int.Cl. A61L 2/00 (2006.01) A61M 35/00 (2006.01)**

[25] EN

[54] **ON-DEVICE SELECTIVE REMOVAL OF IMPURITIES IN CLEANING FLUID**

[54] **ELIMINATION SELECTIVE SUR DISPOSITIF D'IMPURETES DANS UN FLUIDE DE NETTOYAGE**

[72] SIERACKI, NATHAN, US  
[72] MENG, FANQING, US  
[71] CAREFUSION 2200, INC., US  
[85] 2023-06-21  
[86] 2021-11-11 (PCT/US2021/058968)  
[87] (WO2022/139973)  
[30] US (63/129,361) 2020-12-22

[21] **3,203,129**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4188 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **IMIDAZO[1,2-A]PYRIDINE DERIVATIVES AS IRAK4 INHIBITORS AND THEIR USE IN THE TREATMENT OF DISEASE**

[54] **DERIVES D'IMIDAZO[1,2-A]PYRIDINE SERVANT D'INHIBITEURS D'IRAK4 ET LEUR UTILISATION DANS LE TRAITEMENT D'UNE MALADIE**

[72] PETERSON, EMILY ANNE, US  
[72] PFAFFENBACH, MAGNUS, US  
[72] GAO, FANG, US  
[72] BOLDUC, PHILIPPE, US  
[72] XIN, ZHILI, US  
[72] EVANS, RYAN, US  
[71] BIOGEN MA INC., US  
[85] 2023-06-21  
[86] 2021-12-21 (PCT/US2021/064666)  
[87] (WO2022/140425)  
[30] US (63/128,964) 2020-12-22

[21] **3,203,132**  
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/20 (2020.01) A24F 40/57 (2020.01)**

[25] EN

[54] **AEROSOL-GENERATING DEVICE AND SYSTEM COMPRISING AN INDUCTIVE HEATING DEVICE AND METHOD OF OPERATING THE SAME**

[54] **SYSTEME ET DISPOSITIF DE GENERATION D'AEROSOL COMPRENANT UN DISPOSITIF DE CHAUFFAGE PAR INDUCTION ET PROCEDE DE FONCTIONNEMENT ASSOCIE**

[72] BUTIN, YANNICK, CH  
[72] MOHSENI, FARHANG, CH  
[72] STURA, ENRICO, CH  
[72] NESOVIC, MILICA, CH  
[72] GATTONI, LUCAS, CH  
[71] PHILIP MORRIS PRODUCTS S.A., CH  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/EP2021/087545)  
[87] (WO2022/136661)  
[30] EP (20217029.6) 2020-12-23

[21] **3,203,138**  
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) H05B 1/02 (2006.01) H05B 6/06 (2006.01)**

[25] EN

[54] **AEROSOL-GENERATING DEVICE AND SYSTEM COMPRISING AN INDUCTIVE HEATING DEVICE AND METHOD OF OPERATING THE SAME**

[54] **DISPOSITIF DE GENERATION D'AEROSOL ET SYSTEME COMPRENANT UN DISPOSITIF DE CHAUFFAGE PAR INDUCTION ET SON PROCEDE DE FONCTIONNEMENT**

[72] BUTIN, YANNICK, CH  
[72] STURA, ENRICO, CH  
[72] GATTONI, LUCAS, CH  
[72] MOHSENI, FARHANG, CH  
[72] NESOVIC, MILICA, CH  
[71] PHILIP MORRIS PRODUCTS S.A., CH  
[71] PHILIP MORRIS PRODUCTS S.A., CH  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/EP2021/087543)  
[87] (WO2022/136660)  
[30] EP (20217031.2) 2020-12-23



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[21] **3,203,146**  
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/57 (2020.01) A24F 40/20 (2020.01)**  
[25] EN  
[54] **AEROSOL-GENERATING DEVICE AND SYSTEM COMPRISING AN INDUCTIVE HEATING DEVICE AND METHOD OF OPERATING THE SAME**  
[54] **DISPOSITIF DE GENERATION D'AEROSOL ET SYSTEME COMPRENANT UN DISPOSITIF DE CHAUFFAGE INDUCTIF ET SON PROCEDE DE FONCTIONNEMENT**  
[72] BUTIN, YANNICK, CH  
[72] MOHSENI, FARHANG, CH  
[72] STURA, ENRICO, CH  
[72] NESOVIC, MILICA, CH  
[72] GATTONI, LUCAS, CH  
[71] PHILIP MORRIS PRODUCTS S.A., CH  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/EP2021/087581)  
[87] (WO2022/136677)  
[30] EP (20217043.7) 2020-12-23

[21] **3,203,149**  
[13] A1

[51] **Int.Cl. B65D 19/26 (2006.01)**  
[25] EN  
[54] **ARTICLE TRANSPORTATION PALLET**  
[54] **PALETTE DE TRANSPORT D'ARTICLES**  
[72] HIRANO, KAZUTOYO, JP  
[71] HIRANO, KAZUTOYO, JP  
[85] 2023-06-22  
[86] 2021-11-12 (PCT/JP2021/041695)  
[87] (WO2022/158093)  
[30] JP (2021-008451) 2021-01-22

[21] **3,203,155**  
[13] A1

[51] **Int.Cl. B01D 29/01 (2006.01) B01D 33/00 (2006.01) B01D 39/10 (2006.01) B01D 39/12 (2006.01) B07B 1/28 (2006.01) B07B 1/30 (2006.01)**  
[25] EN  
[54] **SHAKER SCREEN ASSEMBLY WITH UNDULATION SEALING TABS**  
[54] **ENSEMBLE TAMIS A SECOURSSES DOTE DE LANGUETTES D'ETANCHEITE A ONDULATION**  
[72] BISSETT, JAMES R., US  
[71] CONTINENTAL WIRE CLOTH, LLC, US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064899)  
[87] (WO2022/140568)  
[30] US (63/130,049) 2020-12-23

[21] **3,203,164**  
[13] A1

[51] **Int.Cl. C01B 32/174 (2017.01) H01M 4/62 (2006.01)**  
[25] EN  
[54] **CONDUCTOR PRE-DISPERSION SLURRY FOR SECONDARY BATTERY ELECTRODE, PREPARATION METHOD THEREFOR, ELECTRODE MANUFACTURED BY APPLYING CONDUCTOR PRE-DISPERSION SLURRY, AND SECONDARY BATTERY COMPRISING SAME ELECTROD**  
[54] **SUSPENSION EPAISSE DE PRE-DISPERSION DE CONDUCTEUR POUR ELECTRODE DE BATTERIE SECONDAIRE, SON PROCEDE DE PREPARATION, ELECTRODE FABRIQUEE PAR APPLICATION D'UNE SUSPENSION EPAISSE DE PRE-DISPERSION DE CONDUCTEUR ET BATTERIE SECONDAIRE LA COMPRENAN**  
[72] KIM, HYEONG CHEOL, KR  
[72] HUH, CHUL, KR  
[72] YANG, HWI CHAN, KR  
[72] LEE, JOO CHEOL, KR  
[72] HAN, JU KYUNG, KR  
[72] AN, WOO HYUN, KR  
[71] DONGJIN SEMICHEM CO., LTD., KR  
[85] 2023-06-22  
[86] 2021-12-09 (PCT/KR2021/018682)  
[87] (WO2022/139272)  
[30] KR (10-2020-0181127) 2020-12-22

[21] **3,203,166**  
[13] A1

[51] **Int.Cl. C08G 12/06 (2006.01) C09J 177/02 (2006.01)**  
[25] EN  
[54] **BINDER COMPOSITION COMPRISING POLYAMINE(S) AS WELL AS 1,3 - DIHYDROXYACETONE, GLYCOLALDEHYDE AND/OR GLYCERALDEHYDE FOR COMPOSITE ARTICLES**  
[54] **COMPOSITION DE LIANT COMPRENANT UNE OU PLUSIEURS POLYAMINES AINSI QUE DE LA 1,3-DIHYDROXYACETONE, DU GLYCOLALDEHYDE ET/OU DU GLYCERALDEHYDE POUR DES ARTICLES COMPOSITES**  
[72] SOMMER, GEREON ANTONIUS, DE  
[72] SCHERR, GUENTER, DE  
[72] WEINKOETZ, STEPHAN, DE  
[72] SERVAY, THOMAS, DE  
[72] HAMANN, JESSICA NADINE, DE  
[72] TELES, JOAQUIM HENRIQUE, DE  
[72] LUNKWITZ, RALPH, DE  
[72] TUERP, DAVID, DE  
[71] BASF SE, DE  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/EP2021/087428)  
[87] (WO2022/136613)  
[30] EP (20216812.6) 2020-12-23

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[21] **3,203,169**  
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION OF MULTI-TARGET PROTEIN KINASE INHIBITORS, AND USE THEREOF**  
[54] **COMPOSITION PHARMACEUTIQUE D'INHIBITEURS DE PROTEINE KINASE A CIBLES MULTIPLES, ET SON UTILISATION**  
[72] LIU, CUIYAN, CN  
[72] BAI, JING, CN  
[72] WEN, SHILONG, CN  
[72] LIU, NA, CN  
[72] GU, CONG, CN  
[72] JI, DEHUA, CN  
[71] CSPEC ZHONGQI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD, CN  
[85] 2023-06-22  
[86] 2021-12-30 (PCT/CN2021/143219)  
[87] (WO2022/143933)  
[30] CN (202011642452.1) 2020-12-31  
[30] CN (202110829596.6) 2021-07-22

[21] **3,203,170**  
[13] A1

[51] **Int.Cl. A61K 33/10 (2006.01) A61K 9/51 (2006.01) A61K 47/12 (2006.01) A61K 47/30 (2006.01) A61P 3/04 (2006.01)**  
[25] EN  
[54] **FATTY ACID- MODIFIED POLYMER NANOPARTICLES, AND USE THEREOF**  
[54] **NANOPARTICULES DE POLYMERES MODIFIEES PAR ACIDE GRAS ET LEUR UTILISATION**  
[72] LEE, KUEN YONG, KR  
[72] LEE, HYE WON, KR  
[71] SUPERNOVA BIO CO., LTD., KR  
[85] 2023-06-22  
[86] 2021-12-21 (PCT/KR2021/019527)  
[87] (WO2022/139418)  
[30] KR (10-2020-0183085) 2020-12-24

[21] **3,203,171**  
[13] A1

[51] **Int.Cl. H01Q 1/36 (2006.01) H01Q 1/38 (2006.01) H01Q 13/08 (2006.01) H01Q 21/00 (2006.01)**  
[25] EN  
[54] **ANTENNA AND COMMUNICATION DEVICE**  
[54] **ANTENNE ET DISPOSITIF DE COMMUNICATION**  
[72] SHAO, JINJIN, CN  
[72] SHI, CAO, CN  
[72] HE, JUNFEI, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2023-06-22  
[86] 2021-10-19 (PCT/CN2021/124761)  
[87] (WO2022/134785)  
[30] CN (202011529058.7) 2020-12-22

[21] **3,203,173**  
[13] A1

[51] **Int.Cl. C07K 1/22 (2006.01) C07K 16/00 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01) H01J 49/26 (2006.01)**  
[25] EN  
[54] **METHOD FOR SMALL-RNA BIOMARKER IDENTIFICATION AND FUNCTIONAL EVALUATION OF CIRCULATING EXTRACELLULAR VESICLES COMPRISING EXOSOMES**  
[54] **PROCEDE D'IDENTIFICATION DE BIOMARQUEUR DE PETIT ARN ET EVALUATION FONCTIONNELLE DE VESICULES EXTRACELLULAIRES CIRCULANTES COMPRENANT DES EXOSOMES**  
[72] MITCHELL, MEGAN IRVETTE, US  
[72] LOUDIG, OLIVIER, US  
[72] KAMALI-MOGHADDAM, MASOOD, SE  
[71] HACKENSACK MERIDIAN HEALTH CENTER FOR DISCOVERY AND INNOVATION, US  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/US2021/065060)  
[87] (WO2022/140662)  
[30] US (63/130,545) 2020-12-24

[21] **3,203,174**  
[13] A1

[51] **Int.Cl. C12M 3/00 (2006.01)**  
[25] EN  
[54] **AUTOMATED CELL CULTURE DEVICE**  
[54] **DISPOSITIF DE CULTURE CELLULAIRE AUTOMATISE**  
[72] CHANG, HSUNLANG, CN  
[72] LIN, CHIENLIANG, CN  
[72] YANG, CHIHYA, CN  
[72] LIU, CHUNHSIEN, CN  
[71] MEDIGEN BIOTECHNOLOGY CORP., TW  
[85] 2023-06-22  
[86] 2021-05-25 (PCT/CN2021/095630)  
[87] (WO2022/134453)  
[30] CN (202011546306.9) 2020-12-23

[21] **3,203,176**  
[13] A1

[51] **Int.Cl. E21B 19/15 (2006.01) E02F 5/18 (2006.01) E21B 19/16 (2006.01) E21B 19/20 (2006.01)**  
[25] EN  
[54] **HORIZONTAL DIRECTIONAL DRILLING SYSTEM WITH DRILL STRING BREAKOUT MONITORING**  
[54] **SYSTEME DE FORAGE DIRECTIONNEL HORIZONTAL AVEC SURVEILLANCE DE RUPTURE DU TRAIN DE TIGES DE FORAGE**  
[72] OLSEN, NICHOLAS HANS, US  
[72] BELLOMA, ZACHARY TANNER, US  
[72] BRANDNER, JOSEPH ANTHONY, US  
[71] VERMEER MANUFACTURING COMPANY, US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064939)  
[87] (WO2022/140593)  
[30] US (63/129,876) 2020-12-23

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[21] **3,203,180**  
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR TCR REPROGRAMMING USING FUSION PROTEINS**  
[54] **COMPOSITIONS ET METHODES DE REPROGRAMMATION DE TCR A L'AIDE DE PROTEINES DE FUSION**  
[72] TIGHE, ROBERT, US  
[72] ARORA, POOJA, US  
[72] HOFMEISTER, ROBERT, US  
[72] GUTIERREZ, DARIO, US  
[72] MCCARTHY, DERRICK, US  
[72] FLEURY, MICHELLE, US  
[71] TCR2 THERAPEUTICS INC., US  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/US2021/065069)  
[87] (WO2022/140665)  
[30] US (63/129,829) 2020-12-23  
[30] US (63/225,821) 2021-07-26  
[30] US (63/250,329) 2021-09-30  
[30] US (63/257,345) 2021-10-19

[21] **3,203,183**  
[13] A1

[51] **Int.Cl. C09K 8/594 (2006.01) C09K 8/592 (2006.01) E21B 43/24 (2006.01)**  
[25] EN  
[54] **LIGNIN-BASED COMPOSITIONS AND RELATED HYDROCARBON SEPARATION METHODS**  
[54] **COMPOSITIONS A BASE DE LIGNINE ET PROCEDES DE SEPARATION D'HYDROCARBURES ASSOCIES**  
[72] SOMERVILLE, DESMOND ALEXANDER, MT  
[72] WAIBEL, PATRICK DIETER, MT  
[71] LIGNOSOL IP LIMITED, MT  
[85] 2023-06-22  
[86] 2022-04-05 (PCT/IB2022/053145)  
[87] (WO2022/214950)  
[30] GB (2104865.7) 2021-04-06  
[30] GB (2115987.6) 2021-11-08

[21] **3,203,184**  
[13] A1

[51] **Int.Cl. H04B 1/02 (2006.01) H04B 1/707 (2011.01) H04B 7/216 (2006.01)**  
[25] EN  
[54] **METHOD FOR EFFICIENT RETURN CHANNEL SPECTRUM UTILIZATION IN A COMMUNICATION SYSTEM SUPPORTING ADAPTIVE SPREAD SPECTRUM**  
[54] **PROCEDE POUR UNE UTILISATION EFFICACE DE SPECTRE DE CANAL DE RETOUR DANS UN SYSTEME DE COMMUNICATION PRENANT EN CHARGE UN SPECTRE ETALE ADAPTATIF**  
[72] AMBESKAR, NIMESH P., US  
[72] PUGAONKAR, ANIKET, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2023-06-22  
[86] 2021-12-29 (PCT/US2021/065500)  
[87] (WO2022/147116)  
[30] US (17/139,992) 2020-12-31

[21] **3,203,185**  
[13] A1

[51] **Int.Cl. C07G 1/00 (2011.01) C09K 8/20 (2006.01) C09K 8/582 (2006.01)**  
[25] EN  
[54] **LIGNIN-BASED COMPOSITIONS AND RELATED HYDROCARBON RECOVERY METHODS**  
[54] **COMPOSITIONS A BASE DE LIGNINE ET PROCEDES DE RECUPERATION D'HYDROCARBURE ASSOCIES**  
[72] SOMERVILLE, DESMOND ALEXANDER, MT  
[72] WAIBEL, PATRICK DIETER, MT  
[71] LIGNOSOL IP LIMITED, MT  
[85] 2023-06-22  
[86] 2022-04-05 (PCT/IB2022/053147)  
[87] (WO2022/214951)  
[30] GB (2104860.8) 2021-04-06  
[30] GB (2115987.6) 2021-11-08

[21] **3,203,186**  
[13] A1

[51] **Int.Cl. C11D 1/00 (2006.01) C11D 3/38 (2006.01) C11D 3/382 (2006.01) E21B 43/24 (2006.01)**  
[25] EN  
[54] **LIGNIN-BASED COMPOSITIONS AND RELATED CLEANING METHODS**  
[54] **COMPOSITIONS A BASE DE LIGNINE ET PROCEDES DE NETTOYAGE ASSOCIES**  
[72] SOMERVILLE, DESMOND ALEXANDER, MT  
[72] WAIBEL, PATRICK DIETER, MT  
[71] LIGNOSOL IP LIMITED, MT  
[85] 2023-06-22  
[86] 2022-04-05 (PCT/IB2022/053148)  
[87] (WO2022/214952)  
[30] GB (2104862.4) 2021-04-06  
[30] GB (2115987.6) 2021-11-08

[21] **3,203,187**  
[13] A1

[51] **Int.Cl. C08L 97/00 (2006.01) C09K 8/58 (2006.01) C09K 8/60 (2006.01) C09K 8/86 (2006.01) C09K 8/90 (2006.01) E21B 43/16 (2006.01) E21B 43/22 (2006.01)**  
[25] EN  
[54] **LIGNIN-BASED FRACTURING FLUIDS AND RELATED METHODS**  
[54] **FLUIDES DE FRACTURATION A BASE DE LIGNINE ET PROCEDES ASSOCIES**  
[72] SOMERVILLE, DESMOND ALEXANDER, MT  
[72] WAIBEL, PATRICK DIETER, MT  
[71] LIGNOSOL IP LIMITED, MT  
[85] 2023-06-22  
[86] 2022-04-05 (PCT/IB2022/053160)  
[87] (WO2022/214960)  
[30] GB (2104859.0) 2021-04-06  
[30] GB (2115987.6) 2021-11-08

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[21] **3,203,188**  
[13] A1

[51] **Int.Cl. A61K 31/438 (2006.01) A61P 1/08 (2006.01) C07D 471/10 (2006.01)**

[25] EN

[54] **USE OF NK1 ANTAGONIST PRODRUG COMPOUND IN COMBINATION WITH 5-HT3 RECEPTOR ANTAGONIST**

[54] **UTILISATION D'UN COMPOSE DE PROMEDICAMENT ANTAGONISTE DE NK1 EN ASSOCIATION AVEC UN ANTAGONISTE DU RECEPTEUR 5-HT3**

[72] XU, DAPING, CN  
[72] YANG, CHANGYONG, CN  
[72] LIAO, CHENG, CN  
[72] ZHANG, LIANSHAN, CN  
[72] HUANG, JIAN, CN  
[71] SHANGHAI SHENGGDI PHARMACEUTICAL CO., LTD., CN

[71] SHANGHAI SENHUI MEDICINE CO., LTD., CN

[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN

[85] 2023-06-22  
[86] 2021-12-24 (PCT/CN2021/141009)  
[87] (WO2022/135549)  
[30] CN (202011559059.6) 2020-12-25  
[30] CN (202111066727.6) 2021-09-13

[21] **3,203,189**  
[13] A1

[51] **Int.Cl. A61B 1/227 (2006.01) A61F 11/00 (2022.01)**

[25] EN

[54] **SYSTEM FOR DIAGNOSIS OF AN OTITIS MEDIA VIA A PORTABLE DEVICE**

[54] **SYSTEME DE DIAGNOSTIC D'UNE OTITE MOYENNE PAR L'INTERMEDIAIRE D'UN DISPOSITIF PORTABLE**

[72] HARTNICK, CHRISTOPHER J., US  
[72] COHEN, MICHAEL S., US  
[72] CROWSON, MATTHEW G., US  
[72] BENBOUJJA, FOUZI, US  
[71] MASSACHUSETTS EYE AND EAR INFIRMARY, US

[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064980)  
[87] (WO2022/140619)  
[30] US (63/130,368) 2020-12-23  
[30] US (63/271,027) 2021-10-22

[21] **3,203,191**  
[13] A1

[51] **Int.Cl. A61B 17/11 (2006.01) A61B 34/30 (2016.01)**

[25] EN

[54] **LYMPHATIC ANASTOMOSIS DEVICES AND METHODS**

[54] **DISPOSITIFS ET PROCEDES D'ANASTOMOSE LYMPHATIQUE**

[72] SINGHAL, DHRUV, US  
[72] SINGHAL, KIERAN, US  
[72] KUESTER, WILLIAM, III, US  
[71] BETH ISRAEL DEACONESS MEDICAL CENTER, INC., US

[85] 2023-06-22  
[86] 2021-12-23 (PCT/US2021/065126)  
[87] (WO2022/140690)  
[30] US (17/133,277) 2020-12-23

[21] **3,203,192**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/19 (2006.01) A61K 31/352 (2006.01) A61K 31/728 (2006.01) A61K 31/733 (2006.01) A61K 45/06 (2006.01) A61P 1/00 (2006.01) A61P 1/04 (2006.01)**

[25] EN

[54] **A COMPOSITION FOR USE IN THE TREATMENT OF RECTAL AND/OR INTESTINAL INFLAMMATION**

[54] **COMPOSITION DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT D'UNE INFLAMMATION RECTALE ET/OU INTESTINALE**

[72] PRUTCHI SAGIV, SARI, IL  
[71] CANNAMORE BIOTECHS LTD., IL

[85] 2023-06-22  
[86] 2021-12-30 (PCT/IL2021/051560)  
[87] (WO2022/144897)  
[30] US (63/132,527) 2020-12-31

[21] **3,203,193**  
[13] A1

[51] **Int.Cl. E05B 19/00 (2006.01) E05B 65/00 (2006.01) G07C 9/00 (2020.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR INTEGRATING KEY ACCESS CONTROL OF LEGACY LOCKABLE ARTICLES INTO A CONTROL SYSTEM AND ASSOCIATED LOCK BOXES**

[54] **SYSTEME ET PROCEDE POUR INTEGRER LA COMMANDE D'ACCES AUX CLES D'ARTICLES VERROUILLABLES EXISTANTS DANS UN SYSTEME DE COMMANDE ET COFFRETS VERROUILLES ASSOCIES**

[72] GRELLA, JOSEPH E., US  
[71] RAYTHEON COMPANY, US

[85] 2023-06-22  
[86] 2021-11-19 (PCT/US2021/060219)  
[87] (WO2022/159167)  
[30] US (17/152,652) 2021-01-19

[21] **3,203,194**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR IMPLEMENTING A MULTI-TURN ROTARY CONCEPT IN AN ACTUATOR MECHANISM OF A SURGICAL ROBOTIC ARM**

[54] **SYSTEME ET PROCEDE DE MISE EN OEUVRE D'UN CONCEPT ROTATIF MULTITOUR DANS UN MECANISME D'ACTIONNEUR D'UN BRAS ROBOTIQUE CHIRURGICAL**

[72] KINCAID, MATTHEW, US  
[72] FISH, RYAN, US  
[71] VICARIOUS SURGICAL INC., US

[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064974)  
[87] (WO2022/140614)  
[30] US (63/129,313) 2020-12-22

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[21] **3,203,195**  
[13] A1

[51] **Int.Cl. C12N 9/04 (2006.01) C12N 9/10 (2006.01) C12N 9/88 (2006.01) C12N 15/52 (2006.01) C12N 15/77 (2006.01) C12P 19/04 (2006.01)**

[25] EN

[54] **GLYCOSYLTRANSFERASE DEFICIENT CORYNEBACTERIUM FOR THE PRODUCTION OF FUCOSYLLACTOSE**

[54] **CORYNEBACTERIUM DEFICIENT EN GLYCOSYLTRANSFERASE POUR LA PRODUCTION DE FUCOSYLLACTOSE**

[72] REDDY KATHA, UMA MAHESWA, DE

[72] KUBALLA, JURGEN, DE

[71] GALAB LABORATORIES GMBH, DE

[85] 2023-06-22

[86] 2022-02-11 (PCT/EP2022/053368)

[87] (WO2022/171795)

[30] EP (21156553.6) 2021-02-11

[21] **3,203,197**  
[13] A1

[51] **Int.Cl. E06B 9/322 (2006.01) E06B 9/262 (2006.01)**

[25] EN

[54] **CORD WINDING ASSEMBLY, ACTUATING SYSTEM AND WINDOW SHADE**

[54] **ENSEMBLE D'ENROULEMENT DE CORDON, SYSTEME D'ACTIONNEMENT ET STORE DE FENETRE**

[72] HUANG, CHIEN-FONG, US

[72] HUANG, CHIN-TIEN, TW

[71] TEH YOR CO., LTD., TW

[85] 2023-06-22

[86] 2022-03-30 (PCT/US2022/022633)

[87] (WO2022/216501)

[30] US (63/171,344) 2021-04-06

[21] **3,203,198**  
[13] A1

[51] **Int.Cl. A01G 9/24 (2006.01)**

[25] EN

[54] **SYSTEM FOR MONITORING ENCLOSED GROWING ENVIRONMENT**

[54] **SYSTEME PERMETTANT DE SURVEILLER UN ENVIRONNEMENT DE CULTURE FERME**

[72] BALL, IVAN LEE, US

[72] MASSEY, SCOTT THOMAS, US

[71] HELIPONIX, LLC, US

[85] 2023-06-22

[86] 2022-01-27 (PCT/US2022/013995)

[87] (WO2022/164963)

[30] US (63/199,838) 2021-01-28

[21] **3,203,199**  
[13] A1

[51] **Int.Cl. B23C 5/06 (2006.01) B23C 5/20 (2006.01)**

[25] EN

[54] **METAL CUTTING MILLING TOOL**

[54] **OUTIL DE FRAISAGE DE COUPE DE METAL**

[72] BERGMAN, STEFAN, SE

[72] ROMAN, STEFAN, SE

[71] AB SANDVIK COROMANT, SE

[85] 2023-06-22

[86] 2022-01-24 (PCT/EP2022/051462)

[87] (WO2022/184343)

[30] EP (21160195.0) 2021-03-02

[21] **3,203,200**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/06 (2006.01) A61B 17/15 (2006.01) A61B 17/34 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR SEPTAL PUNCH AND DELIVERY AND MANEUVERING OF THERAPEUTIC DEVICE**

[54] **APPAREIL ET PROCEDE DE PERFORATION ET DE DISTRIBUTION SEPTALE, ET MANIPULATION DE DISPOSITIF THERAPEUTIQUE**

[72] HLAVKA, EDWIN, US

[71] PROTARYX MEDICAL INC., US

[85] 2023-06-22

[86] 2022-01-07 (PCT/US2022/011623)

[87] (WO2022/150593)

[30] US (63/136,050) 2021-01-11

[21] **3,203,202**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 7/02 (2006.01)**

[25] EN

[54] **NANOBODY TO GLYCOPROTEIN VI**

[54] **NANOCORPS DE GLYCOPROTEINE VI**

[72] SLATER, ALEXANDRE, GB

[72] POULTER, NATALIE SARAH, GB

[72] THOMAS, MARK ROBERT, GB

[72] WATSON, STEVE PAUL, GB

[71] THE UNIVERSITY OF BIRMINGHAM, GB

[85] 2023-06-22

[86] 2021-12-21 (PCT/EP2021/087129)

[87] (WO2022/136457)

[30] GB (2020602.5) 2020-12-24

[21] **3,203,203**  
[13] A1

[51] **Int.Cl. A61L 27/20 (2006.01) A61L 27/22 (2006.01) A61L 27/24 (2006.01) A61L 27/36 (2006.01) A61L 27/38 (2006.01) A61L 27/54 (2006.01)**

[25] EN

[54] **DECELLULARIZED MAMMALIAN EXTRACELLULAR MATRIX MORSELS, METHODS MAKING AND METHODS OF USING SAME**

[54] **FRAGMENTS DE MATRICE EXTRACELLULAIRE DE MAMMIFERE DECELLULARISES, PROCEDES DE FABRICATION ET METHODES D'UTILISATION DE CEUX-CI**

[72] MORGAN, JEFFREY R., US

[71] BROWN UNIVERSITY, US

[85] 2023-06-22

[86] 2021-12-22 (PCT/US2021/064834)

[87] (WO2022/140530)

[30] US (63/129,966) 2020-12-23

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[21] **3,203,204**  
[13] A1

[51] **Int.Cl. B32B 3/06 (2006.01) B32B 5/02 (2006.01) B32B 5/12 (2006.01) B32B 5/14 (2006.01) B32B 5/26 (2006.01) B32B 7/08 (2019.01) B32B 7/12 (2006.01) B32B 27/12 (2006.01) B32B 29/02 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **DECORATIVE PANEL AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS**

[54] **PANNEAU DECORATIF ET REVETEMENT DE SOL DECORATIF CONSTITUE DE CES PANNEAUX**

[72] BOUCKE, EDDY ALBERIC, BE  
[71] 14F LICENSING NV, BE  
[85] 2023-06-22  
[86] 2022-01-04 (PCT/EP2022/050093)  
[87] (WO2022/148754)  
[30] NL (2027270) 2021-01-05  
[30] NL (2027318) 2021-01-14

[21] **3,203,205**  
[13] A1

[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/4439 (2006.01) A61K 31/4545 (2006.01) A61K 31/47 (2006.01) A61K 31/4745 (2006.01) A61K 31/506 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61K 31/53 (2006.01) A61K 31/5377 (2006.01) A61K 31/555 (2006.01) A61K 31/704 (2006.01) A61K 31/7068 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMBINATIONS OF SOS1 INHIBITORS FOR TREATING AND/OR PREVENTING CANCER**

[54] **COMBINAISONS PHARMACEUTIQUES D'INHIBITEURS DE SOS1 POUR LE TRAITEMENT ET/OU LA PREVENTION DU CANCER**

[72] BHONDE, MANDAR RAMESH, IN  
[72] PATRA, SUKANYA, IN  
[72] PALLE, VENKATA P., IN  
[72] KAMBOJ, RAJENDER KUMAR, IN  
[71] LUPIN LIMITED, IN  
[85] 2023-06-22  
[86] 2022-01-19 (PCT/IB2022/050415)  
[87] (WO2022/157629)  
[30] IN (202121002487) 2021-01-19

[21] **3,203,206**  
[13] A1

[51] **Int.Cl. B44C 5/04 (2006.01)**

[25] EN

[54] **DECORATIVE PANEL, IN PARTICULAR A WALL, CEILING OR FLOOR PANEL, AND A COVERING CONSTRUCTED BY A MULTITUDE OF SUCH PANELS**

[54] **PANNEAU DECORATIF, EN PARTICULIER PANNEAU DE MUR, DE PLAFOND OU DE PLANCHER, ET REVETEMENT CONSTITUE D'UNE MULTITUDE DE TELS PANNEAUX**

[72] BOUCKE, EDDY ALBERIC, BE  
[71] 14F LICENSING NV, BE  
[85] 2023-06-22  
[86] 2022-01-07 (PCT/EP2022/050228)  
[87] (WO2022/148825)  
[30] NL (2027284) 2021-01-07

[21] **3,203,207**  
[13] A1

[51] **Int.Cl. C10M 149/12 (2006.01)**

[25] EN

[54] **THERMALLY RESPONSIVE BRUSH POLYMERS HAVING A COPOLYMER BACKBONE AND COPOLYMER ARMS**

[54] **POLYMERES EN BROsse THERMOSENSIBLES AYANT UN SQUELETTE DE COPOLYMERE ET DES BRAS DE COPOLYMERE**

[72] NGUYEN, NGA, US  
[72] LEWIS, RONALD M., US  
[72] BECER, REMZI, GB  
[72] CONCILIO, MATILDE, GB  
[71] INFINEUM INTERNATIONAL LIMITED, GB  
[85] 2023-06-22  
[86] 2021-12-21 (PCT/EP2021/087011)  
[87] (WO2022/136384)  
[30] US (63/130,474) 2020-12-24

[21] **3,203,208**  
[13] A1

[51] **Int.Cl. C07K 1/34 (2006.01) A23L 33/18 (2016.01) A61K 8/64 (2006.01) A61K 31/7036 (2006.01) A61P 3/10 (2006.01) A61P 9/12 (2006.01) A61P 37/02 (2006.01) A61P 39/06 (2006.01) C07K 1/30 (2006.01) C07K 1/36 (2006.01)**

[25] EN

[54] **MULTIFUNCTIONAL PANAX QUINQUEFOLIUS HYDROLYZED PEPTIDE AND PREPARATION METHOD AND APPLICATION THEREOF**

[54] **PEPTIDE HYDROLYSE DE GINSENG AMERICAIN MULTIFONCTIONNEL, PROCEDE DE PREPARATION S'Y RAPPORTANT ET SON APPLICATION**

[72] ZHANG, XUANMING, CN  
[72] LIU, KECHUN, CN  
[72] JIN, MENG, CN  
[72] LI, XIAOBIN, CN  
[72] ZHANG, YUN, CN  
[72] TU, PENGFEI, CN  
[72] ZHANG, SHANSHAN, CN  
[72] XIA, QING, CN  
[72] WANG, LIZHEN, CN  
[72] SHENG, WENLONG, CN  
[72] LI, PEIHAI, CN  
[71] BIOLOGY INSTITUTE OF SHANDONG ACADEMY OF SCIENCES, CN  
[85] 2023-06-22  
[86] 2022-10-28 (PCT/CN2022/128319)  
[87] (WO2023/088073)  
[30] CN (202111361840.7) 2021-11-17

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[21] **3,203,209**  
[13] A1

[51] **Int.Cl. H01M 4/04 (2006.01) H01M 10/0525 (2010.01) H01M 10/0568 (2010.01) H01M 4/36 (2006.01) H01M 4/62 (2006.01)**

[25] FR

[54] **METHOD FOR PREPARING AN ELECTRODE WITH HIGH LOAD PER UNIT OF MASS FILLED WITH ELECTROLYTE FOR A BATTERY WITH HIGH ENERGY DENSITY**

[54] **PROCEDE DE PREPARATION D'UNE ELECTRODE A CHARGE MASSIQUE ELEVEE REMPLIE D'ELECTROLYTE POUR BATTERIE A HAUTE DENSITE ENERGETIQUE**

[72] LIN, RONGYING, FR  
[72] FALGAYRAT, ANAIS, FR  
[71] SOLVIONIC, FR  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/FR2021/052450)  
[87] (WO2022/136810)  
[30] FR (FR2014133) 2020-12-24

[21] **3,203,210**  
[13] A1

[51] **Int.Cl. B23C 5/00 (2006.01) B23C 5/06 (2006.01) B23C 5/08 (2006.01) B23C 5/20 (2006.01)**

[25] EN

[54] **METAL CUTTING MILLING TOOL**

[54] **OUTIL DE FRAISAGE PAR COUPE DE METAL**

[72] BERGMAN, STEFAN, SE  
[72] ROMAN, STEFAN, SE  
[71] AB SANDVIK COROMANT, SE  
[85] 2023-06-22  
[86] 2022-01-24 (PCT/EP2022/051456)  
[87] (WO2022/184342)  
[30] EP (21160194.3) 2021-03-02

[21] **3,203,211**  
[13] A1

[51] **Int.Cl. G01N 33/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETECTING METHANE AND OTHER GASES USING A REMOTELY DEPLOYABLE, OFF-GRID SYSTEM**

[54] **SYSTEME ET PROCEDE DE DETECTION DE METHANE ET D'AUTRES GAZ A L'AIDE D'UN SYSTEME HORS RESEAU DEPLOYABLE A DISTANCE**

[72] CONLEY, STEPHEN A., US  
[72] RYERSON, THOMAS B., US  
[71] SCIENTIFIC AVIATION, INC., US  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/US2021/065111)  
[87] (WO2022/140684)  
[30] US (17/133,930) 2020-12-24

[21] **3,203,212**  
[13] A1

[51] **Int.Cl. F41A 33/06 (2006.01) F41B 11/62 (2013.01) G05D 16/02 (2006.01) G05D 16/10 (2006.01)**

[25] EN

[54] **DROP-IN SIMULATOR FOR LOWER RECEIVER AND METHODS OF MAKING THE SAME**

[54] **SIMULATEUR DE CHUTE POUR CARCASSE INFERIEURE ET PROCEDES DE FABRICATION ASSOCIES**

[72] FLEMING, PAUL HEATH, US  
[72] NAPIER, JAMES M., US  
[72] SHAVERS, DARREN, US  
[71] INVERIS TRAINING SOLUTIONS, INC., US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064997)  
[87] (WO2022/140632)  
[30] US (63/129,333) 2020-12-22  
[30] US (17/559,601) 2021-12-22

[21] **3,203,213**  
[13] A1

[51] **Int.Cl. C08G 12/06 (2006.01) C09J 177/02 (2006.01) C09J 179/02 (2006.01)**

[25] EN

[54] **BINDER COMPOSITION COMPRISING POLY(AMINO ACIDS) FOR FIBER COMPOSITE ARTICLES**

[54] **COMPOSITION DE LIANT COMPRENANT DES POLY(AMINOACIDE)S POUR DES ARTICLES COMPOSITES A BASE DE FIBRES**

[72] SOMMER, GEREON ANTONIUS, DE  
[72] WEINKOETZ, STEPHAN, DE  
[72] TUERP, DAVID, DE  
[72] SCHERR, GUENTER, DE  
[72] HAMANN, JESSICA NADINE, DE  
[72] TELES, JOAQUIM HENRIQUE, DE  
[72] LUNKWITZ, RALPH, DE  
[72] SERVAY, THOMAS, DE  
[72] LINDNER, JEAN-PIERRE BERKAN, DE  
[72] KUNSMANN-KEITEL, DAGMAR PASCALE, DE  
[71] BASF SE, DE  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/EP2021/087427)  
[87] (WO2022/136612)  
[30] EP (20216812.6) 2020-12-23  
[30] EP (20216816.7) 2020-12-23

[21] **3,203,214**  
[13] A1

[51] **Int.Cl. B01J 23/28 (2006.01) C07C 5/48 (2006.01) C07C 11/04 (2006.01)**

[25] EN

[54] **CATALYST MATERIALS WITH TUNABLE ACTIVITY**

[54] **MATERIAUX CATALYSEURS A ACTIVITE ACCORDABLE**

[72] SIMANZHENKOV, VASILY, CA  
[72] GAO, XIAOLIANG, CA  
[72] BARNES, MARIE, CA  
[72] DE WIT, PERRY, CA  
[71] NOVA CHEMICALS (INTERNATIONAL) S.A., CH  
[85] 2023-06-22  
[86] 2022-02-17 (PCT/IB2022/051431)  
[87] (WO2022/180489)  
[30] US (63/154,457) 2021-02-26

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[21] 3,203,215 [13] A1	[21] 3,203,217 [13] A1	[21] 3,203,218 [13] A1
[51] <b>Int.Cl. A23J 3/22 (2006.01) A23L 29/231 (2016.01) A23L 29/256 (2016.01) A23L 29/262 (2016.01) A23J 3/28 (2006.01) A23J 3/14 (2006.01) A23J 3/20 (2006.01)</b>	[51] <b>Int.Cl. C08G 12/06 (2006.01) C09J 177/02 (2006.01)</b>	[51] <b>Int.Cl. A01C 21/00 (2006.01) A01B 79/00 (2006.01) A01C 7/20 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>A PROCESS FOR PREPARING A VEGAN EDIBLE PRODUCT FROM EDIBLE NON-ANIMAL PROTEINS</b>	[54] <b>BINDER COMPOSITION COMPRISING POLYAMINE(S) AND HYDROXYACETONE FOR COMPOSITE ARTICLES</b>	[54] <b>METHOD FOR DETERMINING FIELD- OR ZONE-SPECIFIC SEEDING RATE, DEPTH, AND TIME FOR PLANTING A CROP IN AN AGRICULTURAL FIELD BASED ON MULTIPLE DATA INPUTS SUCH AS CROP, FIELD, YIELD, WEATHER, AND/OR SOIL DATA</b>
[54] <b>PROCEDE DE PREPARATION D'UN PRODUIT COMESTIBLE VEGAN A PARTIR DE PROTEINES NON ANIMALES COMESTIBLES</b>	[54] <b>COMPOSITION DE LIANT COMPRENANT UNE OU DES POLYAMINES ET DE L'HYDROXYACETONE POUR ARTICLES COMPOSITES</b>	[54] <b>PROCEDE POUR DETERMINER UN TAUX D'ENSEMENCEMENT SPECIFIQUE D'UN CHAMP OU D'UNE ZONE, LA PROFONDEUR ET LE TEMPS POUR PLANTER UNE CULTURE DANS UN CHAMP AGRICOLE SUR LA BASE DE MULTIPLES ENTREES DE DONNEES TELLES QUE DES DONNEES DE CULTURE, DE CHAMP, DE RENDEMENT, DE CONDITIONS METEOROLOGIQUES ET/OU DE SOL</b>
[72] SCHNEIDER, WOLFGANG, DE	[72] SOMMER, GEREON ANTONIUS, DE	[72] LOPES AGNESE, MAURICIO, DE
[72] GRABER, ALEXANDER, DE	[72] SCHERR, GUENTER, DE	[72] KIEPE, BJOERN, DE
[72] HEYL, ANDREAS, DE	[72] WEINKOETZ, STEPHAN, DE	[72] HOSS-KUHNE, MOLLIE JO, DE
[72] SPORKA, RADOVAN, DE	[72] LINDNER, JEAN-PIERRE BERKAN, DE	[72] CASADEBAIG, JEROME, FR
[71] BK GIULINI GMBH, DE	[72] KUNSMANN-KEITEL, DAGMAR PASCALE, DE	[72] PASOLIUS VEKSEL, VAGNER, DE
[85] 2023-06-22	[72] LUNKWITZ, RALPH, DE	[72] SCHMEER, HUBERT, DE
[86] 2022-02-09 (PCT/EP2022/053065)	[72] TUERP, DAVID, DE	[72] DE EUSTAQUIO RESENDE, FABRISIO, BR
[87] (WO2022/171646)	[71] BASF SE, DE	[71] BASF AGRO TRADEMARKS GMBH, DE
[30] EP (21156341.6) 2021-02-10	[85] 2023-06-22	[85] 2023-06-22
	[86] 2021-12-22 (PCT/EP2021/087430)	[86] 2021-12-17 (PCT/EP2021/086610)
	[87] (WO2022/136614)	[87] (WO2022/136182)
	[30] EP (20216816.7) 2020-12-23	[30] EP (20216859.7) 2020-12-23
<b>[21] 3,203,216</b> [13] A1		
[51] <b>Int.Cl. A23J 3/22 (2006.01) A23L 29/231 (2016.01) A23L 29/256 (2016.01) A23L 29/262 (2016.01) A23J 3/28 (2006.01) A23J 3/14 (2006.01) A23J 3/20 (2006.01)</b>		
[25] EN		
[54] <b>A PROCESS FOR PREPARING A VEGAN EDIBLE PRODUCT FROM EDIBLE NON-ANIMAL PROTEINS</b>		
[54] <b>PROCEDE DE PREPARATION D'UN PRODUIT COMESTIBLE VEGANE A PARTIR DE PROTEINES NON ANIMALES COMESTIBLES</b>		
[72] SCHNEIDER, WOLFGANG, DE		
[72] GRABER, ALEXANDER, DE		
[72] HEYL, ANDREAS, DE		
[72] SPORKA, RADOVAN, DE		
[72] RANGER, LENA-MARIE, DE		
[72] GRUTZNER, THOMAS, DE		
[71] BK GIULINI GMBH, DE		
[85] 2023-06-22		
[86] 2022-02-09 (PCT/EP2022/053066)		
[87] (WO2022/171647)		
[30] EP (21156346.5) 2021-02-10		



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[21] **3,203,219**  
[13] A1

[51] **Int.Cl. E21B 47/01 (2012.01) E21B 47/017 (2012.01) E21B 47/0228 (2012.01) E21B 47/085 (2012.01) E21B 47/092 (2012.01) E21B 47/13 (2012.01) E21B 31/06 (2006.01) E21B 47/022 (2012.01)**

[25] EN

[54] **WELLBORE MAGNETIC TOOL APPARATUS FOR USE IN MEASUREMENT WHILE DRILLING**

[54] **APPAREIL D'OUTIL MAGNETIQUE DE Puits DE FORAGE DESTINE A ETRE UTILISE POUR EFFECTUER DES MESURES PENDANT LE FORAGE**

[72] BORISOV, GENADI, CA  
[72] PANKRATZ, HEATHER JEAN GRACE, CA  
[72] KROKOSZ, DOUGLAS CORY, CA  
[71] PROFORMA ENGINEERING LTD., CA  
[85] 2023-06-22  
[86] 2021-11-25 (PCT/CA2021/051685)  
[87] (WO2022/133580)  
[30] US (63/128,976) 2020-12-22

[21] **3,203,220**  
[13] A1

[51] **Int.Cl. C08G 12/06 (2006.01) C09J 177/02 (2006.01)**

[25] EN

[54] **BINDER COMPOSITION COMPRISING AMINO ACID POLYMER(S) AS WELL AS CARBOHYDRATES FOR COMPOSITE ARTICLES**

[54] **COMPOSITION DE LIANT COMPRENANT UN OU PLUSIEURS POLYMERES D'ACIDE AMINE AINSI QUE DES GLUCIDES POUR ARTICLES COMPOSITES**

[72] SOMMER, GEREON ANTONIUS, DE  
[72] WEINKOTZ, STEPHAN, DE  
[72] TUERP, DAVID, DE  
[72] LUNKWITZ, RALPH, DE  
[72] FUEGER, CLAUS, DE  
[72] SCHERR, GUENTER, DE  
[72] HAMANN, JESSICA NADINE, DE  
[72] TELES, JOAQUIM HENRIQUE, DE  
[72] LINDNER, JEAN-PIERRE BERKAN, DE  
[72] KUNSMANN-KEITEL, DAGMAR PASCALE, DE  
[72] SERVAY, THOMAS, DE  
[71] BASF SE, DE  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/EP2021/087426)  
[87] (WO2022/136611)  
[30] EP (20216812.6) 2020-12-23

[21] **3,203,222**  
[13] A1

[51] **Int.Cl. G01K 11/20 (2006.01)**

[25] EN

[54] **TEMPERATURE SENSITIVE PROBE**

[54]

[72] NISHIKAWA, MASAHIRO, JP  
[72] LIU, MING, JP  
[72] MIZUOCHI, NORIKAZU, JP  
[72] OHKI, IZURU, JP  
[72] FUJIWARA, MASANORI, JP  
[71] DAICEL CORPORATION, JP  
[71] KYOTO UNIVERSITY, JP  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/JP2021/047991)  
[87] (WO2022/138854)  
[30] JP (2020-216735) 2020-12-25

[21] **3,203,221**  
[13] A1

[51] **Int.Cl. G01N 33/487 (2006.01)**

[25] EN

[54] **A SYSTEM, A METHOD AND A DEVICE FOR SCREENING A DISEASE IN A SUBJECT**

[54] **SYSTEME, METHODE ET DISPOSITIF DE DEPISTAGE D'UNE MALADIE CHEZ UN SUJET**

[72] GIRO BENET, JUDIT, ES  
[72] CHEN, PO-AN, TW  
[71] THE BLUE BOX BIOMEDICAL SOLUTIONS, SL, ES  
[85] 2023-06-22  
[86] 2021-12-27 (PCT/EP2021/087672)  
[87] (WO2022/144332)  
[30] US (63/131,188) 2020-12-28

[21] **3,203,223**  
[13] A1

[51] **Int.Cl. D21H 19/68 (2006.01) B41M 5/52 (2006.01) D21H 19/82 (2006.01)**

[25] EN

[54] **A METHOD AND DEVICE FOR PRODUCING A DECORATIVE PAPER AND AN OBJECT WITH SUCH A PAPER**

[54] **PROCEDE ET DISPOSITIF DE PRODUCTION D'UN PAPIER DECORATIF, ET OBJET COMPORTANT UN TEL PAPIER DECORATIF**

[72] KOPP, TORSTEN, DE  
[72] KALWA, NORBERT, DE  
[71] SWISS KRONO TEC AG, CH  
[85] 2023-06-22  
[86] 2022-01-13 (PCT/EP2022/050689)  
[87] (WO2022/152814)  
[30] EP (EP21151856) 2021-01-15

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[21] **3,203,224**  
[13] A1

[51] **Int.Cl. C22B 3/06 (2006.01) C22B 3/22 (2006.01)**  
[25] EN  
[54] **RECOVERY OF METAL FROM LEACH PROCESSING**  
[54] **RECUPERATION DE METAL A PARTIR D'UN TRAITEMENT DE LIXIVIATION**  
[72] KUJAWA, CHRISTIAN, US  
[72] FLORMAN, WILLIAM R., US  
[71] EXTRAKT PROCESS SOLUTIONS, LLC, US  
[85] 2023-06-22  
[86] 2022-01-24 (PCT/US2022/013446)  
[87] (WO2022/159785)  
[30] US (63/140,548) 2021-01-22  
[30] US (63/147,981) 2021-02-10

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[21] **3,203,225**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**  
[25] EN  
[54] **ANTI-HVEM ANTIBODIES**  
[54] **ANTICORPS ANTI-HVEM**  
[72] HEILAND, TERI, US  
[72] LIU, WENHAI, US  
[71] IMMUNOMIC THERAPEUTICS, INC., US  
[85] 2023-06-22  
[86] 2021-12-29 (PCT/US2021/065491)  
[87] (WO2022/147108)  
[30] US (63/131,829) 2020-12-30

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[21] **3,203,226**  
[13] A1

[51] **Int.Cl. F24F 8/22 (2021.01) A61L 9/20 (2006.01) F24F 13/20 (2006.01)**  
[25] EN  
[54] **AIR PURIFICATION AND SURFACE STERILIZATION SYSTEMS INTEGRATABLE INTO BUILDING STRUCTURES AND FURNITURE SYSTEMS**  
[54] **SYSTEMES DE PURIFICATION D'AIR ET DE STERILISATION DE SURFACE POUVANT ETRE INTEGRES DANS DES STRUCTURES DE BATIMENTS ET DES SYSTEMES DE MOBILIER**  
[72] FRANTZ, WILLIAM H., US  
[72] WIKER, ANTHONY L., US  
[72] WALTEMYER, ALEXANDRA G., US  
[72] BAXTER, MEREDITH G., US  
[71] ARMSTRONG WORLD INDUSTRIES, INC., US  
[85] 2023-06-22  
[86] 2021-12-16 (PCT/US2021/063921)  
[87] (WO2022/146716)  
[30] US (63/132,815) 2020-12-31

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[21] **3,203,227**  
[13] A1

[51] **Int.Cl. B64D 9/00 (2006.01) B64C 39/02 (2023.01) B64D 1/00 (2006.01) B64D 39/04 (2006.01)**  
[25] EN  
[54] **UNMANNED AIRCRAFT PAYLOAD SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE DE CHARGE UTILE D'AERONEF SANS PILOTE**  
[72] GRAY, SCOTT, CA  
[72] PALE CZNY, TODD, CA  
[71] AVIDRONE AEROSPACE INCORPORATED, CA  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/IB2021/062270)  
[87] (WO2022/137202)  
[30] US (63/130,481) 2020-12-24

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[21] **3,203,228**  
[13] A1

[51] **Int.Cl. B25J 21/02 (2006.01) B65B 1/32 (2006.01) B65B 5/04 (2006.01)**  
[25] EN  
[54] **DEVICE AND METHOD FOR HANDLING VOLATILE POWDERS**  
[54]  
[72] CERLES, DOMINIQUE, FR  
[72] NURDIN, GUILLAUME, FR  
[72] BOCACCIO, ARISTIDE, FR  
[71] THALES, FR  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/EP2021/087190)  
[87] (WO2022/136494)  
[30] FR (FR2013999) 2020-12-23

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[21] **3,203,229**  
[13] A1

[51] **Int.Cl. A61B 5/1486 (2006.01) A61B 5/1468 (2006.01)**  
[25] EN  
[54] **ANALYTE SENSORS WITH REDUCED INTERFERENT SIGNAL AND METHODS**  
[54] **CAPTEURS D'ANALYTE A SIGNAL D'INTERFERENCE REDUIT ET PROCEDES**  
[72] HOSS, UDO, US  
[72] OUYANG, TIANMEI, US  
[72] FELDMAN, BENJAMIN J., US  
[72] QIAN, SUYUE, US  
[71] ABBOTT DIABETES CARE INC., US  
[85] 2023-06-22  
[86] 2021-06-15 (PCT/US2021/037322)  
[87] (WO2022/139876)  
[30] US (63/129,874) 2020-12-23

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[21] **3,203,230**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/7016 (2006.01) A61K 45/06 (2006.01) A61K 47/34 (2017.01) A61P 19/08 (2006.01) A61P 19/10 (2006.01)**

[25] FR

[54] **DISACCHARIDES FOR TREATING BONE DISEASES**

[54] **DISACCHARIDES DESTINES AU TRAITEMENT DES MALADIES DE L'OS**

[72] AUSSEIL, JEROME, FR

[72] KOVENSKY, JOSE, FR

[72] TOUMIEUX, SYLVESTRE, FR

[72] TRECHEREL, FR

[72] DUSSOUY, CHRISTOPHE, FR

[71] UNIVERSITE DE PICARDIE JULES VERNE, FR

[71] CENTRE HOSPITALIER UNIVERSITAIRE D'AMIENS-PICARDIE, FR

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

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[85] 2023-06-22

[86] 2021-12-20 (PCT/FR2021/052408)

[87] (WO2022/144515)

[30] FR (FR2014257) 2020-12-30

[21] **3,203,231**  
[13] A1

[51] **Int.Cl. B65D 25/38 (2006.01) B65D 25/54 (2006.01) B65D 83/06 (2006.01)**

[25] EN

[54] **CONTAINER FOR TRANSPORTING VOLATILE POWDERS**

[54]

[72] CERLES, DOMINIQUE, FR

[72] NURDIN, GUILLAUME, FR

[72] BOCACCIO, ARISTIDE, FR

[71] THALES, FR

[85] 2023-06-22

[86] 2021-12-22 (PCT/EP2021/087191)

[87] (WO2022/136495)

[30] FR (FR2014000) 2020-12-23

[21] **3,203,232**  
[13] A1

[51] **Int.Cl. C12N 5/10 (2006.01) C12N 15/113 (2010.01) C12N 7/01 (2006.01) C12N 15/12 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING NAIVE HUMAN IPS CELLS FROM SOMATIC CELLS**

[54] **PROCEDE DE PRODUCTION DE CELLULES SOUCHES PLURIPOTENTES HUMAINES NAIVES A PARTIR DE CELLULES SOMATIQUES**

[72] KUNITOMI, AKIRA, JP

[72] SHU, TSUGUMINE, JP

[72] KAWAGUCHI, JITSUTARO, JP

[71] KYOTO UNIVERSITY, JP

[71] ID PHARMA CO., LTD., JP

[85] 2023-06-22

[86] 2021-12-24 (PCT/JP2021/048397)

[87] (WO2022/138964)

[30] JP (2020-217472) 2020-12-25

[21] **3,203,233**  
[13] A1

[51] **Int.Cl. B32B 1/02 (2006.01)**

[25] EN

[54] **A RECYCLABLE PAPER-BASED LAMINATE AND A BEVERAGE CARTON MADE THEREFROM**

[54] **STRATIFIE A BASE DE PAPIER RECYCLABLE ET BOITE PLIANTE EN CARTON DE BOISSON FABRIQUEE A PARTIR DE CE DERNIER**

[72] ZIMMER, JOHANNES, CH

[72] VISHTAL, ALEXEY, CH

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

[85] 2023-06-22

[86] 2022-02-18 (PCT/EP2022/054039)

[87] (WO2022/175430)

[30] EP (21158344.8) 2021-02-22

[21] **3,203,234**  
[13] A1

[51] **Int.Cl. G16H 80/00 (2018.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR A TELECARE COMMUNICATION SYSTEM**

[54] **PROCEDES ET APPAREIL POUR SYSTEME DE COMMUNICATION DE SOINS A DISTANCE**

[72] MASUD, MUHAMMAD, US

[72] MOWZON, NIMA, US

[72] ERKOC, MURAT, US

[71] TELESPECIALISTS, LLC, US

[85] 2023-06-22

[86] 2021-12-14 (PCT/US2021/063173)

[87] (WO2022/140100)

[30] US (63/130,046) 2020-12-23

[30] US (17/476,883) 2021-09-16

[21] **3,203,235**  
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61P 1/16 (2006.01)**

[25] EN

[54] **TREATMENT OF CHOLANGIOPATHIES WITH SELADELPAR**

[54] **TRAITEMENT DE CHOLANGIOPATHIES AVEC LE SELADELPAR**

[72] CHOI, YUN-JUNG, US

[72] MCWHERTER, CHARLES A., US

[72] STEINBERG, ALEXANDRA S., US

[72] YANG, KE, US

[71] CYMABAY THERAPEUTICS, US

[85] 2023-06-22

[86] 2022-01-29 (PCT/US2022/014464)

[87] (WO2022/165288)

[30] US (63/144,355) 2021-02-01

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[21] **3,203,236**  
[13] A1

[51] **Int.Cl. B65G 47/08 (2006.01) B65B 21/04 (2006.01) B65B 21/06 (2006.01)**  
[25] EN  
[54] **AN ARTICLE PICKING AND PLACING SYSTEM**  
[54] **SYSTEME DE SAISIE ET DE MISE EN PLACE D'ARTICLE**  
[72] FERREIRA, GLENN, BE  
[72] DEKOCKER, WIM, BE  
[72] DUPERRAY, PHILIPPE JEAN MARIE, FR  
[72] PEELMAN, MANU, BE  
[72] VAN MOER, TOM, BE  
[72] LAMBRECHTS, KRISTOF, BE  
[72] TRIEST, FREDERIK, BE  
[72] ROMBAUT, DAVID, BE  
[71] ANHEUSER-BUSCH INBEV S.A., BE  
[85] 2023-06-22  
[86] 2021-12-21 (PCT/EP2021/087084)  
[87] (WO2022/136427)  
[30] BE (BE2020/5971) 2020-12-23

[21] **3,203,237**  
[13] A1

[51] **Int.Cl. H05B 47/115 (2020.01)**  
[25] EN  
[54] **DEVICE FOR EMITTING ELECTROMAGNETIC RADIATION AND/OR SOUND WAVES**  
[54] **DISPOSITIF DESTINE A EMETTRE UN RAYONNEMENT ELECTROMAGNETIQUE ET/OU DES ONDES SONORES**  
[72] GRAU, TOBIAS, DE  
[71] TIPSYCONTROL GMBH, DE  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/EP2021/087325)  
[87] (WO2022/136564)  
[30] DE (10 2020 134 895.9) 2020-12-23

[21] **3,203,239**  
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) C07K 14/52 (2006.01) C07K 14/54 (2006.01) C07K 14/55 (2006.01) C07K 14/555 (2006.01) C07K 14/56 (2006.01) C07K 14/57 (2006.01) C12N 15/62 (2006.01)**  
[25] EN  
[54] **IMMUNOCYTOKINES AND USES THEREOF**  
[54] **IMMUNOCYTOKINES ET UTILISATIONS ASSOCIEES**  
[72] WU, ELLEN, US  
[72] WU, XIAOYUN, US  
[72] WAKEFIELD, JOHN, US  
[71] IMMUNOWAKE INC., US  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/US2021/073107)  
[87] (WO2022/140797)  
[30] US (63/130,339) 2020-12-23

[21] **3,203,240**  
[13] A1

[51] **Int.Cl. B01D 69/02 (2006.01)**  
[25] EN  
[54] **CONTAINER FOR RELEASING VOLATILE SUBSTANCES**  
[54] **RECIPIENT DESTINE A LA LIBERATION DE SUBSTANCES VOLATILES**  
[72] MORHAIN, CEDRIC, IT  
[72] DEFLORIAN, STEFANO, IT  
[71] ZOBELE HOLDING, SPA, IT  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/EP2021/087473)  
[87] (WO2022/144297)  
[30] EP (20217394.4) 2020-12-28

[21] **3,203,241**  
[13] A1

[51] **Int.Cl. A61K 31/4174 (2006.01)**  
[25] EN  
[54] **DEXMEDETOMIDINE TREATMENT REGIMENS**  
[54] **SCHEMAS THERAPEUTIQUES A DEXMEDETOMIDINE**  
[72] RISINGER, ROBERT, US  
[72] SABADOS, JEFFREY R., US  
[72] ADEDOYIN, ADEDAYO, US  
[72] RAJACHANDRAN, LAVANYA, US  
[71] BIOXCEL THERAPEUTICS, INC., US  
[85] 2023-06-22  
[86] 2022-01-04 (PCT/US2022/011130)  
[87] (WO2022/147537)  
[30] US (63/133,593) 2021-01-04  
[30] US (63/156,703) 2021-03-04  
[30] US (63/168,995) 2021-03-31  
[30] US (63/180,284) 2021-04-27  
[30] US (63/218,965) 2021-07-07

[21] **3,203,242**  
[13] A1

[51] **Int.Cl. B66B 17/12 (2006.01) C04B 28/18 (2006.01)**  
[25] EN  
[54] **ELEVATOR ELEMENT, MANUFACTURING METHOD THEREOF AND ELEVATOR**  
[54] **ELEMENT D'ASCENSEUR, SON PROCEDE DE FABRICATION ET ASCENSEUR**  
[72] TALONEN, TAPANI, FI  
[71] KONE CORPORATION, FI  
[85] 2023-06-22  
[86] 2021-02-04 (PCT/FI2021/050079)  
[87] (WO2022/167713)

[21] **3,203,243**  
[13] A1

[51] **Int.Cl. A23J 3/14 (2006.01) A23L 13/40 (2023.01) A23P 30/20 (2016.01) B29C 48/14 (2019.01) B29C 48/295 (2019.01) A23J 3/26 (2006.01)**  
[25] EN  
[54] **PROGRESSIVE HYDRATION AND POST-PROCESSING SYSTEM**  
[54] **SYSTEME D'HYDRATATION ET DE POST-TRAITEMENT PROGRESSIFS**  
[72] LAGALLY, CHRISTIE, US  
[72] GRUBB, CHLOE, US  
[72] O'DONNELL, JULIA, US  
[72] BEHR, JEFFRAY, US  
[71] SEATTLE FOOD TECH, INC., US  
[85] 2023-06-22  
[86] 2021-11-03 (PCT/US2021/057950)  
[87] (WO2022/139959)  
[30] US (63/130,369) 2020-12-23

[21] **3,203,244**  
[13] A1

[51] **Int.Cl. F24H 1/18 (2022.01) F24H 15/212 (2022.01) F24H 15/375 (2022.01)**  
[25] EN  
[54] **HOT WATER SUPPLY SYSTEM**  
[54] **SYSTEME D'ALIMENTATION EN EAU CHAUDE**  
[72] SAKAGUCHI, HIDEHO, JP  
[72] OKAMOTO, TETSUYA, JP  
[72] UKIBUNE, MASANORI, JP  
[71] DAIKIN INDUSTRIES, LTD., JP  
[85] 2023-06-22  
[86] 2021-12-21 (PCT/JP2021/047399)  
[87] (WO2022/145297)  
[30] JP (2020-218484) 2020-12-28

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[21] **3,203,245**  
[13] A1

[51] **Int.Cl. C10L 1/14 (2006.01) C10L 10/04 (2006.01) C10L 1/198 (2006.01) C10L 1/222 (2006.01) C10L 1/224 (2006.01) C10L 1/238 (2006.01) C10L 1/2387 (2006.01)**

[25] EN

[54] **FUEL ADDITIVES AND FORMULATIONS FOR IMPROVING PERFORMANCE OF GASOLINE DIRECT INJECTION ENGINES**

[54] **ADDITIFS POUR CARBURANT ET FORMULATIONS POUR AMELIORER LES PERFORMANCES DE MOTEURS A INJECTION DIRECTE D'ESSENCE**

[72] BARTLEY, STUART L., US  
[72] PARKER, GARRETT, US  
[72] STEVENSON, PAUL R., GB  
[72] CLERON, JEREMY, US  
[72] GREENFIELD, HANNAH, GB  
[71] THE LUBRIZOL CORPORATION, US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064843)  
[87] (WO2022/140533)  
[30] US (63/130,097) 2020-12-23

[21] **3,203,246**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/22 (2006.01) A61K 31/33 (2006.01)**

[25] EN

[54] **PROGRESSIVE HYDRATION SYSTEM**

[54] **SYSTEME D'HYDRATATION PROGRESSIVE**

[72] LAGALLY, CHRISTIE, US  
[72] GRUBB, CHLOE, US  
[72] O'DONNELL, JULIA, US  
[71] SEATTLE FOOD TECH, INC., US  
[85] 2023-06-22  
[86] 2021-11-03 (PCT/US2021/057962)  
[87] (WO2022/139960)  
[30] US (63/130,369) 2020-12-23  
[30] US (17/518,499) 2021-11-03

[21] **3,203,248**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEMS, AND METHODS FOR PREPARING AN OUTPUT SAMPLE WITH AERATION**

[54] **APPAREIL, SYSTEMES ET PROCEDES DE PREPARATION D'UN ECHANTILLON DE SORTIE PRESENTANT UNE AERATION**

[72] RAJAN, NITIN K., US  
[72] THEISS, ANDREW H., US  
[72] KNOPFMACHER, OREN S., US  
[72] HERGET, MEIKE, US  
[72] LAUFER, MICHAEL D., US  
[72] PUTNEY, SUZANNE, US  
[72] DEAK, ESZTER, US  
[71] AVAILS MEDICAL, INC., US  
[85] 2023-06-22  
[86] 2022-01-25 (PCT/US2022/070339)  
[87] (WO2022/159989)  
[30] US (63/141,057) 2021-01-25  
[30] US (63/212,600) 2021-06-18

[21] **3,203,249**  
[13] A1

[51] **Int.Cl. A61F 5/44 (2006.01) A61F 5/441 (2006.01) A61F 5/443 (2006.01) A61F 5/451 (2006.01) A61F 5/453 (2006.01) A61F 5/455 (2006.01)**

[25] EN

[54] **DEVICES AND SYSTEMS FOR URINE COLLECTION**

[54] **DISPOSITIFS ET SYSTEMES DE COLLECTE D'URINE**

[72] KHARKAR, PRATHAMESH M., US  
[72] EKLUND, BRIAN J., US  
[72] BLABAS, BRETT C., US  
[71] SAGE PRODUCTS, LLC, US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064867)  
[87] (WO2022/140545)  
[30] US (63/129,729) 2020-12-23

[21] **3,203,251**  
[13] A1

[51] **Int.Cl. G06Q 30/00 (2023.01) G06Q 30/02 (2023.01)**

[25] EN

[54] **ESCALATION MANAGEMENT AND JOURNEY MINING**

[54] **GESTION D'ESCALADE ET EXPLORATION DE TRAJET**

[72] THIEL, WILL, US  
[71] POINTILLIST, INC., US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064803)  
[87] (WO2022/140512)  
[30] US (17/130,125) 2020-12-22

[21] **3,203,252**  
[13] A1

[51] **Int.Cl. G01F 15/075 (2006.01) G01F 25/10 (2022.01) G01F 25/17 (2022.01)**

[25] EN

[54] **PREVENTIVE MAINTENANCE OF FUEL DISPENSERS THROUGH INVENTORY RECONCILIATION AND IDENTIFICATION OF METER DRIFT**

[54] **ENTRETIEN PREVENTIF DE DISTRIBUTEURS DE CARBURANT PAR MISE EN CORRESPONDANCE D'INVENTAIRE ET IDENTIFICATION DE DERIVE DE COMPTEUR**

[72] SWAROOP, PREM, US  
[72] KAMBLE, ATISH, US  
[72] DEV, BODHAYAN, US  
[71] WAYNE FUELING SYSTEMS, LLC, US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/073085)  
[87] (WO2022/140789)  
[30] US (17/133,020) 2020-12-23

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[21] **3,203,253**  
[13] A1

[51] **Int.Cl. A61K 31/197 (2006.01) A61K 45/06 (2006.01)**  
[25] EN  
[54] **METHODS OF ADMINISTERING INTRAVENOUS BACLOFEN**  
[54] **PROCEDES D'ADMINISTRATION DE BACLOFENE INTRAVEINEUX**  
[72] DIAZ, GILBERTO, US  
[72] TATA, PRASAD, US  
[72] ALHADEFF, DAN SIMON, US  
[72] GOMEZ, ADOLFO L., US  
[72] SCHROGIE, JOHN, US  
[72] KRIEL, ROBERT L., US  
[72] KRACH, LINDA, US  
[72] CLOYD, JAMES C., US  
[72] COLES, LISA, US  
[72] SCHMITZ, NATALIE, US  
[71] ALLAYSIS, LLC, US  
[71] REGENTS OF THE UNIVERSITY OF MINNESOTA, US  
[85] 2023-06-22  
[86] 2021-12-17 (PCT/US2021/064055)  
[87] (WO2022/140181)  
[30] US (63/130,503) 2020-12-24

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[21] **3,203,254**  
[13] A1

[51] **Int.Cl. E21B 43/10 (2006.01) E21B 23/06 (2006.01)**  
[25] EN  
[54] **OPEN TIP DOWNHOLE EXPANSION TOOL**  
[54] **OUTIL D'EXPANSION DE FOND DE TROU A EXTREMITE OUVERTE**  
[72] URBAN, LARRY, US  
[72] ANDERSON, GARY, US  
[72] SHIRK, TYLER, US  
[72] WELCH, TANNER, US  
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US  
[85] 2023-06-22  
[86] 2021-12-17 (PCT/US2021/073010)  
[87] (WO2022/140750)  
[30] US (17/132,618) 2020-12-23

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[21] **3,203,257**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**  
[25] EN  
[54] **ANTI-B7-H3 ANTIBODY AND USES THEREOF**  
[54] **ANTICORPS ANTI-B7-H3 ET SES UTILISATIONS**  
[72] LI, LI, CN  
[72] FU, FENGGEN, CN  
[72] NI, HAIQING, CN  
[71] INNOVENT BIOLOGICS (SUZHOU) CO., LTD., CN  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/CN2021/140449)  
[87] (WO2022/135467)  
[30] CN (202011544445.8) 2020-12-23

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[21] **3,203,260**  
[13] A1

[51] **Int.Cl. G06N 3/00 (2023.01) G06N 5/02 (2023.01)**  
[25] EN  
[54] **CONFIDENCE CLASSIFIER WITHIN CONTEXT OF INTENT CLASSIFICATION**  
[54] **CLASSIFICATEUR DE CONFIANCE DANS UN CONTEXTE DE CLASSIFICATION D'INTENTION**  
[72] SUNDARAM, RAMASUBRAMANIAN, IN  
[72] BUDUGUPPA, PAVAN, IN  
[71] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US  
[85] 2023-06-22  
[86] 2021-10-11 (PCT/US2021/054380)  
[87] (WO2022/146524)  
[30] US (17/135,114) 2020-12-28

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[21] **3,203,261**  
[13] A1

[51] **Int.Cl. A61B 34/00 (2016.01) A61B 34/10 (2016.01) A61B 34/20 (2016.01)**  
[25] EN  
[54] **SURGICAL SYSTEM**  
[54] **SYSTEME CHIRURGICAL**  
[72] KENNY, BENJAMIN WILLIAM, AU  
[72] MCMAHON, SEAN MICHAEL, AU  
[71] PRECISION AI PTY LTD, AU  
[85] 2023-06-22  
[86] 2021-08-23 (PCT/AU2021/050936)  
[87] (WO2022/147591)  
[30] AU (2021900016) 2021-01-06

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[21] **3,203,262**  
[13] A1

[51] **Int.Cl. A47C 7/18 (2006.01) A47C 27/14 (2006.01) A47C 27/15 (2006.01) B60N 2/70 (2006.01) C08G 18/00 (2006.01) C08G 18/48 (2006.01)**  
[25] EN  
[54] **POLYURETHANE FOAM AND SEAT PAD**  
[54] **MOUSSE DE POLYURETHANE ET COUSSIN DE SIEGE**  
[72] MIKUNI, TAKUMI, JP  
[71] INOAC CORPORATION, JP  
[85] 2023-06-22  
[86] 2022-02-07 (PCT/JP2022/004708)  
[87] (WO2022/172895)  
[30] JP (2021-020786) 2021-02-12  
[30] JP (2021-072390) 2021-04-22

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[21] **3,203,263**  
[13] A1

[51] **Int.Cl. C10M 133/38 (2006.01)**  
[25] EN  
[54] **BENZAZEPINE COMPOUNDS AS ANTIOXIDANTS FOR LUBRICANT COMPOSITIONS**  
[54] **COMPOSES DE BENZAZEPINE UTILISES EN TANT QU'ANTIOXYDANTS POUR COMPOSITIONS LUBRIFIANTES**  
[72] CAPITOSTI, SCOTT, US  
[72] SACCOMANDO, DANIEL J., GB  
[72] CORRIGAN, THOMAS S., US  
[72] PALCHAK, ZACK, US  
[72] MYERSON, RICHARD J., GB  
[72] RODGERS, ZACH, US  
[72] HANTHORN, JASON J., US  
[72] RASIK, CHRISTOPHER M., US  
[72] GUO, BINBIN, US  
[72] ZHANG, YANSHI, US  
[72] BARTON, WILLIAM R.S., GB  
[71] THE LUBRIZOL CORPORATION, US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064771)  
[87] (WO2022/140496)  
[30] US (63/130,050) 2020-12-23

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[21] **3,203,264**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 21/64 (2006.01)**  
[25] EN  
[54] **SENSOR WITH MULTIPLE REACTION SITES PER PIXEL**  
[54] **CAPTEUR A MULTIPLES SITES DE REACTION PAR PIXEL**  
[72] REZAEI, MOHSEN, US  
[72] BUREK, MICHAEL, US  
[72] EMADI, ARVIN, US  
[72] VINCENT, LUDOVIC, US  
[71] ILLUMINA INC., US  
[85] 2023-06-22  
[86] 2022-03-02 (PCT/US2022/070928)  
[87] (WO2022/187835)  
[30] US (63/200,383) 2021-03-03

[21] **3,203,265**  
[13] A1

[51] **Int.Cl. G01C 21/32 (2006.01)**  
[25] EN  
[54] **METHOD, DEVICE AND SYSTEM FOR UPDATING MAP OF UNLOADING AREA OF OPEN PIT MINE**  
[54] **PROCEDE, DISPOSITIF ET SYSTEME POUR MISE A JOUR DE CARTE DE ZONE DE DECHARGEMENT DE MINE A CIEL OUVERT**  
[72] ZHAO, BIN, CN  
[72] TANG, JIANLIN, CN  
[72] YANG, CHAO, CN  
[71] JIANGSU XCMG CONSTRUCTION MACHINERY RESEARCH INSTITUTE LTD., CN  
[85] 2023-06-22  
[86] 2020-12-24 (PCT/CN2020/138939)  
[87] (WO2022/133885)

[21] **3,203,266**  
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/57 (2020.01) A24F 40/20 (2020.01)**  
[25] EN  
[54] **AEROSOL-GENERATING DEVICE AND SYSTEM COMPRISING AN INDUCTIVE HEATING DEVICE AND METHOD OF OPERATING THE SAME**  
[54] **DISPOSITIF ET SYSTEME DE GENERATION D'AEROSOL COMPRENANT UN DISPOSITIF DE CHAUFFAGE PAR INDUCTION ET PROCEDE DE FONCTIONNEMENT ASSOCIE**  
[72] BUTIN, YANNICK, CH  
[72] MOHSENI, FARHANG, CH  
[72] STURA, ENRICO, CH  
[72] NESOVIC, MILICA, CH  
[72] GATTONI, LUCAS, CH  
[71] PHILIP MORRIS PRODUCTS S.A., CH  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/EP2021/087573)  
[87] (WO2022/136674)  
[30] EP (20217040.3) 2020-12-23

[21] **3,203,267**  
[13] A1

[51] **Int.Cl. C08J 3/22 (2006.01) C08J 5/06 (2006.01) C08K 3/04 (2006.01) C08K 3/40 (2006.01) C08K 7/06 (2006.01) C08K 7/14 (2006.01) D06M 15/507 (2006.01) D06M 15/55 (2006.01)**  
[25] EN  
[54] **GRAPHENE ENHANCED SHEET MOLDING COMPOUND**  
[54] **COMPOSE DE MOULAGE DE FEUILLE AMELIORE AU GRAPHENE**  
[72] ASTHANA, SIDDHARTHA, US  
[72] PACHHA, RANJIT, CA  
[71] MAGNA EXTERIORS INC., CA  
[85] 2023-06-22  
[86] 2021-12-23 (PCT/US2021/065127)  
[87] (WO2022/140691)  
[30] US (63/130,136) 2020-12-23

[21] **3,203,270**  
[13] A1

[51] **Int.Cl. B07B 1/30 (2006.01) B01D 29/01 (2006.01) B01D 39/10 (2006.01)**  
[25] EN  
[54] **UNDULATING SHAKER SCREEN ASSEMBLY**  
[54] **ENSEMBLE TAMIS A SECOURSSES ONDULANT**  
[72] BISSETT, JAMES R., US  
[71] CONTINENTAL WIRE CLOTH, LLC, US  
[85] 2023-06-22  
[86] 2021-12-22 (PCT/US2021/064927)  
[87] (WO2022/140584)  
[30] US (63/130,049) 2020-12-23

[21] **3,203,276**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/497 (2006.01) A61P 3/10 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 495/04 (2006.01) C07D 513/04 (2006.01)**  
[25] EN  
[54] **FIVE-MEMBERED RING DERIVATIVE AND MEDICAL USE THEREOF**  
[54] **DERIVE A CINQ CHAINONS ET DERIVE CYCLIQUE A CINQ CHAINONS ET LEUR UTILISATION MEDICALE**  
[72] ZHANG, CHEN, CN  
[72] LEI, MING, CN  
[72] ZHAO, MINGLIANG, CN  
[72] YU, YAN, CN  
[72] TANG, PINGMING, CN  
[72] WENG, GUANGLIN, CN  
[72] MOU, TAO, CN  
[72] LI, YAO, CN  
[72] NI, JIA, CN  
[72] YAN, PANGKE, CN  
[71] SICHUAN HAISCO PHARMACEUTICAL CO., LTD., CN  
[85] 2023-06-22  
[86] 2021-12-24 (PCT/CN2021/141243)  
[87] (WO2022/135572)  
[30] CN (202011557297.3) 2020-12-25

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[21] **3,203,302**  
[13] A1

[51] **Int.Cl. A61L 27/44 (2006.01) A61K 35/12 (2015.01) A61L 27/20 (2006.01) A61L 27/34 (2006.01) A61L 27/38 (2006.01) A61L 27/50 (2006.01) A61L 27/58 (2006.01)**

[25] EN

[54] **NOVEL MULTILAYER POLYMER-COATED CROSSLINKED ALGINATE GEL FIBER**

[54] **NOUVELLE FIBRE DE GEL D'ALGINATE RETICULEE REVETUE D'UN POLYMERE MULTICOUCHE**

[72] FURUSAKO, SHOJI, JP  
[72] TSUDA, NAOTO, JP  
[72] SATOH, TSUTOMU, JP  
[72] NARUMI, TOMOHIRO, JP  
[72] SATO, SHINGO, JP  
[71] MOCHIDA PHARMACEUTICAL CO., LTD., JP

[85] 2023-06-23  
[86] 2021-12-27 (PCT/JP2021/048567)  
[87] (WO2022/145420)  
[30] JP (2020-219024) 2020-12-28  
[30] JP (2021-104094) 2021-06-23

[21] **3,203,312**  
[13] A1

[51] **Int.Cl. G21C 9/004 (2006.01) G21C 13/02 (2006.01)**

[25] EN

[54] **NATURAL CIRCULATION HEAT REMOVAL SYSTEM FOR A NUCLEAR REACTOR WITH PILE STRUCTURE**

[54] **SYSTEME D'ELIMINATION DE CHALEUR PAR CIRCULATION NATURELLE POUR REACTEUR NUCLEAIRE A STRUCTURE DE PILE**

[72] BASS, DEREK, US  
[72] LOEWEN, ERIC PAUL, US  
[72] LYSNE, HAAKEN, US  
[71] GE-HITACHI NUCLEAR ENERGY AMERICAS, US

[85] 2023-06-23  
[86] 2021-12-23 (PCT/US2021/065065)  
[87] (WO2022/146870)  
[30] US (17/134,894) 2020-12-28

[21] **3,203,317**  
[13] A1

[51] **Int.Cl. F41G 3/00 (2006.01) G01S 19/39 (2010.01) G01S 19/48 (2010.01) F41G 3/02 (2006.01) F41G 3/06 (2006.01) F41G 3/16 (2006.01) G01C 1/00 (2006.01) G01C 3/00 (2006.01) G01C 11/00 (2006.01) G01C 15/00 (2006.01) G01C 21/16 (2006.01) G01C 21/20 (2006.01) G01S 5/02 (2010.01) G01S 5/16 (2006.01)**

[25] FR

[54] **METHOD FOR DETERMINING, USING AN OPTRONIC SYSTEM, POSITIONS IN A SCENE, AND ASSOCIATED OPTRONIC SYSTEM**

[54] **PROCEDE DE DETERMINATION DE POSITIONS PAR UN SYSTEME OPTRONIQUE DANS UNE SCENE ET SYSTEME OPTRONIQUE ASSOCIE**

[72] SIMON, ALAIN, FR  
[72] BECHE, ARNAUD, FR  
[72] SOULA, JEAN, FR  
[72] GUINET, PIERRE-YVES, FR  
[72] JEROT, PASCAL, FR  
[71] THALES, FR

[85] 2023-06-23  
[86] 2021-12-28 (PCT/EP2021/087745)  
[87] (WO2022/144366)  
[30] FR (FR2014216) 2020-12-29

[21] **3,203,318**  
[13] A1

[51] **Int.Cl. C08L 67/02 (2006.01) C08K 5/20 (2006.01) C08K 5/521 (2006.01) C08K 5/5353 (2006.01)**

[25] EN

[54] **POST-CONSUMER RECYCLED THERMOPLASTICS TREATED FOR MELT-PROCESSING WITH ENHANCED QUALITY**

[54] **THERMOPLASTIQUES RECYCLES APRES CONSOMMATION TRAITES POUR UN TRAITEMENT A L'ETAT FONDU AVEC UNE QUALITE AMELIOREE**

[72] RULE, MARK, US  
[72] ROSENDALE, DAVID, US  
[72] OTTEN, JOSHUA, US  
[71] COLORMATRIX HOLDINGS, INC., US

[71] AVIENT CORPORATION, US

[85] 2023-06-23  
[86] 2021-12-30 (PCT/US2021/065635)  
[87] (WO2022/147213)  
[30] US (63/132,959) 2020-12-31

[21] **3,203,320**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/454 (2006.01) A61P 13/12 (2006.01) C07D 401/02 (2006.01)**

[25] EN

[54] **NITROGEN-CONTAINING BRIDGED HETEROCYCLIC COMPOUND, PREPARATION METHOD THEREFOR, AND MEDICAL USE THEREOF**

[54] **COMPOSE HETEROCYCLIQUE PONTE CONTENANT DE L'AZOTE, SON PROCEDE DE PREPARATION ET SON UTILISATION MEDICALE**

[72] LI, XIN, CN  
[72] ZHANG, ZHIGAO, CN  
[72] DONG, WENMING, CN  
[72] HE, FENG, CN  
[72] TAO, WEIKANG, CN  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN

[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN

[85] 2023-06-23  
[86] 2021-12-30 (PCT/CN2021/142760)  
[87] (WO2022/143845)  
[30] CN (202011609415.0) 2020-12-30  
[30] CN (202110022338.7) 2021-01-08  
[30] CN (202110679456.5) 2021-06-18  
[30] CN (202110982108.5) 2021-08-25

[21] **3,203,321**  
[13] A1

[51] **Int.Cl. H04W 72/00 (2023.01)**

[25] EN

[54] **APPARATUS AND METHODS FOR DOWNLINK CONTROL SIGNALING IN WIRELESS NETWORKS**

[54] **APPAREIL ET PROCEDES POUR UNE SIGNALISATION DE COMMANDE DE LIAISON DESCENDANTE DANS DES RESEAUX SANS FIL**

[72] ZHANG, LIQING, CA  
[72] MA, JIANGLEI, CA  
[72] LYU, YONGXIA, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2023-06-23  
[86] 2020-12-24 (PCT/CN2020/138878)  
[87] (WO2022/133871)



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[21] **3,203,322**  
[13] A1

[51] **Int.Cl. C09D 1/04 (2006.01) C01B 33/143 (2006.01)**

[25] EN

[54] **A COMPOSITION FOR USE AS A COATING**

[54] **COMPOSITION DESTINEE A ETRE UTILISEE EN TANT QUE REVETEMENT**

[72] CORDOVA, ARMANDO, SE

[72] ALIMOHAMMADZADEH, RANA, SE

[71] CORDOVA, ARMANDO, SE

[71] ALIMOHAMMADZADEH, RANA, SE

[85] 2023-06-23

[86] 2021-12-21 (PCT/EP2021/087037)

[87] (WO2022/136398)

[30] SE (2051555-7) 2020-12-23

[30] SE (2151224-9) 2021-10-06

[30] SE (2151231-4) 2021-10-08

[21] **3,203,325**  
[13] A1

[51] **Int.Cl. C07K 14/165 (2006.01) A61K 45/06 (2006.01) C07K 16/10 (2006.01)**

[25] EN

[54] **MONOCLONAL ANTIBODIES AGAINST CORONAVIRUSES AND USES THEREOF**

[54] **ANTICORPS MONOCLONAUX CONTRE LES CORONAVIRUS ET LEURS UTILISATIONS**

[72] KREBS, SHELLY, US

[72] MODJARRAD, KAYVON, US

[72] MICHAEL, NELSON, US

[72] DUSSUPT, VINCENT, US

[72] DONOFRIO, GINA C., US

[72] TOWNSLEY, SAMANTHA, US

[71] THE HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE, INC., US

[71] WALTER REED ARMY INSTITUTE OF RESEARCH, US

[85] 2023-06-23

[86] 2022-01-24 (PCT/US2022/013565)

[87] (WO2022/159839)

[30] US (63/140,763) 2021-01-22

[30] US (63/194,095) 2021-05-27

[21] **3,203,329**  
[13] A1

[51] **Int.Cl. C08G 63/181 (2006.01) C08G 63/84 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING A POLYESTER COMPRISING 2,5-FURANDICARBOXYLATE UNITS**

[54] **PROCEDE DE PRODUCTION D'UN POLYESTER COMPRENANT DES MOTIFS 2,5-FURANDICARBOXYLATE**

[72] TOM JOHN, UITSLAG, NL

[72] RENE, ABERSON, NL

[71] FURANIX TECHNOLOGIES B.V., NL

[85] 2023-06-23

[86] 2021-12-21 (PCT/EP2021/086924)

[87] (WO2022/136332)

[30] EP (20217073.4) 2020-12-23

[21] **3,203,332**  
[13] A1

[51] **Int.Cl. A61K 47/00 (2006.01) A61K 47/68 (2017.01) A61K 47/10 (2017.01) A61K 47/36 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PEGYLATED T CELL ENGAGER WITH DUAL SPECIFICITIES TO CD3 AND CD19**

[54] **ACTIVATEUR DE LYMPHOCYTES T PEGYLE A DOUBLE SPECIFICITE POUR CD3 ET CD19**

[72] WEN, YU, CN

[72] LIU, SHUMIN, CN

[72] TAN, SHUANGYU, CN

[72] WU, DECHUN, CN

[71] SHENZHEN ENDURING BIOTECH, LTD., CN

[85] 2023-06-23

[86] 2022-03-18 (PCT/CN2022/081598)

[87] (WO2022/194264)

[30] CN (PCT/CN2021/081765) 2021-03-19

[21] **3,203,335**  
[13] A1

[51] **Int.Cl. G01S 5/02 (2010.01) G01S 19/21 (2010.01)**

[25] EN

[54] **WIRELESS DEVICE FEARED EVENT OBSERVATIONS AND INDICATORS FOR DETERMINING POSITIONING INTEGRITY**

[54] **OBSERVATIONS ET INDICATEURS D'EVENEMENTS REDOUTES PAR UN DISPOSITIF SANS FIL POUR LA DETERMINATION D'UNE INTEGRITE DE POSITIONNEMENT**

[72] GUNNARSSON, FREDRIK, SE

[72] SHREEVASTAV, RITESH, SE

[72] RAMACHANDRA, PRADEEPA, SE

[72] MODARRES RAZAVI, SARA, SE

[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE

[85] 2023-06-23

[86] 2022-01-14 (PCT/SE2022/050037)

[87] (WO2022/154736)

[30] US (63/137,601) 2021-01-14

[21] **3,203,336**  
[13] A1

[51] **Int.Cl. C08L 91/06 (2006.01) C08J 3/09 (2006.01)**

[25] EN

[54] **OIL IN WATER WAX EMULSION COMPOSITION**

[54] **COMPOSITION D'EMULSION HUILE DANS L'EAU A BASE DE CIRE**

[72] HAYES, JOHN, US

[71] CRYSTAL, INC. - PMC, US

[85] 2023-06-23

[86] 2022-01-28 (PCT/US2022/014390)

[87] (WO2022/165231)

[30] US (63/142,564) 2021-01-28

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[21] **3,203,339**  
[13] A1

[51] **Int.Cl. G06T 7/521 (2017.01) G06T 7/593 (2017.01) G06T 7/73 (2017.01) G01S 17/74 (2006.01) G01S 11/12 (2006.01)**

[25] EN

[54] **SYSTEM FOR MONITORING THE POSITION OF A VEHICLE ON A RACETRACK**

[54] **SYSTEME DE SURVEILLANCE DE LA POSITION D'UN VEHICULE SUR UNE PISTE DE COURSE**

[72] WARD, JOSHUA, GB

[72] KUNDRIK, MATOUS, GB

[72] LAWRENCE, PHILIP, GB

[71] FOGLEDN LTD., GB

[85] 2023-06-23

[86] 2021-12-23 (PCT/GB2021/053419)

[87] (WO2022/136876)

[30] GB (2020545.6) 2020-12-23

[21] **3,203,340**  
[13] A1

[51] **Int.Cl. A61B 5/103 (2006.01)**

[25] EN

[54] **GAIT AND POSTURE ANALYSIS**

[54] **ANALYSE DE DEMARCHE ET DE POSTURE**

[72] KUMAR, VIVEK, US

[72] SHEPPARD, KEITH, US

[72] SABNIS, GAUTAM, US

[71] THE JACKSON LABORATORY, US

[85] 2023-06-23

[86] 2021-12-29 (PCT/US2021/065425)

[87] (WO2022/147063)

[30] US (63/131,498) 2020-12-29

[30] US (63/144,052) 2021-02-01

[21] **3,203,341**  
[13] A1

[51] **Int.Cl. B67D 7/04 (2010.01)**

[25] EN

[54] **ROBOTIC SYSTEM FOR AUTOMATIC REFUELLING OF VEHICLES**

[54] **SYSTEME ROBOTISE POUR LE REMPLISSAGE AUTOMATIQUE DU RESERVOIR DE CARBURANT DE VEHICULES**

[72] VOGELAAR, JOHANNES SIJBRAND, DE

[72] MEIJERINK, ERWIN, NL

[72] VON BUCHWALD, ESSEN, DK

[72] OLSEN, JONAS THOR, SE

[71] AUTOFUEL APS, DK

[85] 2023-06-23

[86] 2021-12-23 (PCT/EP2021/087498)

[87] (WO2022/144300)

[30] EP (20217945.3) 2020-12-30

[30] EP (21191567.3) 2021-08-16

[21] **3,203,344**  
[13] A1

[51] **Int.Cl. C08G 18/48 (2006.01) C08G 18/28 (2006.01) C08G 18/76 (2006.01) C08L 75/04 (2006.01) C08L 75/08 (2006.01)**

[25] EN

[54] **FLAME LAMINATION ADDITIVE FOR POLYURETHANE FOAM**

[54] **ADDITIF DE STRATIFICATION A LA FLAMME POUR MOUSSE DE POLYURETHANE**

[72] STOWELL, JEFFREY, US

[72] CHEN, ZHIHAO, US

[72] PATEL, MUNJAL, US

[71] ICL-IP AMERICA INC., US

[85] 2023-06-23

[86] 2022-01-07 (PCT/US2022/011540)

[87] (WO2022/173532)

[30] US (63/147,895) 2021-02-10

[21] **3,203,346**  
[13] A1

[51] **Int.Cl. F04B 43/00 (2006.01) F04B 43/12 (2006.01)**

[25] EN

[54] **PERISTALTIC PUMPS**

[54] **POMPES PERISTALTIQUES**

[72] HODGES, KEVIN, GB

[72] SPATHAKY, DREW, GB

[71] HODGES & DRAKE DESIGN LTD, GB

[85] 2023-06-23

[86] 2021-12-21 (PCT/EP2021/087135)

[87] (WO2022/136462)

[30] GB (2020577.9) 2020-12-24

[21] **3,203,348**  
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 15/113 (2010.01) C12N 5/10 (2006.01) C12N 7/01 (2006.01) C12N 15/10 (2006.01) C12P 21/00 (2006.01)**

[25] EN

[54] **TIGHTLY-REGULATED INDUCIBLE EXPRESSION SYSTEM FOR PRODUCTION OF BIOLOGICS USING STABLE CELL LINES**

[54] **SYSTEME D'EXPRESSION INDUCTIBLE ETROITEMENT REGULE POUR LA PRODUCTION DE PRODUITS BIOLOGIQUES A L'AIDE DE LIGNEES CELLULAIRES STABLES**

[72] GILBERT, RENALD, CA

[72] BROUSSAU, SOPHIE, CA

[72] GUILBAULT, CLAIRE, CA

[72] LECLERC, MELANIE, CA

[72] LYTVYN, VIKTORIA, CA

[72] SIMONEAU, MELANIE, CA

[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[85] 2023-06-23

[86] 2022-01-06 (PCT/CA2022/050010)

[87] (WO2022/147617)

[30] US (63/134,816) 2021-01-07

[21] **3,203,350**  
[13] A1

[51] **Int.Cl. A61B 5/02 (2006.01) A61B 10/00 (2006.01)**

[25] EN

[54] **ARRHYTHMIC STATE DETECTION ASSISTING DEVICE AND PROGRAM**

[54] **DISPOSITIF ET PROGRAMME D'AIDE A LA DETECTION D'ETAT ARYTHMIQUE**

[72] OGINO, MAKOTO, JP

[72] KAMADA, HIROYUKI, JP

[71] ASTELLAS PHARMA INC., JP

[85] 2023-06-23

[86] 2021-12-21 (PCT/JP2021/047384)

[87] (WO2022/138661)

[30] JP (2020-216927) 2020-12-25

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[21] **3,203,351**  
[13] A1

[51] **Int.Cl. H04L 9/00 (2022.01) H04L 9/08 (2006.01) H04L 9/14 (2006.01) H04L 9/32 (2006.01)**

[25] EN

[54] **HOMOMORPHIC ONE-TIME PAD ENCRYPTION**

[54] **CHIFFREMENT HOMOMORPHE AVEC MASQUE A USAGE UNIQUE**

[72] GRANT, ROBERT EDWARD, US

[72] ROMINE, KRISTINE, US

[71] THEON TECHNOLOGY LLC, US

[85] 2023-06-23

[86] 2021-12-21 (PCT/US2021/064756)

[87] (WO2022/140488)

[30] US (17/132,128) 2020-12-23

[21] **3,203,352**  
[13] A1

[51] **Int.Cl. F24S 25/00 (2018.01) H02S 20/00 (2014.01)**

[25] EN

[54] **PHOTOVOLTAIC MODULE DEFLECTION LIMITER**

[54] **LIMITEUR DE DEVIATION DE MODULE PHOTOVOLTAIQUE**

[72] DE FRESART, BENJAMIN C., US

[72] SCHUKNECHT, NATHAN, US

[72] SHARP, JON, US

[71] ARRAY TECHNOLOGIES, INC., US

[85] 2023-06-23

[86] 2021-12-23 (PCT/US2021/065106)

[87] (WO2022/140682)

[30] US (63/130,177) 2020-12-23

[30] US (17/561,093) 2021-12-23

[21] **3,203,353**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) B01L 7/00 (2006.01) G01N 35/00 (2006.01) G01N 35/08 (2006.01)**

[25] EN

[54] **CHEMICAL PROCESSING SYSTEM AND INSTRUMENT**

[54] **SYSTEME ET INSTRUMENT DE TRAITEMENT CHIMIQUE**

[72] MILLER, JEFFREY EDWARD, US

[72] MOTTRAM, MARTIN ANTHONY, GB

[72] KISS, BALAZS, GB

[72] MALLOY, ANDREW JAMES, GB

[72] CRISP, PAUL MALCOLM, GB

[72] CROSSLEY, PETER LEE, GB

[72] LAING, LAUREN VICTORIA ELIZABETH, GB

[72] MACLACHLAN, ALEXANDER ROBERT, GB

[71] INVIVOSCRIBE INC., US

[85] 2023-06-23

[86] 2021-12-23 (PCT/US2021/065044)

[87] (WO2022/140651)

[30] US (63/292,314) 2021-12-21

[30] US (63/130,450) 2020-12-24

[30] US (63/241,167) 2021-09-07

[21] **3,203,354**  
[13] A1

[51] **Int.Cl. G01N 29/024 (2006.01)**

[25] EN

[54] **MEASURING CONCENTRATIONS OF MIXED GASES AT AN ENDPOINT**

[54] **MESURE DE CONCENTRATIONS DE GAZ MELANGES AU NIVEAU D'UN POINT D'EXTREMITE**

[72] XU, CHANG-QING, CA

[72] FLANNIGAN, LIAM, CA

[72] KNELLER, JOSHUA, CA

[71] ROMET LIMITED, CA

[85] 2023-06-23

[86] 2021-12-22 (PCT/CA2021/051880)

[87] (WO2022/133610)

[30] US (63/129,863) 2020-12-23

[21] **3,203,356**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/395 (2006.01) A61P 31/20 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING CANCERS WITH ACTIVATING ANTIGEN CARRIERS**

[54] **METHODES DE TRAITEMENT DE CANCERS PAR ACTIVATION DE PORTEURS D'ANTIGENE**

[72] ROSEN, OLIVER, US

[71] SQZ BIOTECHNOLOGIES COMPANY, US

[85] 2023-06-23

[86] 2021-12-28 (PCT/US2021/073143)

[87] (WO2022/147443)

[30] US (63/131,506) 2020-12-29

[21] **3,203,358**  
[13] A1

[51] **Int.Cl. E21B 10/43 (2006.01) E21B 10/54 (2006.01) E21B 10/56 (2006.01)**

[25] EN

[54] **DRILL BITS HAVING REINFORCED FACE**

[54] **TREPANS A FACE RENFORCEE**

[72] CORONA, ROBERT ANDREW, US

[72] WRIGHT, KIANA, US

[71] BLY IP INC., US

[85] 2023-06-23

[86] 2021-12-21 (PCT/US2021/064596)

[87] (WO2022/146782)

[30] US (63/131,602) 2020-12-29

[21] **3,203,361**  
[13] A1

[51] **Int.Cl. A61K 31/10 (2006.01) A61K 31/015 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING CANNABIS AND MUSHROOM EXTRACTS, AND USES THEREOF**

[54] **COMPOSITIONS COMPRENANT DES EXTRAITS DE CANNABIS ET DE CHAMPIGNONS, ET LEURS UTILISATIONS**

[72] BERLING, PARKER, US

[72] VERZURA, TONY M., US

[72] HALL, KEVIN, US

[71] COOKIES CREATIVE CONSULTING & PROMOTIONS, INC., US

[85] 2023-06-23

[86] 2021-12-30 (PCT/US2021/065708)

[87] (WO2022/147270)

[30] US (63/132,878) 2020-12-31

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[21] **3,203,364**  
[13] A1

[51] **Int.Cl. D21C 3/20 (2006.01) D21C 9/08 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING PRODUCTS BASED ON NON-WOODY BIOMASS AS RAW MATERIAL**  
[54] **PROCEDE DE PRODUCTION DE PRODUITS A BASE DE BIOMASSE NON LIGNEUSE COMME MATIERE PREMIERE**  
[72] FRIEDL, ANTON, AT  
[72] LEHR, MAXIMILIAN, AT  
[72] MILTNER, MARTIN, AT  
[72] WUKOVITS, WALTER, AT  
[71] TECHNISCHE UNIVERSITAT WIEN, AT  
[85] 2023-06-23  
[86] 2021-12-29 (PCT/EP2021/087769)  
[87] (WO2022/144379)  
[30] EP (20217522.0) 2020-12-29

[21] **3,203,365**  
[13] A1

[51] **Int.Cl. E21B 10/32 (2006.01) E21B 21/08 (2006.01) E21B 21/10 (2006.01)**  
[25] EN  
[54] **DOWNHOLE TOOL MOVEMENT CONTROL SYSTEM AND METHOD OF USE**  
[54] **SYSTEME DE COMMANDE DE MOUVEMENT D'OUTIL DE FOND ET PROCEDE D'UTILISATION**  
[72] GREEN, DAVID A., US  
[71] WELL MASTER CORPORATION, US  
[85] 2023-06-23  
[86] 2022-01-15 (PCT/US2022/012643)  
[87] (WO2022/155553)  
[30] US (63/138,496) 2021-01-17

[21] **3,203,367**  
[13] A1

[51] **Int.Cl. C07K 14/605 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**  
[25] EN  
[54] **HUMAN GLP-1 POLYPEPTIDE VARIANT AND USE THEREOF**  
[54] **VARIANT DE POLYPEPTIDE GLP-1 HUMAIN ET SON UTILISATION**  
[72] XU, TING, CN  
[72] JIN, YUHAO, CN  
[72] WANG, XIAOXIAO, CN  
[72] WANG, PILIN, CN  
[72] LI, QIAN, CN  
[71] SUZHOU ALPHAMAB CO., LTD, CN  
[85] 2023-06-23  
[86] 2021-12-27 (PCT/CN2021/141608)  
[87] (WO2022/143516)  
[30] CN (202011605173.8) 2020-12-29

[21] **3,203,369**  
[13] A1

[51] **Int.Cl. F04B 7/00 (2006.01) F04B 43/12 (2006.01)**  
[25] EN  
[54] **PERISTALTIC PUMP WITH CONSTANT BIASING FORCE**  
[54] **POMPE PERISTALTIQUE A FORCE DE SOLLICITATION CONSTANTE**  
[72] ZHANG, LUN, US  
[72] CAI, FRANK, US  
[72] CARROLL, DEREK ALAN, US  
[72] SHEVGOOR, SIDDARTH, US  
[71] CAREFUSION 303, INC., US  
[85] 2023-06-23  
[86] 2022-01-26 (PCT/US2022/013919)  
[87] (WO2022/164914)  
[30] US (63/142,916) 2021-01-28

[21] **3,203,371**  
[13] A1

[51] **Int.Cl. H01M 12/06 (2006.01) H01M 50/244 (2021.01) H01M 50/474 (2021.01) H01M 12/02 (2006.01)**  
[25] EN  
[54] **METAL AIR GALVANIC ENGINE**  
[54] **MOTEUR GALVANIQUE A AIR METALLIQUE**  
[72] SHEERIN, GEOFFREY, CA  
[71] ALUMAPOWER CORPORATION, CA  
[85] 2023-06-23  
[86] 2021-12-23 (PCT/IB2021/062277)  
[87] (WO2022/137203)  
[30] US (63/130,473) 2020-12-24

[21] **3,203,372**  
[13] A1

[51] **Int.Cl. B01L 3/02 (2006.01)**  
[25] EN  
[54] **CHEMICAL PROCESSING SYSTEM, INSTRUMENT AND SAMPLE CARTRIDGE**  
[54] **SYSTEME DE TRAITEMENT CHIMIQUE, INSTRUMENT ET CARTOUCHE D'ECHANTILLON**  
[72] MILLER, JEFFREY EDWARD, US  
[72] MOTTRAM, MARTIN ANTHONY, GB  
[72] KISS, BALAZS, GB  
[72] MALLOY, ANDREW JAMES, GB  
[72] CRISP, PAUL MALCOLM, GB  
[72] CROSSLEY, PETER LEE, GB  
[72] LAING, LAUREN VICTORIA ELIZABETH, GB  
[72] MACLACHLAN, ALEXANDER ROBERT, GB  
[71] INVIVOSCRIBE, INC., US  
[85] 2023-06-23  
[86] 2021-12-23 (PCT/US2021/065045)  
[87] (WO2022/140652)  
[30] US (63/130,450) 2020-12-24  
[30] US (63/241,167) 2021-09-07  
[30] US (29/820,394) 2021-12-21  
[30] US (63/292,314) 2021-12-21

[21] **3,203,373**  
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61P 27/16 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR TREATING CLRN1-ASSOCIATED HEARING LOSS AND/OR VISION LOSS**  
[54] **COMPOSITIONS ET METHODES POUR TRAITER UNE PERTE AUDITIVE ET/OU UNE PERTE DE LA VISION ASSOCIEES A CLRN1**  
[72] SIMONS, EMMANUEL JOHN, US  
[72] NG, ROBERT, US  
[71] AKOUOS, INC., US  
[85] 2023-06-23  
[86] 2021-12-22 (PCT/US2021/064924)  
[87] (WO2022/146839)  
[30] US (63/131,413) 2020-12-29

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[21] **3,203,376**  
[13] A1

[51] **Int.Cl. A61B 5/15 (2006.01) A61M 25/00 (2006.01) A61M 39/10 (2006.01)**  
[25] EN  
[54] **PROBE ADVANCEMENT DEVICE AND RELATED SYSTEMS AND METHODS**  
[54] **DISPOSITIF D'AVANCEMENT DE SONDÉ ET SYSTEMES ET PROCÉDES ASSOCIÉS**  
[72] BLANCHARD, CURTIS H., US  
[72] BOUD, ADAM J., US  
[72] HARDING, WESTON F., US  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2023-06-23  
[86] 2022-01-07 (PCT/US2022/011530)  
[87] (WO2022/150537)  
[30] US (63/135,377) 2021-01-08

[21] **3,203,378**  
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01) A61M 25/08 (2006.01) A61M 25/09 (2006.01)**  
[25] EN  
[54] **PROBE DELIVERY DEVICE TO FACILITATE ADVANCEMENT OF A PROBE WITHIN AN INTRAVENOUS CATHETER**  
[54] **DISPOSITIF DE POSE DE SONDÉ POUR FACILITER L'AVANCEE D'UNE SONDÉ A L'INTERIEUR D'UN CATHETER INTRAVEINEUX**  
[72] HARDING, WESTON F., US  
[72] BURKHOLZ, JONATHAN KARL, US  
[72] BLANCHARD, CURTIS H., US  
[72] SCHERICH, MEGAN, US  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2023-06-23  
[86] 2022-01-07 (PCT/US2022/011526)  
[87] (WO2022/150533)  
[30] US (63/135,393) 2021-01-08

[21] **3,203,383**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61M 5/20 (2006.01) A61M 39/00 (2006.01) A61B 34/30 (2016.01)**  
[25] EN  
[54] **APPLICATOR FOR ROBOT-ASSISTED SURGERY**  
[54] **APPLICATEUR POUR CHIRURGIE ASSISTEE PAR ROBOT**  
[72] HAMMERSHOJ, PETER LUND, DK  
[72] IGWEBUIKE, HENNING UZOMA, DK  
[72] DEMANT, LISBETH NOHR, DK  
[72] BRUEL, CHRISTIAN, DK  
[72] ENGMARK, MIKAEL, DK  
[72] BHATIA, VIKRAM KJOLLER, DK  
[72] AXELSSON, LARS TAMSTRUP, DK  
[71] FERROSAN MEDICAL DEVICES A/S, DK  
[85] 2023-06-23  
[86] 2022-01-14 (PCT/EP2022/050707)  
[87] (WO2022/152824)  
[30] EP (21151583.8) 2021-01-14  
[30] EP (21186164.6) 2021-07-16  
[30] EP (21186177.8) 2021-07-16

[21] **3,203,387**  
[13] A1

[51] **Int.Cl. C07K 1/30 (2006.01)**  
[25] EN  
[54] **SEEDED PRECIPITATION OF POLYPEPTIDES**  
[54] **PRECIPITATION ENSEMENCEE DE POLYPEPTIDES**  
[72] KULAK, NILS A., DE  
[72] JOHANSSON, SEBASTIAN H., DE  
[72] HARTINGER, KATRIN, DE  
[71] PREOMICS GMBH, DE  
[85] 2023-06-23  
[86] 2022-02-22 (PCT/EP2022/054454)  
[87] (WO2022/180062)  
[30] EP (21158984.1) 2021-02-24

[21] **3,203,388**  
[13] A1

[51] **Int.Cl. H04L 27/26 (2006.01)**  
[25] EN  
[54] **INFORMATION TRANSMISSION METHOD AND APPARATUS**  
[54] **PROCEDE ET APPAREIL DE TRANSMISSION D'INFORMATIONS**  
[72] LIU, CHENCHEN, CN  
[72] GONG, BO, CN  
[72] GAN, MING, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2023-06-23  
[86] 2021-12-02 (PCT/CN2021/135140)  
[87] (WO2022/135107)  
[30] CN (202011569822.3) 2020-12-26

[21] **3,203,390**  
[13] A1

[51] **Int.Cl. H01J 37/12 (2006.01)**  
[25] EN  
[54] **ELECTRON LENS**  
[54] **LENTILLE ELECTRONIQUE**  
[72] STEENBRINK, STIJN WILEM HERMAN KAREL, NL  
[72] KONING, JOHAN JOOST, NL  
[72] VAN SOEST, JURGEN, NL  
[72] WIELAND, MARCO JAN-JACO, NL  
[71] ASML NETHERLANDS B.V., NL  
[85] 2023-06-23  
[86] 2021-12-08 (PCT/EP2021/084737)  
[87] (WO2022/135926)  
[30] EP (20216933.0) 2020-12-23  
[30] EP (21191728.1) 2021-08-17

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[21] **3,203,391**  
[13] A1

[51] **Int.Cl. A61M 37/00 (2006.01)**  
[25] EN  
[54] **METHODS AND DEVICES FOR INDUCEMENT OF SWEAT FOR MEDICAL DIAGNOSTICS**  
[54] **PROCEDES ET DISPOSITIFS PERMETTANT L'INDUCTION DE LA TRANSPIRATION POUR DES DIAGNOSTICS MEDICAUX**  
[72] LI, SONG, US  
[72] GUGLANI, LOKESH, US  
[72] PRAUSNITZ, MARK R., US  
[71] GEORGIA TECH RESEARCH CORPORATION, US  
[71] EMORY UNIVERSITY, US  
[71] CHILDREN'S HEALTHCARE OF ATLANTA, INC., US  
[85] 2023-06-23  
[86] 2021-12-30 (PCT/US2021/065760)  
[87] (WO2022/147307)  
[30] US (63/132,086) 2020-12-30

[21] **3,203,392**  
[13] A1

[51] **Int.Cl. A61K 35/39 (2015.01) C12N 5/071 (2010.01) C07K 14/47 (2006.01)**  
[25] EN  
[54] **UNIVERSAL DONOR CELLS**  
[54] **CELLULES DONNEUSES UNIVERSELLES**  
[72] REZANIA, ALIREZA, US  
[72] SLUCH, VALENTIN, US  
[71] CRISPR THERAPEUTICS AG, CH  
[85] 2023-06-23  
[86] 2021-12-31 (PCT/IB2021/062525)  
[87] (WO2022/144855)  
[30] US (63/132,890) 2020-12-31  
[30] US (63/234,997) 2021-08-19  
[30] US (63/288,356) 2021-12-10

[21] **3,203,393**  
[13] A1

[51] **Int.Cl. B64C 37/02 (2006.01) B64C 39/02 (2023.01)**  
[25] EN  
[54] **SYSTEM AND METHODS FOR MOBILE TOWING AND LIFTING PLATFORMS**  
[54] **SYSTEME ET PROCEDES POUR PLATES-FORMES MOBILES DE REMORQUAGE ET DE LEVAGE**  
[72] OQAB, HAROON B., CA  
[72] DIETRICH, GEORGE B., CA  
[71] OQAB DIETRICH INDUCTION INC., CA  
[85] 2023-06-23  
[86] 2021-12-23 (PCT/CA2021/051885)  
[87] (WO2022/133614)  
[30] US (63/129,775) 2020-12-23

[21] **3,203,394**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01)**  
[25] EN  
[54] **MICRO-DROPLET GENERATION METHOD AND GENERATION SYSTEM**  
[54] **PROCEDE DE GENERATION DE MICRO-GOUTTELETTES ET SYSTEME DE GENERATION DE MICRO-GOUTTELETTES**  
[72] MA, HANBIN, CN  
[72] SHI, SUBAO, CN  
[72] JIN, KAI, CN  
[72] XU, LONGQIAN, CN  
[71] FOSHAN ACXEL BOXIN TECH CO., LTD, CN  
[85] 2023-06-23  
[86] 2021-11-23 (PCT/CN2021/132216)  
[87] (WO2022/134986)  
[30] CN (202011549220.1) 2020-12-24  
[30] CN (202011552355.3) 2020-12-24  
[30] CN (202011552418.5) 2020-12-24  
[30] CN (202011552491.2) 2020-12-24  
[30] CN (202111268389.4) 2021-10-29  
[30] CN (202111302971.8) 2021-11-05

[21] **3,203,395**  
[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **OLIGONUCLEOTIDES REDUCING THE AMOUNT OF CD73 MRNA AND CD73 PROTEIN EXPRESSION**  
[54] **OLIGONUCLEOTIDES REDUISANT LA QUANTITE D'ARNM DE CD73 ET L'EXPRESSION DE PROTEINES CD73**  
[72] JASCHINSKI, FRANK, DE  
[72] MICHEL, SVEN, DE  
[72] KLAR, RICHARD, DE  
[72] FESTAG, JULIA, DE  
[71] SECARNA PHARMACEUTICALS GMBH & CO. KG, DE  
[85] 2023-06-23  
[86] 2021-12-31 (PCT/EP2021/087892)  
[87] (WO2022/144439)  
[30] EP (20217955.2) 2020-12-31

[21] **3,203,396**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**  
[25] EN  
[54] **SATELLITE TERMINAL POWER BACK-OFF**  
[54] **REDUCTION DE PUISSANCE D'UN TERMINAL DE SATELLITE**  
[72] REGUNATHAN, MURALI, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2023-06-23  
[86] 2021-12-03 (PCT/US2021/061690)  
[87] (WO2022/140037)  
[30] US (17/132,115) 2020-12-23

[21] **3,203,407**  
[13] A1

[51] **Int.Cl. G06T 7/20 (2017.01)**  
[25] EN  
[54] **GLOBAL MOVEMENT IMAGE STABILIZATION SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES DE STABILISATION D'IMAGES A MOUVEMENT GLOBAL**  
[72] PETKOV, GEORGE H., NL  
[72] KALITZIN, STILIJAN, NL  
[72] FORNELL, PETER, US  
[71] HB INNOVATIONS INC., US  
[85] 2023-06-26  
[86] 2021-09-29 (PCT/US2021/052633)  
[87] (WO2022/146515)  
[30] US (17/136,228) 2020-12-29

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[21] **3,203,408**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) C12M 1/42 (2006.01) C12M 3/06 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **MICROFLUIDIC CHIP HAVING INCREASED THROUGHPUT FOR USE IN A SYSTEM FOR DELIVERY OF A PAYLOAD INTO A CELL**

[54] **PUCE MICROFLUIDIQUE AYANT UN DEBIT ACCRU POUR UNE UTILISATION DANS UN SYSTEME PERMETTANT L'ADMINISTRATION D'UNE CHARGE UTILE DANS UNE CELLULE**

[72] DADGAR, MAISAM, US

[71] SQZ BIOTECHNOLOGIES COMPANY, US

[85] 2023-06-26

[86] 2021-12-27 (PCT/US2021/073121)

[87] (WO2022/147428)

[30] US (63/131,423) 2020-12-29

[21] **3,203,409**  
[13] A1

[51] **Int.Cl. A63H 33/00 (2006.01) G09B 1/18 (2006.01)**

[25] EN

[54] **MULTI-LAYER TOY**

[54] **JOUET MULTICOUCHE**

[72] OMIDI, NADER, US

[71] OMIDI, NADER, US

[85] 2023-06-26

[86] 2020-12-28 (PCT/US2020/067110)

[87] (WO2022/146409)

[21] **3,203,410**  
[13] A1

[51] **Int.Cl. B23B 51/06 (2006.01)**

[25] EN

[54] **DRILL**

[54] **FORET**

[72] YAMAMOTO, TAKAHIRO, JP

[71] OSG CORPORATION, JP

[85] 2023-06-26

[86] 2021-05-10 (PCT/JP2021/017616)

[87] (WO2022/239046)

[21] **3,203,411**  
[13] A1

[51] **Int.Cl. D21C 3/20 (2006.01) D21C 9/08 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING PRODUCTS BASED ON WOOD AS A RAW MATERIAL**

[54] **PROCEDE DE PRODUCTION DE PRODUITS A BASE DE BOIS EN TANT QUE MATIERE PREMIERE**

[72] FRIEDL, ANTON, AT

[72] LEHR, MAXIMILIAN, AT

[72] MILTNER, MARTIN, AT

[72] WUKOVITS, WALTER, AT

[71] MM BOARD & PAPER GMBH, AT

[85] 2023-06-26

[86] 2021-12-29 (PCT/EP2021/087767)

[87] (WO2022/144377)

[30] EP (20217520.4) 2020-12-29

[21] **3,203,412**  
[13] A1

[51] **Int.Cl. F04D 7/04 (2006.01)**

[25] EN

[54] **MAIN LINER FOR A PUMP**

[54] **CHEMISE PRINCIPALE POUR UNE POMPE**

[72] KOSMICKI, RANDY JAMES, US

[71] WEIR SLURRY GROUP, INC., US

[85] 2023-06-26

[86] 2021-01-16 (PCT/AU2021/050025)

[87] (WO2022/150871)

[21] **3,203,413**  
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) H05B 47/105 (2020.01) G05D 23/19 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, COMPUTER-READABLE MEDIA, AND DEVICES FOR AUTHENTICATING USERS**

[54] **SYSTEMES, PROCEDES, SUPPORTS LISIBLES PAR ORDINATEUR ET DISPOSITIFS D'AUTHENTIFICATION D'UTILISATEURS**

[72] BAILEY, CHRISTOPHER, CA

[72] HEARTY, JOHN, CA

[72] BROUGH, RYAN, CA

[72] CAPPS II, ROBERT W., US

[72] SENCI, DAVID J., US

[71] MASTERCARD TECHNOLOGIES CANADA ULC, CA

[85] 2023-06-26

[86] 2021-12-29 (PCT/CA2021/051896)

[87] (WO2022/140853)

[30] US (63/132,134) 2020-12-30

[21] **3,203,414**  
[13] A1

[25] EN

[54] **METHOD AND APPARATUS FOR AUTOMATING MODELS FOR INDIVIDUALIZED ADMINISTRATION OF MEDICAMENTS**

[54] **PROCEDE ET APPAREIL PERMETTANT D'AUTOMATISER DES MODELES POUR UNE ADMINISTRATION DE INDIVIDUALISEE DE MEDICAMENTS**

[72] RACKAUCKAS, CHRISTOPHER VINCENT, US

[72] IVATURI, VIJAY, US

[71] UNIVERSITY OF MARYLAND, BALTIMORE, US

[85] 2023-06-26

[86] 2022-01-13 (PCT/US2022/012256)

[87] (WO2022/155292)

[30] US (63/136,719) 2021-01-13

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[21] **3,203,415**  
[13] A1

[51] **Int.Cl. H05B 6/06 (2006.01)**  
[25] EN  
[54] **ELECTROMAGNETIC HEATING DEVICE, NOISE SUPPRESSION METHOD, HEATING CONTROL SYSTEM AND STORAGE MEDIUM**

[54] **DISPOSITIF DE CHAUFFAGE ELECTROMAGNETIQUE, PROCEDE DE SUPPRESSION DE BRUIT, SYSTEME DE COMMANDE DE CHAUFFAGE ET SUPPORT DE STOCKAGE**

[72] LEI, JUN, CN  
[72] ZENG, LUTIAN, CN  
[72] ZHU, CHENGBIN, CN  
[72] WANG, YUNFENG, CN  
[72] JIANG, DEYONG, CN  
[72] LIU, WENHUA, CN  
[72] ZHENG, LIANG, CN  
[71] FOSHAN SHUNDE MIDEA ELECTRICAL HEATING APPLIANCES MANUFACTURING CO., LTD., CN  
[85] 2023-06-26  
[86] 2021-12-24 (PCT/CN2021/141332)  
[87] (WO2022/143476)  
[30] CN (202011587915.9) 2020-12-29

[21] **3,203,416**  
[13] A1

[51] **Int.Cl. A01C 7/04 (2006.01) A01C 7/12 (2006.01) A01C 7/16 (2006.01)**  
[25] EN  
[54] **SEED METER WITH VACUUM PRODUCING DEVICE AND CONTROLLED OUTLET PRESSURE**

[54] **DOSEUR DE GRAINES A DISPOSITIF DE PRODUCTION DE VIDE ET PRESSION DE SORTIE REGULEE**

[72] BASSETT, JOSEPH D., US  
[71] DEERE & COMPANY, US  
[85] 2023-06-26  
[86] 2021-12-28 (PCT/US2021/065403)  
[87] (WO2022/147050)  
[30] US (63/132,279) 2020-12-30

[21] **3,203,417**  
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) C12N 15/85 (2006.01)**  
[25] EN  
[54] **TRANSGENIC CORY**

[54] **CORY TRANSGENIQUE**

[72] BLAKE, ALAN, US  
[72] CROCKETT, RICHARD, US  
[72] NASEVICIUS, AIDAS, US  
[71] GLOFISH, LLC, US  
[85] 2023-06-26  
[86] 2022-01-12 (PCT/US2022/012158)  
[87] (WO2022/155230)  
[30] US (63/136,454) 2021-01-12  
[30] US (63/136,464) 2021-01-12  
[30] US (63/136,460) 2021-01-12

[21] **3,203,419**  
[13] A1

[51] **Int.Cl. G01N 1/38 (2006.01) G01N 33/24 (2006.01)**  
[25] EN  
[54] **PORTABLE MODULAR GASTROINTESTINAL SIMULATOR SYSTEM THAT QUANTIFIES BIOACCESSIBILITY OF METALS IN A SAMPLE REMOTELY AND IN REAL TIME, AND METHOD**

[54] **SYSTEME MODULAIRE SIMULATEUR GASTRO-INTestinal, PORTATIF, QUI QUANTIFIE A DISTANCE, EN TEMPS REEL, LA BIOACCESSIBILITE DE METAUX DANS UN ECHANTILLON, ET PROCEDE**

[72] PARODI DAVILA, MARIA CAROLINA, CL  
[72] MIRANDA SANDOVAL, MICHAEL, CL  
[72] ALENCAR DA SILVA, KEYLA, CL  
[71] UNIVERSIDAD TECNOLOGICA METROPOLITANA, CL  
[85] 2023-06-26  
[86] 2020-12-30 (PCT/CL2020/050198)  
[87] (WO2022/140868)

[21] **3,203,422**  
[13] A1

[51] **Int.Cl. G01C 21/16 (2006.01) G01S 15/86 (2020.01) G01S 5/18 (2006.01)**  
[25] EN  
[54] **STEP-BASED POSITIONING**

[54] **POSITIONNEMENT A BASE DE PAS**

[72] THIO, VINCENT MARTELLO KWIE HOE, NO  
[72] BOOIJ, WILFRED EDWIN, NO  
[71] SONITOR TECHNOLOGIES AS, NO  
[85] 2023-06-26  
[86] 2022-01-20 (PCT/GB2022/050155)  
[87] (WO2022/157497)  
[30] GB (2100781.0) 2021-01-20

[21] **3,203,423**  
[13] A1

[51] **Int.Cl. A47B 13/16 (2006.01) A47G 19/08 (2006.01) A47G 19/10 (2006.01) B63B 29/04 (2006.01) B63B 29/08 (2006.01)**  
[25] EN  
[54] **PLATFORM HAVING ADJUSTABLY POSITIONABLE IMMOBILIZERS**

[54] **PLATEFORME COMPORANT DES DISPOSITIFS D'IMMOBILISATION A POSITIONNEMENT REGLABLE**

[72] HERMAN, BENJAMIN JAY, US  
[71] HERMAN, BENJAMIN JAY, US  
[85] 2023-06-26  
[86] 2021-12-22 (PCT/US2021/065022)  
[87] (WO2022/140644)  
[30] US (63/130,515) 2020-12-24  
[30] US (17/476,472) 2021-09-15



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[21] **3,203,424**  
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) C12N 15/113 (2010.01) C12N 15/117 (2010.01) A61K 9/51 (2006.01) A61K 31/7115 (2006.01) A61K 31/712 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **TEMPLATE DIRECTED IMMUNOMODULATION FOR CANCER THERAPY**

[54] **IMMUNOMODULATION DIRIGEE PAR UNE MATRICE POUR THERAPIE ANTICANCEREUSE**

[72] DUDLEY, ROBERT MICHAEL, US

[72] LIU, QIYONG PETER, US

[72] GHOSH, SUBRATA KUMAR, US

[71] TRANSCODE THERAPEUTICS, INC., US

[85] 2023-06-26

[86] 2021-12-29 (PCT/US2021/065580)

[87] (WO2022/147177)

[30] US (63/132,315) 2020-12-30

[21] **3,203,427**  
[13] A1

[51] **Int.Cl. G01C 11/04 (2006.01) G06V 20/10 (2022.01) G01S 13/90 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PRODUCING A DIGITAL TERRAIN MODEL**

[54] **PROCEDE ET SYSTEME DE PRODUCTION D'UN MODELE DE TERRAIN NUMERIQUE**

[72] ST-ONGE, BENOIT, CA

[72] GREEN, PHILIP E. J., CA

[71] FIRST RESOURCE MANAGEMENT GROUP INC., CA

[85] 2023-06-26

[86] 2021-12-30 (PCT/CA2021/000108)

[87] (WO2022/140836)

[30] CA (3104464) 2020-12-30

[21] **3,203,429**  
[13] A1

[51] **Int.Cl. B29C 59/00 (2006.01) B29C 70/68 (2006.01) B32B 38/10 (2006.01)**

[25] EN

[54] **FIBER REINFORCED PLASTIC COMPONENTS WITH INCREASED SLIP-RESISTANCE AND METHODS OF MANUFACTURE**

[54] **COMPOSANTS EN PLASTIQUE RENFORCE PAR DES FIBRES PRESENTANT UNE RESISTANCE AU GLISSEMENT ACCRUE ET PROCEDES DE FABRICATION**

[72] WOODLIEF, WALLACE S., US

[71] ENDURO COMPOSITES, INC., US

[85] 2023-06-26

[86] 2021-12-28 (PCT/US2021/065300)

[87] (WO2022/146976)

[30] US (63/131,040) 2020-12-28

[21] **3,203,431**  
[13] A1

[51] **Int.Cl. A23C 21/00 (2006.01) A23J 1/20 (2006.01) A61P 11/00 (2006.01) A61P 21/00 (2006.01) A61P 31/00 (2006.01)**

[25] EN

[54] **METHODS FOR ENHANCING MUSCLE PERFORMANCE OR REDUCING CHRONIC FATIGUE BY ADMINISTERING BOVINE MILK-DERIVED EXOSOMES**

[54] **PROCEDES D'AMELIORATION DE RENDEMENT MUSCULAIRE OU DE REDUCTION DE FATIGUE CHRONIQUE PAR ADMINISTRATION D'EXOSOMES DERIVES DU LAIT BOVIN**

[72] LOPEZ PEDROSA, JOSE MARIA, ES

[72] RUEDA CABRERA, RICARDO, ES

[72] GARCIA MARTINEZ, JORGE, ES

[71] ABBOTT LABORATORIES, US

[85] 2023-06-26

[86] 2021-12-20 (PCT/US2021/064354)

[87] (WO2022/146743)

[30] EP (20383180.5) 2020-12-31

[21] **3,203,432**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 38/17 (2006.01) A61K 47/26 (2006.01) A61P 1/00 (2006.01) A61P 9/10 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 27/02 (2006.01) C07K 14/705 (2006.01) C07K 14/715 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **FORMULATION CONTAINING SOLUBLE GP130 DIMER AND METHOD FOR USING SAME**

[54] **FORMULATION CONTENANT UN DIMERE GP130 SOLUBLE ET SON PROCEDE D'UTILISATION**

[72] LU, SHUYUN, CN

[72] ZHANG, ZHERU, CN

[72] QIAO, JUNHUA, CN

[72] ZHU, JING, CN

[72] WANG, JING, CN

[71] I-MAB BIOPHARMA (HANGZHOU) CO., LTD., CN

[85] 2023-06-26

[86] 2021-12-31 (PCT/CN2021/143870)

[87] (WO2022/143999)

[30] CN (202011624158.8) 2020-12-31

[21] **3,203,433**  
[13] A1

[51] **Int.Cl. E01C 11/24 (2006.01)**

[25] EN

[54] **ANTI-ICING LAMINATE MATERIAL AND USE THEREOF**

[54] **MATERIAU STRATIFIE ANTIGIVRAGE ET SON UTILISATION**

[72] ZHANG, LIANG, CN

[72] LI, WEI, CN

[71] DOW GLOBAL TECHNOLOGIES LLC, CN

[85] 2023-06-26

[86] 2020-12-30 (PCT/CN2020/141161)

[87] (WO2022/141137)

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[21] **3,203,434**  
[13] A1

[51] **Int.Cl. A61K 35/20 (2006.01) A61P 19/02 (2006.01)**  
[25] EN  
[54] **METHOD FOR IMPROVING JOINT HEALTH BY ADMINISTERING BOVINE MILK-DERIVED EXOSOMES**  
[54] **PROCEDE D'AMELIORATION DE LA SANTE ARTICULAIRE PAR ADMINISTRATION D'EXOSOMES DERIVES DU LAIT DE VACHE**  
[72] LOPEZ PEDROSA, JOSE MARIA, ES  
[72] RUEDA CABRERA, RICARDO, ES  
[72] GARCIA MARTINEZ, JORGE, ES  
[71] ABBOTT LABORATORIES, US  
[85] 2023-06-26  
[86] 2021-12-20 (PCT/US2021/064374)  
[87] (WO2022/146746)  
[30] EP (20383181.3) 2020-12-31

[21] **3,203,435**  
[13] A1

[51] **Int.Cl. G06N 10/00 (2022.01)**  
[25] EN  
[54] **QUANTUM COMPUTATION METHOD AND QUANTUM OPERATION CONTROL LAYOUT**  
[54] **PROCEDE DE CALCUL QUANTIQUE ET AGENCEMENT DE COMMANDE D'OPERATION QUANTIQUE**  
[72] LECHNER, WOLFGANG, AT  
[71] PARITY QUANTUM COMPUTING GMBH, AT  
[85] 2023-06-26  
[86] 2021-01-14 (PCT/EP2021/050710)  
[87] (WO2022/152384)

[21] **3,203,436**  
[13] A1

[51] **Int.Cl. E02F 3/407 (2006.01) E02F 3/30 (2006.01) E02F 3/58 (2006.01)**  
[25] EN  
[54] **DIPPER LATTICE FRAME AND WEARABLE STRUCTURAL LINER**  
[54] **CADRE EN TREILLIS DE GODET ET REVETEMENT STRUCTUREL D'USURE**  
[72] JAMILOSA, JAMES G., US  
[71] CATERPILLAR GLOBAL MINING LLC, US  
[85] 2023-06-26  
[86] 2021-12-14 (PCT/US2021/063181)  
[87] (WO2022/146666)  
[30] US (17/139,505) 2020-12-31

[21] **3,203,437**  
[13] A1

[51] **Int.Cl. H04W 12/02 (2009.01)**  
[25] EN  
[54] **INFORMATION TRANSMISSION METHOD AND APPARATUS, RELATED DEVICES, AND STORAGE MEDIUM**  
[54] **PROCEDE ET APPAREIL DE TRANSMISSION D'INFORMATIONS, DISPOSITIFS ASSOCIES, ET SUPPORT DE STOCKAGE**  
[72] CHEN, NINGYU, CN  
[71] CHINA MOBILE COMMUNICATION CO., LTD. RESEARCH INSTITUTE, CN  
[71] CHINA MOBILE COMMUNICATIONS GROUP CO., LTD., CN  
[85] 2023-06-26  
[86] 2021-12-22 (PCT/CN2021/140586)  
[87] (WO2022/143353)  
[30] CN (202011581551.3) 2020-12-28

[21] **3,203,439**  
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) C07D 241/36 (2006.01) C07D 471/04 (2006.01)**  
[25] EN  
[54] **METHODS FOR ENHANCEMENT OF ENGINEERED CELL THERAPIES IN CANCER TREATMENT**  
[54] **PROCEDES D'AMELIORATION DE THERAPIES CELLULAIRES MODIFIEES DANS LE TRAITEMENT DU CANCER**  
[72] LOW, PHILIP S., US  
[72] SRINIVASARAO, MADDURI, US  
[72] LUO, WEICHUAN, US  
[71] PURDUE RESEARCH FOUNDATION, US  
[85] 2023-06-26  
[86] 2022-01-04 (PCT/US2022/011192)  
[87] (WO2022/147576)  
[30] US (63/133,773) 2021-01-04

[21] **3,203,440**  
[13] A1

[51] **Int.Cl. H04L 9/08 (2006.01)**  
[25] EN  
[54] **IDENTITY AUTHENTICATION METHOD AND APPARATUS, DEVICE, CHIP, STORAGE MEDIUM, AND PROGRAM**  
[54] **PROCEDE ET APPAREIL D'AUTHENTIFICATION D'IDENTITE, DISPOSITIF, PUCE, SUPPORT D'ENREGISTREMENT ET PROGRAMME**  
[72] TIE, MANXIA, CN  
[72] CAO, JUN, CN  
[72] LAI, XIAOLONG, CN  
[72] ZHAO, XIAORONG, CN  
[72] LI, QIN, CN  
[72] ZHANG, BIANLING, CN  
[72] WANG, YUEHUI, CN  
[71] CHINA IWNCOMM CO., LTD., CN  
[85] 2023-06-26  
[86] 2021-12-21 (PCT/CN2021/140097)  
[87] (WO2022/135398)  
[30] CN (202011569219.5) 2020-12-26

[21] **3,203,441**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **FORMULATIONS OF ANTI-CD73 ANTIBODIES**  
[54] **FORMULATIONS D'ANTICORPS ANTI-CD73**  
[72] ZHU, JING, CN  
[72] ZHANG, ZHERU, CN  
[72] ZHU, XIANGPING, CN  
[72] YU, YALI, CN  
[71] I-MAB BIOPHARMA CO., LTD., CN  
[85] 2023-06-26  
[86] 2021-05-08 (PCT/CN2021/092485)  
[87] (WO2022/142053)  
[30] CN (PCT/CN2020/141601) 2020-12-30

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[21] **3,203,442**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/90 (2006.01)**  
[25] EN  
[54] **TRANSCRIPTION ACTIVATOR-LIKE EFFECTOR NUCLEASES (TALENS) TARGETING HBV**  
[54] **NUCLEASES EFFECTRICES DE TYPE ACTIVATEUR DE TRANSCRIPTION (TALENS) CIBLANT LE VHB**  
[72] TRELLES, RAMON DIAZ, US  
[72] LAM, MAN LU, US  
[72] TACHIKAWA, KIYOSHI, US  
[72] KARMALI, PRIYA PRAKASH, US  
[72] CHIVUKULA, PADMANABH, US  
[71] ARCTURUS THERAPEUTICS, INC., US  
[85] 2023-06-26  
[86] 2021-12-10 (PCT/US2021/062749)  
[87] (WO2022/146654)  
[30] US (63/131,145) 2020-12-28

[21] **3,203,443**  
[13] A1

[51] **Int.Cl. B29C 65/18 (2006.01) B65B 7/02 (2006.01) B65B 31/02 (2006.01) B65B 31/04 (2006.01) B65B 51/10 (2006.01) B65D 53/00 (2006.01)**  
[25] EN  
[54] **VACUUM CHAMBER FOR SEALING STORAGE BAGS AND ACCESSORIES THEREFOR**  
[54] **CHAMBRE A VIDE POUR SCELLER DES SACS DE STOCKAGE ET ACCESSOIRES CORRESPONDANTS**  
[72] CHO, WILLIAM, US  
[71] CHO, WILLIAM, US  
[85] 2023-06-26  
[86] 2022-01-20 (PCT/US2022/013161)  
[87] (WO2022/159606)  
[30] US (63/139,647) 2021-01-20  
[30] US (63/250,646) 2021-09-30  
[30] US (63/256,191) 2021-10-15  
[30] US (17/579,472) 2022-01-19

[21] **3,203,445**  
[13] A1

[51] **Int.Cl. A61B 17/86 (2006.01)**  
[25] EN  
[54] **REVERSE THREAD BONE SCREW**  
[54] **VIS A OS A FILETAGE INVERSE**  
[72] CHILAKA, NATALIE, US  
[71] UNIVERSITY OF MARYLAND MEDICAL CENTER, LLC, US  
[85] 2023-06-26  
[86] 2021-12-28 (PCT/IB2021/062396)  
[87] (WO2022/144776)  
[30] US (63/131,313) 2020-12-28  
[30] US (17/563,405) 2021-12-28

[21] **3,203,446**  
[13] A1

[51] **Int.Cl. A61K 39/39 (2006.01) A61P 37/04 (2006.01) C07H 15/04 (2006.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **ADJUVANT COMPRISING A GLYCOARCHAEOL AND AN IMMUNOSTIMULANT**  
[54] **ADJUVANT COMPRENANT UN GLYCOARCHEOL ET UN IMMUNOSTIMULANT**  
[72] JIA, YIMEI, CA  
[72] MCCLUSKIE, MICHAEL, CA  
[72] AKACHE, BASSEL, CA  
[72] KRISHNAN, LAKSHMI, CA  
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA  
[85] 2023-06-26  
[86] 2022-01-05 (PCT/IB2022/050067)  
[87] (WO2022/149074)  
[30] US (63/134,251) 2021-01-06

[21] **3,203,447**  
[13] A1

[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/454 (2006.01) A61P 13/12 (2006.01) C07D 401/02 (2006.01) C07D 403/02 (2006.01) C07D 403/06 (2006.01)**  
[25] EN  
[54] **SERIES OF PIPERIDINE-SUBSTITUTED BENZOIC ACID COMPOUNDS, AND USE THEREOF**  
[54] **SERIE DE COMPOSES D'ACIDE BENZOIQUE SUBSTITUES PAR PIPERIDINE ET LEUR UTILISATION**  
[72] CHEN, KEVIN X, CN  
[72] ZHANG, LI, CN  
[72] GUI, HOUZE, CN  
[72] ZHANG, HAOYU, CN  
[72] ZHANG, HUIYU, CN  
[72] HU, GUOPING, CN  
[72] LI, JIAN, CN  
[72] CHEN, SHUHUI, CN  
[71] MEDSHINE DISCOVERY INC., CN  
[85] 2023-06-26  
[86] 2021-12-30 (PCT/CN2021/143257)  
[87] (WO2022/143940)  
[30] CN (2020111610857.7) 2020-12-30  
[30] CN (202110266011.4) 2021-03-11  
[30] CN (202110751316.4) 2021-07-02  
[30] CN (202111234085.6) 2021-10-22

[21] **3,203,471**  
[13] A1

[51] **Int.Cl. G08B 13/196 (2006.01) G01S 17/08 (2006.01)**  
[25] EN  
[54] **MONITORING SYSTEMS**  
[54] **SYSTEMES DE SURVEILLANCE**  
[72] MULLINS, SCOTT CHARLES, US  
[71] RAPTOR VISION, LLC, US  
[85] 2023-06-27  
[86] 2021-12-29 (PCT/US2021/073163)  
[87] (WO2022/147455)  
[30] US (63/132,392) 2020-12-30

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[21] **3,203,478**  
[13] A1

[51] **Int.Cl. B01J 20/26 (2006.01) A61F 13/53 (2006.01) C08F 8/12 (2006.01)**  
[25] EN  
[54] **COMPOSITE ABSORBER, AND POLYMER ABSORBENT**  
[54] **ABSORBEUR COMPOSITE, ET ABSORBANT POLYMERE**  
[72] TAKADA, HITOSHI, JP  
[72] IWAURA, RYOUTA, JP  
[71] ORGANO CORPORATION, JP  
[85] 2023-06-27  
[86] 2021-12-15 (PCT/JP2021/046326)  
[87] (WO2022/145241)  
[30] JP (2020-219823) 2020-12-29

[21] **3,203,480**  
[13] A1

[51] **Int.Cl. G16C 20/50 (2019.01) G06F 16/28 (2019.01) G06N 5/04 (2023.01)**  
[25] EN  
[54] **INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING PROGRAM**  
[54] **DISPOSITIF DE TRAITEMENT D'INFORMATIONS, PROCEDE DE TRAITEMENT D'INFORMATIONS, ET PROGRAMME DE TRAITEMENT D'INFORMATIONS**  
[72] YARIMIZU, HIROKAZU, JP  
[72] HIKIDA, YASUSHI, JP  
[71] FUJI-FILM CORPORATION, JP  
[85] 2023-06-27  
[86] 2021-12-07 (PCT/JP2021/044993)  
[87] (WO2022/149395)  
[30] JP (2021-001611) 2021-01-07

[21] **3,203,490**  
[13] A1

[51] **Int.Cl. C23C 2/06 (2006.01)**  
[25] EN  
[54] **PLATED STEEL MATERIAL**  
[54] **MATERIAU D'ACIER PLAQUE**  
[72] TOKUDA, KOHEI, JP  
[72] SAITO, MAMORU, JP  
[72] MITSUNOBU, TAKUYA, JP  
[72] TOBA, TETSUYA, JP  
[72] GOTO, YASUTO, JP  
[72] MORISHITA, ATSUSHI, JP  
[72] KAWAMURA, YASUAKI, JP  
[72] NAKAMURA, FUMIAKI, JP  
[72] KAWANISHI, KOJI, JP  
[71] NIPPON STEEL CORPORATION, JP  
[85] 2023-06-27  
[86] 2021-11-30 (PCT/JP2021/043848)  
[87] (WO2022/153694)  
[30] JP (2021-005575) 2021-01-18

[21] **3,203,491**  
[13] A1

[51] **Int.Cl. B02C 4/18 (2006.01) B29C 48/465 (2019.01) B02C 4/44 (2006.01) B29B 7/00 (2006.01) B29B 13/02 (2006.01) B29B 17/00 (2006.01) B29C 45/46 (2006.01)**  
[25] EN  
[54] **A ROTOR, A PLASTICS PROCESSING APPARATUS AND AN ASSOCIATED METHOD**  
[54] **ROTOR, APPAREIL DE TRAITEMENT DE PLASTIQUES ET PROCEDE ASSOCIE**  
[72] BARKER, COLIN, AU  
[72] BARKER, PETER, AU  
[72] SLOCOMBE, RONALD, AU  
[71] PLASTECH RECYCLING LIMITED, AU  
[85] 2023-06-27  
[86] 2022-01-14 (PCT/AU2022/050015)  
[87] (WO2022/160003)  
[30] AU (2021900192) 2021-01-29

[21] **3,203,492**  
[13] A1

[51] **Int.Cl. A23C 9/142 (2006.01) A23C 9/144 (2006.01) C13K 5/00 (2006.01)**  
[25] EN  
[54] **DEMINEALISED LACTOSE CONCENTRATE**  
[54] **CONCENTRE DE LACTOSE DEMINEALISE**  
[72] MARSHALL, CAMERON, NL  
[72] NGUYEN, TUAN, NL  
[72] OSPINA MARTINEZ, ANA, NL  
[71] N.V. NUTRICIA, NL  
[85] 2023-06-27  
[86] 2021-12-31 (PCT/EP2021/087902)  
[87] (WO2022/144447)  
[30] EP (21150059.0) 2021-01-04

[21] **3,203,493**  
[13] A1

[51] **Int.Cl. B32B 1/02 (2006.01)**  
[25] EN  
[54] **A RECYCLABLE PAPER-BASED LAMINATE AND A BEVERAGE CARTON MADE THEREFROM**  
[54] **STRATIFIE A BASE DE PAPIER RECYCLABLE ET BOITE PLIANTE EN CARTON DE BOISSON FABRIQUEE A PARTIR DE CE DERNIER**  
[72] ZIMMER, JOHANNES, CH  
[72] VISHTAL, ALEXEY, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2023-06-27  
[86] 2022-02-18 (PCT/EP2022/054041)  
[87] (WO2022/175432)  
[30] EP (21158354.7) 2021-02-22

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[21] **3,203,504**  
[13] A1

[51] **Int.Cl. C02F 1/02 (2006.01) F24S 10/10 (2018.01) C09K 5/10 (2006.01) E02B 15/04 (2006.01) F28D 1/02 (2006.01) F28D 20/02 (2006.01)**

[25] EN

[54] **LOCALIZED HEATING SYSTEM FOR LARGE WATER BODIES WITH A PARTIAL CONFINEMENT SYSTEM**

[54] **SYSTEME DE CHAUFFAGE LOCALISE POUR GRANDES MASSES D'EAU AVEC SYSTEME DE CONFINEMENT PARTIEL**

[72] FISCHMANN, FERNANDO BENJAMIN, US

[72] AMIGO ALVAREZ, JOSE, CL

[71] CRYSTAL LAGOONS TECHNOLOGIES, INC., US

[85] 2023-06-27

[86] 2021-12-23 (PCT/US2021/065093)

[87] (WO2022/146873)

[30] US (63/132,644) 2020-12-31

[21] **3,203,505**  
[13] A1

[51] **Int.Cl. H01R 13/453 (2006.01) H01R 24/78 (2011.01) H01R 13/506 (2006.01)**

[25] EN

[54] **TAMPER RESISTANCE RECEPTACLE**

[54] **PRISE DE COURANT FEMELLE INVOLABLE**

[72] QUAN, YI, CN

[72] CHANG, XINGUO, CN

[71] THE WIREMOLD COMPANY, US

[85] 2023-06-27

[86] 2021-12-29 (PCT/US2021/065423)

[87] (WO2022/147061)

[30] US (17/139,134) 2020-12-31

[21] **3,203,506**  
[13] A1

[51] **Int.Cl. B01D 25/00 (2006.01) B01D 25/164 (2006.01) B01D 25/172 (2006.01) B01D 25/38 (2006.01)**

[25] EN

[54] **FILTER PRESS WITH MULTI-FUNCTION ROBOT FOR MAINTENANCE, TRACKING AND WEAR CONTROL OF FILTERING SEPTA**

[54] **FILTRE-PRESSE AVEC ROBOT MULTIFONCTION POUR LA MAINTENANCE, LE SUIVI ET LE CONTROLE D'USURE DE CLOISONS FILTRANTES**

[72] BASSI, ANDREA, IT

[72] COLLINI, DAVIDE, IT

[72] DARDI, ROBERTO, IT

[71] DIEMME FILTRATION S.R.L., IT

[85] 2023-06-27

[86] 2022-01-14 (PCT/IB2022/050290)

[87] (WO2022/157608)

[30] IT (102021000001145) 2021-01-22

[21] **3,203,508**  
[13] A1

[51] **Int.Cl. H04W 4/029 (2018.01) H04W 4/80 (2018.01)**

[25] EN

[54] **OBJECT TRACKING SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE SUIVI D'OBJET**

[72] OSAUSKAS, MARTYNAS, LT

[72] MACIJAUSKAS, MINDAUGAS, LT

[71] UAB "TELTONIKA IOT GROUP", LT

[85] 2023-06-27

[86] 2021-08-24 (PCT/IB2021/057749)

[87] (WO2022/144612)

[30] LT (LT2020565) 2020-12-29

[21] **3,203,509**  
[13] A1

[25] EN

[54] **METHODS AND SYSTEMS OF AN ENTITY DATABASE**

[54] **PROCEDES ET SYSTEMES D'UNE BASE DE DONNEES D'ENTITES**

[72] KUMAR, SHIRISH, US

[71] LIVERRAMP, INC., US

[85] 2023-06-27

[86] 2021-12-29 (PCT/US2021/065431)

[87] (WO2022/147067)

[30] US (63/133,417) 2021-01-04

[21] **3,203,511**  
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01)**

[25] EN

[54] **MAGNETICALLY COUPLED POWER DELIVERY FOR SURGICAL IMPLANTS**

[54] **DISTRIBUTION D'ENERGIE COUPLEE MAGNETIQUEMENT POUR IMPLANTS CHIRURGICAUX**

[72] RODEHEAVER, AUSTIN XAVIER, US

[72] TABER, TODD, US

[72] BRIANT, JOHN, GB

[72] CORTHORN, GRANT, GB

[72] MAY, ROB, GB

[72] ORRELL, MARTIN, GB

[72] PENHALLURICK, TREVOR, GB

[72] POOLEY, DAVID, GB

[72] WYMAN, CATHERINE, GB

[72] CONSTABLE, CHARLIE, GB

[71] ALCON INC., CH

[85] 2023-06-27

[86] 2022-01-13 (PCT/IB2022/050271)

[87] (WO2022/153216)

[30] US (63/137,841) 2021-01-15

[21] **3,203,513**  
[13] A1

[51] **Int.Cl. A47K 5/12 (2006.01) B65D 77/06 (2006.01)**

[25] EN

[54] **VESSEL AND SYSTEM FOR REDUCING PACKAGING WASTE**

[54] **RECIPIENT ET SYSTEME DE REDUCTION DE DECHETS D'EMBALLAGE**

[72] WELLS, JOEL, AU

[71] CIRCULR RESEARCH PTY LTD, AU

[85] 2023-06-27

[86] 2021-12-14 (PCT/AU2021/051486)

[87] (WO2022/140818)

[30] AU (2020904859) 2020-12-28

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[21] **3,203,517**  
[13] A1

[51] **Int.Cl. H04L 41/0806 (2022.01) H04L 43/04 (2022.01) H04L 43/065 (2022.01) H04L 43/08 (2022.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR EDGE SITE SELECTION AND METRICS CAPTURE**

[54] **SYSTEMES ET PROCEDES DE SELECTION DE SITE DE BORD ET DE CAPTURE DE MESURES**

[72] BENASSI, WILLIAM R., US

[72] O'BRIEN, WILLIAM, US

[71] CENTURYLINK INTELLECTUAL PROPERTY LLC, US

[85] 2023-06-27

[86] 2021-12-29 (PCT/US2021/065514)

[87] (WO2022/147126)

[30] US (63/132,611) 2020-12-31

[30] US (63/138,919) 2021-01-19

[30] US (17/476,708) 2021-09-16

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[21] **3,203,518**  
[13] A1

[51] **Int.Cl. F24B 7/00 (2006.01)**

[25] EN

[54] **NON-ELECTRIC GRAVITY FEED PELLET STOVE**

[54] **POELE A GRANULES A ALIMENTATION PAR GRAVITE NON ELECTRIQUE**

[72] WISENER, GARY L., US

[72] BRADLEY, GENE R., US

[71] INDEPENDENCE STOVE COMPANY LLC, US

[85] 2023-06-27

[86] 2021-07-09 (PCT/US2021/041119)

[87] (WO2022/146490)

[30] US (63/132,483) 2020-12-31

[30] US (17/160,360) 2021-01-27

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[21] **3,203,520**  
[13] A1

[51] **Int.Cl. A01N 43/80 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING WEEDS**

[54] **PROCEDE DE DESHERBAGE**

[72] ITAYA, DAIGO, JP

[71] KUMIAI CHEMICAL INDUSTRY CO., LTD., JP

[85] 2023-06-27

[86] 2022-01-19 (PCT/JP2022/001867)

[87] (WO2022/158499)

[30] JP (2021-006181) 2021-01-19

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[21] **3,203,521**  
[13] A1

[51] **Int.Cl. G07C 9/00 (2020.01) H04L 9/32 (2006.01) G06F 21/44 (2013.01) G06F 3/048 (2013.01)**

[25] EN

[54] **INTELLIGENT ARRANGEMENT OF UNLOCK NOTIFICATIONS**

[54] **AGENCEMENT INTELLIGENT DE NOTIFICATIONS DE DEVERROUILLAGE**

[72] MUKHA, MATVEY, AT

[71] ASSA ABLOY AB, SE

[85] 2023-06-27

[86] 2021-09-14 (PCT/EP2021/075225)

[87] (WO2022/144099)

[30] US (63/132,942) 2020-12-31

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[21] **3,203,522**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**

[25] EN

[54] **OVERLAY OF A FORWARD LINK ON BROADBAND SATELLITE SIGNALS**

[54] **SUPERPOSITION D'UNE LIAISON AVAL SUR DES SIGNAUX SATELLITE A LARGE BANDE**

[72] LEE, LIN-NAN, US

[72] BHASKAR, UDAYA, US

[71] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2023-06-27

[86] 2021-12-22 (PCT/US2021/064807)

[87] (WO2022/146814)

[30] US (17/135,378) 2020-12-28

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[21] **3,203,524**  
[13] A1

[25] EN

[54] **LIME-BASED CEMENT EXTENDER COMPOSITIONS, AND ASSOCIATED SYSTEMS AND METHODS**

[54]

[72] ROMANIUK, NIKOLAS ANDREI, CA

[72] TATE, MICHAEL JOHN, CA

[72] HARIHARAN, NARAIN, CA

[72] LEIKAM, JARED IRA, CA

[72] HYMAN, KATHERINE, CA

[72] MCFARLANE, LUCAS, CA

[72] LEWIS, JOSEPH, CA

[71] GRAYMONT WESTERN CANADA INC., CA

[71] ROMANIUK, NIKOLAS ANDREI, CA

[71] TATE, MICHAEL JOHN, CA

[71] HARIHARAN, NARAIN, CA

[71] LEIKAM, JARED IRA, CA

[71] HYMAN, KATHERINE, CA

[71] MCFARLANE, LUCAS, CA

[71] LEWIS, JOSEPH, CA

[85] 2023-06-27

[86] 2022-12-22 (PCT/US2022/082301)

[87] (3203524)

[30] US (63/293,513) 2021-12-23

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[21] **3,203,526**  
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/689 (2018.01)**

[25] EN

[54] **PATHOGEN DETECTION IN LIQUID MATRIX**

[54] **DETECTION DE PATHOGENES DANS UNE MATRICE LIQUIDE**

[72] DURANDET, FRANZ, FR

[72] PICHON, ELODIE, FR

[72] SAKSAKA, JAWHAR, FR

[72] COUILLEROT, OLIVIER, FR

[71] INGENIERIE ET ANALYSE EN GENETIQUE ENVIRONNEMENTALE, FR

[85] 2023-06-27

[86] 2021-12-30 (PCT/EP2021/087880)

[87] (WO2022/144432)

[30] EP (20306715.2) 2020-12-31

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[21] **3,203,527**  
[13] A1

[51] **Int.Cl. G07C 9/00 (2020.01) G07C 9/20 (2020.01) G07C 9/29 (2020.01)**  
[25] EN  
[54] **PHYSICAL ACCESS CONTROL SYSTEM WITH SECURE RELAY**  
[54] **SYSTEME DE CONTROLE D'ACCES PHYSIQUE AVEC RELAIS SECURISE**  
[72] MUKHA, MATVEY, AT  
[71] ASSA ABLOY AB, SE  
[85] 2023-06-27  
[86] 2021-09-14 (PCT/EP2021/075234)  
[87] (WO2022/144100)  
[30] US (63/132,947) 2020-12-31

[21] **3,203,530**  
[13] A1

[51] **Int.Cl. B62K 3/00 (2006.01) B62K 5/10 (2013.01) B62K 25/04 (2006.01)**  
[25] EN  
[54] **ELECTRIC KICK SCOOTER WITH TILTING REAR AXLE WITH TWO WHEELS**  
[54] **TROTTINETTE ELECTRIQUE A ESSIEU ARRIERE BASCULANT A DEUX ROUES**  
[72] MARIONI, ELIO, IT  
[71] ASKOLL EVA S.P.A., IT  
[85] 2023-06-27  
[86] 2021-12-29 (PCT/EP2021/087768)  
[87] (WO2022/144378)  
[30] IT (102020000032840) 2020-12-30

[21] **3,203,531**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01) C07K 14/725 (2006.01)**  
[25] EN  
[54] **RECOMBINANT VECTORS COMPRISING POLYCISTRONIC EXPRESSION CASSETTES AND METHODS OF USE THEREOF**  
[54] **VECTEURS RECOMBINANTS COMPRENANT DES CASSETTES D'EXPRESSION POLYCISTRONIQUE ET LEURS PROCEDES D'UTILISATION**  
[72] OLIVARES, SIMON, US  
[72] SINGH, HARJEET, US  
[72] COOPER, LAURENCE JAMES NEIL, US  
[72] HURTON, LENKA VICTORIA, US  
[71] ALAUNOS THERAPEUTICS, INC., US  
[85] 2023-06-27  
[86] 2021-12-29 (PCT/US2021/073145)  
[87] (WO2022/147444)  
[30] US (63/132,434) 2020-12-30

[21] **3,203,532**  
[13] A1

[51] **Int.Cl. C02F 1/00 (2006.01) C02F 1/42 (2006.01)**  
[25] EN  
[54] **INTERNET-OF-THINGS ENABLED DEIONIZATION TANK CONFIGURATION ARTIFICIAL INTELLIGENCE ALGORITHM**  
[54] **ALGORITHME D'INTELLIGENCE ARTIFICIELLE DE CONFIGURATION DE RESERVOIR DE DESIONISATION ACTIVE PAR L'INTERNET DES OBJETS**  
[72] BAKOW, JUSTIN, US  
[72] PARKS, RONALD, US  
[71] EVOQUA WATER TECHNOLOGIES, LLC, US  
[85] 2023-06-27  
[86] 2022-01-11 (PCT/US2022/011933)  
[87] (WO2022/150749)  
[30] US (63/135,778) 2021-01-11

[21] **3,203,533**  
[13] A1

[51] **Int.Cl. A61K 31/58 (2006.01) A61K 47/68 (2017.01) A61P 37/06 (2006.01) C07J 7/00 (2006.01)**  
[25] EN  
[54] **NOVEL STEROID PAYLOADS, STEROID LINKERS, ADCS CONTAINING AND USE THEREOF**  
[54] **NOUVELLE CHARGE UTILE DE STEROIDE, LIEURS DE STEROIDES, CAM LES CONTENANT ET UTILISATION ASSOCIEE**  
[72] ROTHSTEIN, JAY, US  
[72] BELL, KIERSTIN, US  
[72] CARRIERE, CATHERINE, US  
[72] MOLLOY, MICHAEL, US  
[72] KUTA, ANNA, US  
[72] SCHWERTNER, NICHOLAS, US  
[72] DAY, MARIA, US  
[72] HUANG, XIN, US  
[72] PECHENICK, DOV, US  
[72] KLINE, TONI, US  
[72] RAJANNA, SHIBHANI, US  
[72] GUO, YALIN, US  
[72] WANG, YINGCAI (IAN), US  
[72] ZHOU, JIEYU, US  
[72] SEREGIN, SERGEY, US  
[72] CLARK, ERIN, US  
[72] MEIMETIS, LABROS, US  
[72] MEDINA, JULIO, US  
[72] SUN, SHENG, US  
[72] KOVAL, ALEXANDER, US  
[72] THUMMANAPPELLI, SRAVAN, US  
[72] BORKIN, DMITRY, US  
[72] LORIYA, RAJESHKUMAR MAGANLAL, US  
[71] IMMUNEXT, INC., US  
[85] 2023-06-27  
[86] 2022-01-07 (PCT/US2022/011687)  
[87] (WO2022/150637)  
[30] US (63/134,811) 2021-01-07  
[30] US (63/138,958) 2021-01-19  
[30] US (63/178,378) 2021-04-22  
[30] US (63/186,447) 2021-05-10  
[30] US (63/188,499) 2021-05-14  
[30] US (63/246,941) 2021-09-22  
[30] US (63/251,939) 2021-10-04  
[30] US (63/271,023) 2021-10-22  
[30] US (63/271,554) 2021-10-25  
[30] US (63/284,886) 2021-12-01  
[30] US (63/290,100) 2021-12-16

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[21] **3,203,534**  
[13] A1

[51] **Int.Cl. B03D 1/004 (2006.01) B03D 1/008 (2006.01) B03D 1/01 (2006.01)**  
[25] EN  
[54] **METHOD FOR FLOTATION OF A SILICATE-CONTAINING IRON ORE**  
[54] **PROCEDE DE FLOTTATION D'UN MINERAL DE FER CONTENANT DU SILICATE**  
[72] BUDEMBERG, GABRIELA, BR  
[72] MICHAILOVSKI, ALEXEJ, DE  
[72] SOBOTKA, BETTINA, DE  
[71] BASF SE, DE  
[85] 2023-06-27  
[86] 2021-12-22 (PCT/EP2021/087348)  
[87] (WO2022/144281)  
[30] EP (21150123.4) 2021-01-04  
[30] EP (21150704.1) 2021-01-08  
[30] EP (21151460.9) 2021-01-13

[21] **3,203,535**  
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR BIOMOLECULE PREPARATION**  
[54] **SYSTEMES ET PROCEDES DE PREPARATION DE BIOMOLECULES**  
[72] KAPP, GREGORY, US  
[72] ROBINSON, JULIA, US  
[72] MALLICK, PARAG, US  
[72] RINKER, TORRI, US  
[72] ANUMALA, DEEPTHI, US  
[71] CIPO, CA  
[71] NAUTILUS SUBSIDIARY, INC., US  
[85] 2023-06-27  
[86] 2022-01-21 (PCT/US2022/013252)  
[87] (WO2022/159663)  
[30] US (63/139,818) 2021-01-21

[21] **3,203,536**  
[13] A1

[51] **Int.Cl. H01M 10/0562 (2010.01) H01M 10/052 (2010.01) H01M 50/431 (2021.01) H01M 50/446 (2021.01) C01B 17/22 (2006.01) C01B 25/08 (2006.01) C01B 25/14 (2006.01)**  
[25] EN  
[54] **COMPOSITION COMPRISING A SULFIDE ELECTROLYTE**  
[54] **COMPOSITION COMPRENANT UN ELECTROLYTE AU SULFURE**  
[72] LOPEZ GONZALEZ, DIEGO, FR  
[72] LE MERCIER, THIERRY, FR  
[72] D'ALENCON, LAURIANE, FR  
[72] BERTRY, LAURE, FR  
[72] BRAIDA, MARC-DAVID, FR  
[72] FINSY, VINCENT, BE  
[71] RHODIA OPERATIONS, FR  
[85] 2023-06-27  
[86] 2022-01-27 (PCT/EP2022/051936)  
[87] (WO2022/162085)  
[30] EP (21305113.9) 2021-01-28  
[30] EP (21315145.9) 2021-08-26

[21] **3,203,552**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **MONOCLONAL ANTIBODY AGAINST HUMAN MAC-1 AND USES THEREOF**  
[54] **ANTICORPS MONOCLONAL CONTRE LE MAC-1 HUMAIN ET SES UTILISATIONS**  
[72] LEE, FRANK WEN-CHI, US  
[72] LU, YEN-TA, TW  
[72] CHANG, CHIA-MING, TW  
[72] HUANG, PING-YEN, TW  
[72] TSAI, I-FANG, TW  
[71] ASCENDO BIOTECHNOLOGY, INC., KY  
[71] LEE, FRANK WEN-CHI, US  
[85] 2023-06-27  
[86] 2021-12-30 (PCT/US2021/065802)  
[87] (WO2022/147338)  
[30] US (63/131,893) 2020-12-30

[21] **3,203,553**  
[13] A1

[51] **Int.Cl. A61K 31/122 (2006.01) C07C 35/37 (2006.01) C07C 49/727 (2006.01) C07C 49/755 (2006.01)**  
[25] EN  
[54] **METHOD FOR TREATING RHABDOID TUMORS**  
[54] **METHODE DE TRAITEMENT DE TUMEURS RHABDOIDES**  
[72] BHATIA, KISHOR, US  
[72] KULKARNI, ADITYA, US  
[71] LANTERN PHARMA INC., US  
[85] 2023-06-27  
[86] 2021-12-29 (PCT/US2021/065441)  
[87] (WO2022/147072)  
[30] US (63/131,752) 2020-12-29

[21] **3,203,554**  
[13] A1

[51] **Int.Cl. G05D 7/06 (2006.01)**  
[25] EN  
[54] **GRANULAR CONTROL OF WATER DISTRIBUTION SYSTEM PRESSURE**  
[54] **REGULATION GRANULAIRE DE LA PRESSION D'UN SYSTEME DE DISTRIBUTION D'EAU**  
[72] KANN, JAMES LEE, US  
[71] ITRON, INC., US  
[85] 2023-06-27  
[86] 2021-12-20 (PCT/US2021/064447)  
[87] (WO2022/203736)  
[30] US (17/209,028) 2021-03-22

[21] **3,203,557**  
[13] A1

[51] **Int.Cl. A61B 46/10 (2016.01) A61B 90/50 (2016.01) A61B 90/57 (2016.01)**  
[25] EN  
[54] **POSITIONING ARM**  
[54] **BRAS DE POSITIONNEMENT**  
[72] VOGELE, MICHAEL, DE  
[71] ISYS MEDIZINTECHNIK GMBH, AT  
[85] 2023-06-27  
[86] 2021-12-22 (PCT/EP2021/087291)  
[87] (WO2022/144273)  
[30] DE (20 2020 107 591.8) 2020-12-29



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[13] A1

[51] **Int.Cl. C08L 67/04 (2006.01)**  
[25] EN  
[54] **POLYMER BLEND**  
[54] **MELANGE DE POLYMERES**  
[72] GILL, ANDREW, GB  
[71] FLOREON TECHNOLOGY LTD, GB  
[85] 2023-06-27  
[86] 2022-01-05 (PCT/EP2022/050106)  
[87] (WO2022/152598)  
[30] GB (2100551.7) 2021-01-15

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[21] **3,203,560**  
[13] A1

[51] **Int.Cl. A63B 71/00 (2006.01)**  
[25] EN  
[54] **PATIENT-CENTERED MUSCULOSKELETAL (MSK) CARE SYSTEM AND ASSOCIATED PROGRAMS FOR THERAPIES FOR DIFFERENT ANATOMICAL REGIONS**  
[54] **SYSTEME DE SOINS MUSCULO-SQUELETTIQUES (MSK) CENTRE SUR LE PATIENT ET PROGRAMMES ASSOCIES POUR THERAPIES DESTINEES A DIFFERENTES REGIONS ANATOMIQUES**  
[72] HUNTER, SIMON, US  
[72] PEREZ, DANIEL, US  
[72] MECKLENBURG, GABRIEL, US  
[72] REMAK, AVIGAIL, US  
[72] PLETCHER, CHARLES, US  
[72] KINSELLA, ROSE, US  
[71] HINGE HEALTH, INC., US  
[85] 2023-06-27  
[86] 2022-02-04 (PCT/US2022/015248)  
[87] (WO2022/170051)  
[30] US (63/145,930) 2021-02-04

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[21] **3,203,561**  
[13] A1

[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/395 (2006.01) A61K 31/435 (2006.01) A61K 31/44 (2006.01) A61K 31/445 (2006.01) A61P 23/00 (2006.01) A61P 23/02 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **SUSTAINED RELEASE DRUG DELIVERY SYSTEMS AND RELATED METHODS**  
[54] **SYSTEMES D'ADMINISTRATION DE MEDICAMENT A LIBERATION PROLONGEE ET PROCEDES ASSOCIES**  
[72] VERITY, ADRIAN NEIL, US  
[72] HALLADAY, STEVEN, US  
[72] MILLER, VAELING, US  
[72] LANGECKER, PETER, US  
[72] LISSIN, DMITRI, US  
[72] MIKSZTAL, ANDREW R., US  
[72] JOICE, JUDY, US  
[72] AUTIO, SUSAN, US  
[72] DAVIS, MARK P., US  
[71] DURECT CORPORATION, US  
[85] 2023-06-27  
[86] 2022-01-11 (PCT/US2022/012050)  
[87] (WO2022/155159)  
[30] US (63/136,616) 2021-01-12

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[21] **3,203,563**  
[13] A1

[51] **Int.Cl. H04L 67/10 (2022.01) H04L 67/12 (2022.01) H04L 67/565 (2022.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR REMOTE DEVICE MONITORING**  
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE DISPOSITIF A DISTANCE**  
[72] BENNETT, CRAIG, GB  
[72] LEACH, ANDREW, US  
[71] BL TECHNOLOGIES INC., US  
[85] 2023-06-27  
[86] 2021-12-21 (PCT/US2021/064498)  
[87] (WO2022/146765)  
[30] US (63/132,853) 2020-12-31

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[21] **3,203,579**  
[13] A1

[51] **Int.Cl. A47L 13/58 (2006.01)**  
[25] EN  
[54] **RINSE BUCKET FOR FLOOR MOP**  
[54] **SEAU DE RINCAGE POUR BALAI SERPILLIERE**  
[72] METZEL, DOUG, US  
[71] CARL FREUDENBERG KG, DE  
[85] 2023-06-28  
[86] 2021-12-09 (PCT/EP2021/085054)  
[87] (WO2022/148596)  
[30] US (17/143,631) 2021-01-07

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[21] **3,203,593**  
[13] A1

[51] **Int.Cl. H04L 67/51 (2022.01) H04L 67/101 (2022.01) H04L 67/1014 (2022.01) H04L 67/1021 (2022.01) H04L 67/52 (2022.01)**  
[25] EN  
[54] **RECOMMENDATION AND IMPLEMENTATION SYSTEMS AND METHODS FOR EDGE COMPUTING**  
[54] **SYSTEMES ET PROCEDES DE RECOMMANDATION ET DE MISE EN ?UVRE POUR L'INFORMATIQUE EN PERIPHERIQUE**  
[72] O'BRIEN, WILLIAM, US  
[71] CENTURYLINK INTELLECTUAL PROPERTY LLC, US  
[85] 2023-06-28  
[86] 2021-12-14 (PCT/US2021/063316)  
[87] (WO2022/146676)  
[30] US (63/132,193) 2020-12-30

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[21] **3,203,597**  
[13] A1

[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/44 (2006.01)**  
[25] EN  
[54] **PUSHABLE MPO CONNECTOR**  
[54] **CONNECTEUR MPO POUVANT ETRE POUSSE**  
[72] LEESON, KIM, GB  
[72] ETHERIDGE, HARVEY, GB  
[72] TREZISE, SHAUN, GB  
[71] PPC BROADBAND FIBER LTD., GB  
[85] 2023-06-28  
[86] 2022-01-03 (PCT/US2022/011059)  
[87] (WO2022/147513)

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[21] **3,203,601**  
[13] A1

[51] **Int.Cl. G06F 8/76 (2018.01) G06F 11/34 (2006.01) G06F 11/36 (2006.01) G06N 3/04 (2023.01) G06N 3/08 (2023.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR APPLICATION ACCESSIBILITY TESTING WITH ASSISTIVE LEARNING**

[54] **SYSTEMES ET PROCEDES D'ESSAI D'ACCESSIBILITE D'APPLICATION A L'AIDE DE L'APPRENTISSAGE D'ASSISTANCE**

[72] MOSSLER, LARA, US  
[72] PRATHIPATI, JAYANTH, US  
[71] CAPITAL ONE SERVICES, LLC, US  
[85] 2023-06-28  
[86] 2022-01-25 (PCT/US2022/013621)  
[87] (WO2022/164771)  
[30] US (17/159,803) 2021-01-27

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[21] **3,203,602**  
[13] A1

[51] **Int.Cl. G06K 19/077 (2006.01) G06Q 20/32 (2012.01) G06Q 20/40 (2012.01) H04W 4/80 (2018.01) H04B 5/00 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR DISCRIMINATING ONE OF A GROUP OF NFC TRANSMITTERS**

[54] **PROCEDE ET DISPOSITIF POUR DISTINGUER UN EMETTEUR NFC D'UN GROUPE D'EMETTEURS NFC**

[72] ESTREEMERA, RUBY RUE ROMAN, US  
[72] NALLY, DEBORAH, US  
[72] HALLAQ, LAITH, US  
[71] CAPITAL ONE SERVICES, LLC, US  
[85] 2023-06-28  
[86] 2022-01-25 (PCT/US2022/013632)  
[87] (WO2022/164778)  
[30] US (17/159,768) 2021-01-27

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[21] **3,203,606**  
[13] A1

[51] **Int.Cl. F02F 1/40 (2006.01)**

[25] EN

[54] **PRE-CHAMBER AND INTERNAL COMBUSTION ENGINE**

[54] **PRECHAMBRE ET MOTEUR A COMBUSTION INTERNE**

[72] FANKHAUSER, THOMAS, AT  
[71] INNIO JENBACHER GMBH & CO OG, AT  
[85] 2023-06-28  
[86] 2021-06-02 (PCT/AT2021/060197)  
[87] (WO2022/251889)

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[21] **3,203,608**  
[13] A1

[51] **Int.Cl. C10G 9/16 (2006.01) B01D 45/04 (2006.01) B07B 7/01 (2006.01) C10G 70/06 (2006.01)**

[25] EN

[54] **PROCESSES AND SYSTEMS FOR REMOVING COKE PARTICLES FROM A PYROLYSIS EFFLUENT**

[54] **PROCEDES ET SYSTEMES POUR ELIMINER DES PARTICULES DE COKE D'UN EFFLUENT DE PYROLYSE**

[72] HIRST, THOMAS T., US  
[72] STEPHENS, GEORGE, US  
[72] SPICER, DAVID, US  
[71] EXXONMOBIL CHEMICAL PATENTS INC., US  
[85] 2023-06-28  
[86] 2021-12-30 (PCT/US2021/065604)  
[87] (WO2022/150218)  
[30] US (63/135,259) 2021-01-08  
[30] EP (21161155.3) 2021-03-08

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[21] **3,203,616**  
[13] A1

[51] **Int.Cl. A61M 5/158 (2006.01) A61M 5/162 (2006.01) A61M 5/20 (2006.01) A61M 5/315 (2006.01)**

[25] EN

[54] **NEEDLE HUB FOR DRUG DELIVERY DEVICE**

[54] **RACCORD D'AIGUILLE POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**

[72] BEGUIN, STEVE, IE  
[72] COLEMAN, DAVID JAMES, IE  
[72] LE GAL REDON, PATRICK, FR  
[72] PLEVNIK, MARKO, GB  
[72] LYELL, NATHAN, GB  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2023-06-28  
[86] 2022-01-05 (PCT/US2022/011205)  
[87] (WO2022/150317)  
[30] US (63/134,054) 2021-01-05

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[21] **3,203,617**  
[13] A1

[51] **Int.Cl. G07C 9/30 (2020.01) G08B 21/02 (2006.01) G08B 21/24 (2006.01)**

[25] EN

[54] **PERSONAL PROTECTION EQUIPMENT NETWORK (PPE-N)**

[54] **RESEAU D'EQUIPEMENT DE PROTECTION PERSONNELLE (PPE-N)**

[72] DAVIS, ALAN WESLEY, US  
[71] ATTACHE HOLDINGS LLC, US  
[85] 2023-06-28  
[86] 2022-02-08 (PCT/US2022/015691)  
[87] (WO2022/173762)  
[30] US (63/147,875) 2021-02-10

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[21] **3,203,619**  
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/34 (2006.01) A61M 25/18 (2006.01)**  
[25] EN  
[54] **NEEDLE HUB AND APPLICATOR FOR DRUG DELIVERY DEVICE**  
[54] **EMBASE D'AIGUILLE ET APPLICATEUR POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENTS**  
[72] BEGUIN, STEVE, IE  
[72] COLEMAN, DAVID JAMES, IE  
[72] LE GAL REDON, PATRICK, FR  
[72] PLEVNIK, MARKO, GB  
[72] LYELL, NATHAN, GB  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2023-06-28  
[86] 2022-01-05 (PCT/US2022/011206)  
[87] (WO2022/150318)  
[30] US (63/134,054) 2021-01-05

[21] **3,203,621**  
[13] A1

[51] **Int.Cl. A61M 5/31 (2006.01) A61M 5/32 (2006.01) A61M 25/00 (2006.01) A61M 25/01 (2006.01) A61M 25/06 (2006.01)**  
[25] EN  
[54] **NEEDLE HUB FOR DRUG DELIVERY DEVICE**  
[54] **RACCORD D'AIGUILLE POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**  
[72] COLEMAN, DAVID JAMES, IE  
[72] BEGUIN, STEVE, IE  
[72] LE GAL REDON, PATRICK, FR  
[72] PLEVNIK, MARKO, GB  
[72] LYELL, NATHAN, GB  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2023-06-28  
[86] 2022-01-05 (PCT/US2022/011207)  
[87] (WO2022/150319)  
[30] US (63/134,054) 2021-01-05

[21] **3,203,629**  
[13] A1

[51] **Int.Cl. G01S 17/48 (2006.01) G01C 3/22 (2006.01) G01S 17/66 (2006.01)**  
[25] EN  
[54] **TRACKING LASER RANGE FINDER SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE A TELEMETRE LASER DE SUIVI**  
[72] HUMPHREY, MALCOLM, US  
[72] VISHNIA, ITAI, US  
[71] PLX, INC., US  
[85] 2023-06-28  
[86] 2021-11-22 (PCT/US2021/072543)  
[87] (WO2022/147391)  
[30] US (63/131,252) 2020-12-28  
[30] US (17/225,281) 2021-04-08

[21] **3,203,630**  
[13] A1

[51] **Int.Cl. B32B 29/00 (2006.01) D21H 19/00 (2006.01) D21H 19/02 (2006.01) D21H 19/84 (2006.01)**  
[25] EN  
[54] **A RECYCLABLE CARDBOARD PACKAGING MATERIAL COMPRISING A METALLIZED BARRIER LAYER APPLIED BY TRANSFER METALLIZATION**  
[54] **MATERIAU D'EMBALLAGE EN CARTON RECYCLABLE COMPRENANT UNE COUCHE BARRIERE METALLISEE APPLIQUEE PAR METALLISATION PAR TRANSFERT**  
[72] VISHTAL, ALEXEY, CH  
[72] ZIMMER, JOHANNES, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2023-06-28  
[86] 2022-02-18 (PCT/EP2022/054043)  
[87] (WO2022/175433)  
[30] EP (21158356.2) 2021-02-22

[21] **3,203,633**  
[13] A1

[51] **Int.Cl. H04L 41/5051 (2022.01) H04L 41/0806 (2022.01) H04L 41/084 (2022.01) H04L 41/04 (2022.01) H04L 41/22 (2022.01) H04L 41/344 (2022.01)**  
[25] EN  
[54] **EDGE COMPUTE ENVIRONMENT CONFIGURATION TOOL**  
[54] **OUTIL DE CONFIGURATION D'ENVIRONNEMENT INFORMATIQUE DE PERIPHERIE**  
[72] DREYER, BRYAN, US  
[72] MCBRIDE, KEVIN, US  
[71] LEVEL 3 COMMUNICATIONS, LLC, US  
[85] 2023-06-28  
[86] 2021-12-29 (PCT/US2021/065485)  
[87] (WO2022/147102)  
[30] US (63/132,100) 2020-12-30

[21] **3,203,641**  
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/113 (2010.01)**  
[25] EN  
[54] **METHOD FOR TREATING OCULAR SURFACE DISEASES**  
[54] **PROCEDE DE TRAITEMENT DE MALADIES DE SURFACE OCULAIRE**  
[72] JUO, SUH-HANG, CN  
[72] LIANG, CHUNG-LING, CN  
[71] DREAMHAWK VISION BIOTECH, INC., CN  
[85] 2023-06-28  
[86] 2021-08-09 (PCT/CN2021/111575)  
[87] (WO2022/148016)  
[30] US (63/134,599) 2021-01-07

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[21] **3,203,646**  
[13] A1

[51] **Int.Cl. F02B 43/10 (2006.01) F02C 3/24 (2006.01) F02C 7/224 (2006.01) F02G 5/02 (2006.01) F02M 21/02 (2006.01)**

[25] EN

[54] **INTERNAL COMBUSTION ENGINE**

[54] **MOTEUR A COMBUSTION INTERNE**

[72] SPYRA, NIKOLAUS, AT

[72] FIMML, WOLFGANG, AT

[72] URL, MICHAEL, DE

[71] INNIO JENBACHER GMBH & CO OG, AT

[85] 2023-06-28

[86] 2021-04-19 (PCT/AT2021/060127)

[87] (WO2022/221889)

[21] **3,203,647**  
[13] A1

[51] **Int.Cl. G01R 31/00 (2006.01) H02J 50/10 (2016.01) G01R 31/50 (2020.01) G01R 31/52 (2020.01) G01R 31/54 (2020.01) G01R 31/55 (2020.01) G01R 31/58 (2020.01) G01R 31/08 (2020.01)**

[25] EN

[54] **FAULT PREDICTIVE MONITORING SYSTEM ON A MEDIUM AND/OR HIGH VOLTAGE LINE**

[54] **SYSTEME DE SURVEILLANCE DE DEFAILLANCES SUR UNE LIGNE DE MOYENNE ET/OU HAUTE TENSION**

[72] SEPULVEDA LEON, GAGARIN ANIBAL, CL

[71] SEPULVEDA LEON, GAGARIN ANIBAL, CL

[85] 2023-06-28

[86] 2021-12-30 (PCT/IB2021/062461)

[87] (WO2022/144822)

[30] US (63/132,041) 2020-12-30

[21] **3,203,653**  
[13] A1

[51] **Int.Cl. H05B 45/24 (2020.01)**

[25] EN

[54] **CONTROLLABLE LIGHTING DEVICE**

[54] **DISPOSITIF D'ECLAIRAGE POUVANT ETRE COMMANDE**

[72] HARTE, MATTHEW V., US

[72] NAIK, SHARATH R., US

[72] PETERSEN, ALEXANDER S., US

[72] SPICER, RYAN M., US

[72] TAIPALE, MARK S., US

[71] LUTRON TECHNOLOGY COMPANY LLC, US

[85] 2023-06-28

[86] 2022-01-13 (PCT/US2022/012361)

[87] (WO2022/155374)

[30] US (63/136,908) 2021-01-13

[21] **3,203,655**  
[13] A1

[51] **Int.Cl. C25C 3/34 (2006.01) C01F 17/229 (2020.01)**

[25] EN

[54] **METHOD FOR ELECTROWINNING NEODYMIUM COMPOUND AND MANUFACTURING METHOD FOR NEODYMIUM COMPOUND GRANULES USED THEREOF**

[54] **PROCEDE DE RAFFINAGE ELECTROLYTIQUE POUR COMPOSE DE NEODYME ET PROCEDE DE PREPARATION POUR GRANULE DE COMPOSE DE NEODYME UTILISE A CET EFFET**

[72] RYU, HONG YOUL, KR

[72] WOO, HWA YOUNG, KR

[72] RI, VLADISLAV, KR

[72] SONG, JU HWAN, KR

[72] KIM, JEONG MO, KR

[71] KSM TECHNOLOGY CO., LTD., KR

[85] 2023-06-28

[86] 2022-09-06 (PCT/KR2022/013361)

[87] (WO2023/038401)

[30] KR (10-2021-0120861) 2021-09-10

[21] **3,203,660**  
[13] A1

[51] **Int.Cl. A23J 3/22 (2006.01) A23L 33/10 (2016.01) A23J 3/14 (2006.01)**

[25] EN

[54] **PLANT-BASED CONNECTIVE TISSUE ANALOGS**

[54] **ANALOGUES DE TISSU CONJONCTIF A BASE DE PLANTE**

[72] BAIER, STEFAN, US

[71] MOTIF FOOD WORKS, INC., US

[85] 2023-06-28

[86] 2021-12-31 (PCT/US2021/065833)

[87] (WO2022/147357)

[30] US (63/133,055) 2020-12-31

[21] **3,203,663**  
[13] A1

[51] **Int.Cl. B63B 59/08 (2006.01)**

[25] EN

[54] **INTEGRATED SYSTEM FOR REMOVING AND TREATING MARINE BIOFOULING ON SUBMERGED METAL SURFACES**

[54] **SYSTEME INTEGRE POUR L'ELIMINATION ET LE TRAITEMENT DE LA BIO-INCRUSTATION MARINE SUR DES SURFACES METALLIQUES SUBMERGEES**

[72] LIGEIRO BARBOSA, MARCELO LUIZ, BR

[72] DE SOUZA CORREIA, EDISIENE, BR

[72] SARMENTO NEVES DA ROCHA, LUCAS, BR

[72] DOS SANTOS ALMEIDA, EDNA, BR

[72] DOS SANTOS DE MENESES, MATEUS, BR

[72] DA SILVA JORGE, CARLOS EDUARDO, BR

[72] GARCIA DE OLIVEIRA, FREDERICO, BR

[72] MORENO LEDEZMA, LUIS CARLOS, BR

[72] QUIRINO DA SILVA, ALEXANDRO, BR

[72] RANYERE SANTANA DE OLIVEIRA, JOAQUIM, BR

[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR

[71] SERVICIO NACIONAL DE APRENDIZAGEM INDUSTRIAL, DEPARTAMENTO REGIONAL DA BAHIA-SENAI/DR/BA, BR

[85] 2023-06-28

[86] 2021-12-20 (PCT/BR2021/050568)

[87] (WO2022/140830)

[30] BR (BR 10 2020 026998 4) 2020-12-30

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[21] **3,203,665**  
[13] A1

[51] **Int.Cl. C25B 1/23 (2021.01) C25B 3/26 (2021.01) C25B 9/15 (2021.01) C25B 9/19 (2021.01) C25B 11/052 (2021.01) C25B 11/057 (2021.01) C25B 11/065 (2021.01) C25B 11/075 (2021.01) C25B 11/081 (2021.01) C25B 15/029 (2021.01) C25B 15/08 (2006.01)**

[25] EN

[54] **SELF-CLEANING CO2 REDUCTION SYSTEM AND RELATED METHODS**

[54] **SYSTEME DE REDUCTION DU CO2 A AUTO-NETTOYAGE ET PROCEDES ASSOCIES**

[72] SARGENT, EDWARD, CA  
[72] SINTON, DAVID, CA  
[72] XU, YI, CA  
[72] EDWARDS, JONATHAN P., CA  
[71] TOTALENEGIES ONETECH, FR  
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA

[85] 2023-06-28  
[86] 2022-01-10 (PCT/EP2022/050323)  
[87] (WO2022/148856)  
[30] US (63/136,068) 2021-01-11  
[30] US (63/200,513) 2021-03-11  
[30] LU (LU102697) 2021-03-25

[21] **3,203,668**  
[13] A1

[51] **Int.Cl. G21F 9/00 (2006.01) G21F 9/28 (2006.01)**

[25] EN

[54] **AUTONOMOUS PATH PLANNING AND PATH EXECUTION FOR DECONTAMINATION OF NUCLEAR POWER PLANT OBJECTS**

[54] **PLANIFICATION ET EXECUTION AUTONOMES DE TRAJETS POUR LA DECONTAMINATION D'OBJETS DE CENTRALES NUCLEAIRES**

[72] LAPRESTI, MICHAEL A., US  
[72] BROWN, DANE P., US  
[72] BRUCE IV, W. EDWARD, US  
[72] PETROSKY, LYMAN J., US  
[72] BHAI, NICHOLAS N., US  
[72] PARK, JOONWHEE, US  
[72] NARASIMHADEVARA, MURALI TEJO VIJAY, US

[72] SCHNEPF, MARK, US  
[72] GLOVER, JARED, US  
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US

[85] 2023-06-28  
[86] 2021-12-22 (PCT/US2021/073088)  
[87] (WO2022/147414)  
[30] US (17/134,619) 2020-12-28

[21] **3,203,672**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**

[25] EN

[54] **TRANSMODULATION FOR A MULTI-BEAM SATELLITE COMMUNICATION SYSTEM**

[54] **TRANSMODULATION POUR UN SYSTEME DE COMMUNICATION PAR SATELLITE A FAISCEAUX MULTIPLES**

[72] CHEN, LIPING, US  
[72] SESHARDI, ROHIT IYER, US  
[72] EROZ, MUSTAFA, US  
[72] LEE, LIN-NAN, US  
[72] KAY, STAN, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2023-06-28  
[86] 2021-12-22 (PCT/US2021/064874)  
[87] (WO2022/146829)  
[30] US (17/137,269) 2020-12-29

[21] **3,203,675**  
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01) G16H 50/20 (2018.01) G16H 50/50 (2018.01) A61B 3/10 (2006.01) A61B 3/107 (2006.01)**

[25] EN

[54] **REFINING LENS PARAMETERS OF AN OCULAR MODEL**

[54] **AFFINAGE DE PARAMETRES DE LENTILLE DE MODELE OCULAIRE**

[72] PETTIT, GEORGE HUNTER, US  
[72] NEKRASSOV, DANIIL, DE  
[72] ZIEGER, PETER, DE  
[72] GRUNDIG, MARTIN, DE  
[72] GRECU, HORIA, DE  
[72] ZIELKE, MARK ANDREW, US  
[72] CAMPIN, JOHN ALFRED, US  
[71] ALCON INC., CH

[85] 2023-06-28  
[86] 2022-01-13 (PCT/IB2022/050257)  
[87] (WO2022/157605)  
[30] US (63/139,583) 2021-01-20

[21] **3,203,676**  
[13] A1

[51] **Int.Cl. C07H 19/16 (2006.01) C07D 473/34 (2006.01)**

[25] EN

[54] **ADENOSINE A3 RECEPTOR AGONISTS, PREPARATION METHODS AND USES THEREOF**

[54] **AGONISTE RECEPTEUR A3 DE L'ADENOSINE, PROCEDE DE PREPARATION ASSOCIE ET UTILISATION ASSOCIEE**

[72] HU, CHONGBO, CN  
[72] YE, JINQI, CN  
[72] PAN, SHUHUA, CN  
[72] HU, NING, CN  
[72] PAN, TINGTING, CN  
[72] ZHAO, LONG, CN  
[72] CHEN, ZHENGSHU, CN  
[72] SUN, SANXING, CN  
[71] ZHEJIANG VIMGREEN PHARMACEUTICALS, LTD, CN

[85] 2023-06-28  
[86] 2021-12-29 (PCT/CN2021/142384)  
[87] (WO2022/143740)  
[30] CN (202011601817.6) 2020-12-29

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[21] **3,203,726**  
[13] A1

[51] **Int.Cl. G06N 3/08 (2023.01)**  
[25] EN  
[54] **INTEGRATED FEATURE ENGINEERING**  
[54] **INGENIERIE DES CARACTERISTIQUES INTEGREE**  
[72] FIRMIN, SYDNEY MARIE, US  
[72] KANTER, JAMES MAX, US  
[72] VEERAMACHANENI, KALYAN KUMAR, US  
[71] ALTERYX, INC., US  
[85] 2023-06-28  
[86] 2021-12-16 (PCT/US2021/063895)  
[87] (WO2022/146713)  
[30] US (17/137,720) 2020-12-30

[21] **3,203,727**  
[13] A1

[51] **Int.Cl. G02B 6/36 (2006.01)**  
[25] EN  
[54] **OPTICAL CONNECTOR**  
[54] **CONNECTEUR OPTIQUE**  
[72] SEINO, RIRIKA, JP  
[71] FUJIKURA LTD., JP  
[85] 2023-06-28  
[86] 2021-11-24 (PCT/JP2021/042889)  
[87] (WO2022/190467)  
[30] JP (2021-039283) 2021-03-11

[21] **3,203,728**  
[13] A1

[51] **Int.Cl. H01M 10/04 (2006.01) H01M 10/0525 (2010.01)**  
[25] EN  
[54] **BATTERY ASSEMBLY AND PROCESSING METHOD AND APPARATUS THEREFOR, BATTERY CELL, BATTERY, AND POWER CONSUMING APPARATUS**  
[54]  
[72] NI, JUN, CN  
[72] ZHAO, FENGGANG, CN  
[72] ZHANG, SHENGWU, CN  
[72] TANG, MINGHAO, CN  
[72] LIN, WENFA, CN  
[72] YE, JIE, CN  
[71] CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED, CN  
[85] 2023-06-28  
[86] 2021-07-23 (PCT/CN2021/108057)  
[87] (WO2023/000289)

[21] **3,203,729**  
[13] A1

[51] **Int.Cl. C03C 3/095 (2006.01) C03C 25/255 (2018.01) C03C 4/08 (2006.01) C03C 13/00 (2006.01) C03C 13/06 (2006.01) C03C 25/30 (2018.01) D01F 9/08 (2006.01) D06M 13/02 (2006.01) D06M 13/12 (2006.01) D06M 15/227 (2006.01) G21F 1/06 (2006.01) G21F 3/00 (2006.01)**  
[25] EN  
[54] **INORGANIC COMPOSITION AND FIBERS AND FLAKES THEREOF**  
[54] **COMPOSITION INORGANIQUE ET FIBRES ET FLOCONS CORRESPONDANTS**  
[72] FUKAZAWA, HIROSHI, JP  
[71] NIPPON FIBER CORPORATION, JP  
[85] 2023-06-28  
[86] 2021-12-26 (PCT/JP2021/048446)  
[87] (WO2022/145401)  
[30] JP (2020-219360) 2020-12-28  
[30] JP (2021-156925) 2021-09-27

[21] **3,203,730**  
[13] A1

[51] **Int.Cl. A61B 90/40 (2016.01) A61G 12/00 (2006.01)**  
[25] EN  
[54] **MEDICAL DEVICE SUPPORT SYSTEM INCLUDING ROTATIONAL CONTROL MECHANISM**  
[54] **SYSTEME DE SUPPORT DE DISPOSITIF MEDICAL COMPRENANT UN MECANISME DE COMMANDE DE ROTATION**  
[72] HESER, MICHAEL JOSEPH, US  
[72] PICHLER, JERIME JOSEF, US  
[71] AMERICAN STERLIZER COMPANY, US  
[85] 2023-06-28  
[86] 2021-12-15 (PCT/US2021/063448)  
[87] (WO2022/150157)  
[30] US (63/134,248) 2021-01-06  
[30] US (63/134,254) 2021-01-06  
[30] US (63/134,263) 2021-01-06

[21] **3,203,731**  
[13] A1

[51] **Int.Cl. A61B 90/50 (2016.01) A61G 12/00 (2006.01) F16D 49/08 (2006.01)**  
[25] EN  
[54] **MEDICAL DEVICE SUPPORT SYSTEM INCLUDING ROTATIONAL CONTROL MECHANISM**  
[54] **SYSTEME DE SUPPORT DE DISPOSITIF MEDICAL COMPRENANT UN MECANISME DE COMMANDE ROTATIF**  
[72] HESER, MICHAEL JOSEPH, US  
[72] PICHLER, JERIME JOSEF, US  
[71] AMERICAN STERILIZER COMPANY, US  
[85] 2023-06-28  
[86] 2021-12-15 (PCT/US2021/063478)  
[87] (WO2022/150159)  
[30] US (63/134,248) 2021-01-06  
[30] US (63/134,254) 2021-01-06  
[30] US (63/134,263) 2021-01-06

[21] **3,203,732**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01) C07K 16/18 (2006.01)**  
[25] EN  
[54] **ANTI-SURVIVIN ANTIBODIES FOR TREATMENT OF AUTOIMMUNE DISEASES**  
[54] **ANTICORPS ANTI-SURVIVINE POUR LE TRAITEMENT DE MALADIES AUTO-IMMUNES**  
[72] FENSTERMAKER, ROBERT A., US  
[72] CIESIELSKI, MICHAEL J., US  
[71] HEALTH RESEARCH, INC., US  
[85] 2023-06-28  
[86] 2021-12-23 (PCT/US2021/065136)  
[87] (WO2022/146887)  
[30] US (63/132,964) 2020-12-31

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[21] <b>3,204,097</b> [13] A1	[21] <b>3,204,411</b> [13] A1	[21] <b>3,204,459</b> [13] A1
[51] <b>Int.Cl. H05B 45/325 (2020.01) H05B 47/18 (2020.01)</b>	[51] <b>Int.Cl. C07D 209/16 (2006.01) A61K 31/4045 (2006.01) A61P 15/00 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) C12P 17/10 (2006.01) C12N 9/02 (2006.01)</b>	[51] <b>Int.Cl. A61K 9/14 (2006.01) A61K 9/50 (2006.01) A61K 31/352 (2006.01) A61K 31/465 (2006.01) A61K 47/38 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>APPARATUS AND METHOD FOR SELECTIVELY COUPLING A DALI-COMPATIBLE CONTROLLER AND/OR A DALI-COMPATIBLE POWER SUPPLY TO A DALI NETWORK BUS THROUGH A POWERLINE INTERFACE OF A SMART CONTROL DEVICE</b>	[54] <b>CRYSTALLINE BUFOTENIDINE COMPOUNDS</b>	[54] <b>A NEW POWDER COMPOSITION</b>
[54] <b>APPAREIL ET PROCÉDE POUR COUPLER SÉLECTIVEMENT UN DISPOSITIF DE COMMANDE COMPATIBLE DALI ET/OU UNE ALIMENTATION ÉLECTRIQUE COMPATIBLE DALI A UN BUS DE RESEAU DALI PAR L'INTERMEDIA IRE D'UNE INTERFACE DE COURANT PORTEUR D'UN DISPOSITIF DE COMMANDE INTELLIGENT</b>	[54] <b>COMPOSES DE BUFOTENIDINE CRISTALLINS</b>	[54] <b>NOUVELLE COMPOSITION DE POUFRE</b>
[72] LEIZEROVICH, GUSTAVO DARIO, US	[72] CHADEAYNE, ANDREW R., US	[72] BJORKHOLM, JOHAN, SE
[71] UBIQUA, INC., US	[71] CAAMTECH, INC., US	[72] BJORKHOLM, LARS, SE
[85] 2022-09-27	[85] 2023-07-06	[71] LIW INNOVATION AB, SE
[86] 2021-03-30 (PCT/US2021/024759)	[86] 2022-01-13 (PCT/US2022/012237)	[85] 2023-06-06
[87] (WO2021/202436)	[87] (WO2022/155284)	[86] 2021-12-16 (PCT/SE2021/051268)
[30] US (63/001,840) 2020-03-30	[30] US (63/137,378) 2021-01-14	[87] (WO2022/132018)
[30] US (17/216,600) 2021-03-29		[30] SE (2051472-5) 2020-12-16
	[21] <b>3,204,422</b> [13] A1	[21] <b>3,204,460</b> [13] A1
	[51] <b>Int.Cl. B05B 11/02 (2006.01)</b>	[51] <b>Int.Cl. H04W 52/14 (2009.01)</b>
	[25] EN	[25] EN
	[54] <b>DISPENSER</b>	[54] <b>POWER CONTROL PARAMETER DETERMINATION IN UPLINK CHANNEL REPETITION</b>
	[54] <b>DISTRIBUTEUR</b>	[54] <b>DETERMINATION DE PARAMETRE DE REGULATION DE PUISSANCE DANS UNE REPETITION DE CANAL DE LIAISON MONTANTE</b>
	[72] MATTER, JEROME A., US	[72] CIRIK, ALI CAGATAY, US
	[72] SPANG, JR., RONALD H., US	[72] DINAN, ESMEL HEJAZI, US
	[71] S. C. JOHNSON & SON, INC., US	[72] YI, YUNJUNG, US
	[85] 2023-07-06	[72] ZHOU, HUA, US
	[86] 2021-12-07 (PCT/US2021/062126)	[71] OFINNO, LLC, US
	[87] (WO2022/150134)	[85] 2023-06-06
	[30] US (17/143,584) 2021-01-07	[86] 2021-12-17 (PCT/US2021/064144)
		[87] (WO2022/133277)
		[30] US (63/127,003) 2020-12-17
[21] <b>3,204,330</b> [13] A1	[21] <b>3,204,440</b> [13] A1	
[51] <b>Int.Cl. A62C 99/00 (2010.01) B08B 3/08 (2006.01) B08B 9/08 (2006.01) B08B 9/093 (2006.01) B65D 90/44 (2006.01) B65D 90/48 (2006.01)</b>	[51] <b>Int.Cl. B66C 23/28 (2006.01) F16B 7/04 (2006.01)</b>	
[25] EN	[25] EN	
[54] <b>SYSTEMS, METHODS AND APPARATUS FOR SAFE LAUNCH AND RECOVERY OF AN INSPECTION VEHICLE</b>	[54] <b>A CONNECTING DEVICE FOR SECURING TWO BEAMS TO EACH OTHER, A METHOD FOR USING THE CONNECTING DEVICE, AND TOWER INCLUDING THE CONNECTING DEVICE</b>	
[54] <b>SYSTEMES, PROCÉDES ET APPAREIL POUR LE LANCEMENT ET LA RECUPERATION SECURISES D'UN VEHICULE D'INSPECTION</b>	[54] <b>DISPOSITIF DE LIAISON POUR FIXER DEUX POUTRES ENTRE ELLES, PROCÉDE D'UTILISATION DU DISPOSITIF DE LIAISON ET TOUR COMPRENANT LE DISPOSITIF DE LIAISON</b>	
[72] VAGANAY, JEROME, US	[72] STRANDBERG, MICHAEL, SE	
[72] O'HALLORAN, WILLIAM, US	[71] SKYREX AB, SE	
[72] LEVITT, ERIC, US	[85] 2023-07-06	
[71] SQUARE ROBOT, INC., US	[86] 2022-01-26 (PCT/EP2022/051772)	
[85] 2023-07-06	[87] (WO2022/199905)	
[86] 2021-04-02 (PCT/US2021/025540)	[30] EP (21165262.3) 2021-03-26	
[87] (WO2021/207019)		
[30] US (63/005,830) 2020-04-06		
[30] US (63/120,778) 2020-12-03		

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[21] **3,204,462**  
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01) A61K 48/00 (2006.01) A61P 7/04 (2006.01)**

[25] EN

[54] **IMPROVED PHARMACEUTICAL COMPOSITIONS CONTAINING ADENO-ASSOCIATED VIRAL VECTOR**

[54] **COMPOSITIONS PHARMACEUTIQUES AMELIOREES CONTENANT UN VECTEUR DE VIRUS ADENO-ASSOCIE**

[72] CONNER, JESSICA EILEEN, US  
[72] CRAWFORD, LINDSEY ANNE, US  
[72] DAMITZ, ROBERT, US  
[72] DAVIS, BRENDAN MICHAEL, US  
[72] HODGE, CODY MICHAEL, US  
[72] KIMMEL II, MICHAEL LELAND, US  
[72] QURESHI WILLARD, TIHAMI, US  
[72] RAMSEY, PHILLIP, US  
[72] THORNE, DANIEL JOSEPH, US  
[72] YOUNG, ANTHONY LEE, US  
[71] SANGAMO THERAPEUTICS, INC., US  
[71] PFIZER INC., US  
[85] 2023-06-06  
[86] 2021-12-17 (PCT/US2021/064222)  
[87] (WO2022/133324)  
[30] US (63/127,826) 2020-12-18

[21] **3,204,463**  
[13] A1

[51] **Int.Cl. B31B 50/74 (2017.01) B65D 5/02 (2006.01)**

[25] EN

[54] **END FLAP ENGAGEMENT ASSEMBLY FOR ERECTING CARTONS AND RELATED SYSTEMS AND METHODS**

[54] **ENSEMBLE DE MISE EN PRISE DE FERMETURES-RABATS POUR MONTER DES CARTONS ET SYSTEMES ET PROCEDES ASSOCIES**

[72] SCHROEDER, DEREK, US  
[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US  
[85] 2023-06-06  
[86] 2021-12-21 (PCT/US2021/064502)  
[87] (WO2022/140320)  
[30] US (63/129,060) 2020-12-22

[21] **3,204,465**  
[13] A1

[51] **Int.Cl. E21B 43/18 (2006.01) E21B 43/20 (2006.01)**

[25] EN

[54] **ARTIFICIAL RAIN TO ENHANCE HYDROCARBON RECOVERY**

[54] **PLUIE ARTIFICIELLE POUR AMELIORER L'EXTRACTION D'HYDROCARBURES**

[72] AL-OTAIBI, MOHAMMED BADRI, SA  
[72] CHA, DONG KYU, SA  
[72] AL-YOUSEF, ALI ABDALLAH, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2023-06-06  
[86] 2022-01-04 (PCT/US2022/011155)  
[87] (WO2022/147549)  
[30] US (17/140,200) 2021-01-04

[21] **3,204,466**  
[13] A1

[51] **Int.Cl. G01V 11/00 (2006.01) E21B 47/002 (2012.01) G06T 7/00 (2017.01)**

[25] EN

[54] **GENERATING SYNTHETIC GEOLOGICAL FORMATION IMAGES BASED ON ROCK FRAGMENT IMAGES**

[54] **GENERATION D'IMAGES DE FORMATIONS GEOLOGIQUES SYNTHETIQUES A PARTIR D'IMAGES DE FRAGMENTS DE ROCHE**

[72] ABUALI, MAHDI A., SA  
[72] MEZGHANI, MOKHLES MUSTAPHA, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2023-06-06  
[86] 2022-01-04 (PCT/US2022/011159)  
[87] (WO2022/147552)  
[30] US (63/133,518) 2021-01-04  
[30] US (17/516,302) 2021-11-01

[21] **3,204,467**  
[13] A1

[51] **Int.Cl. A61F 2/28 (2006.01)**

[25] EN

[54] **REVERSE SHOULDER PROSTHESIS AND RELATED METHODS**

[54] **PROTHESE D'EPAULE INVERSEE ET METHODES ASSOCIEES**

[72] ORBAY, JORGE, US  
[72] SIXTO, ROBERT, US  
[72] RUBIO, FRANCISCO, US  
[71] SKELETAL DYNAMICS, INC., US  
[85] 2023-06-06  
[86] 2022-01-27 (PCT/US2022/070381)  
[87] (WO2022/165499)  
[30] US (63/142,344) 2021-01-27

[21] **3,204,469**  
[13] A1

[51] **Int.Cl. A47G 19/22 (2006.01) A45F 3/16 (2006.01) B65D 39/08 (2006.01) B65D 43/02 (2006.01) B65D 47/06 (2006.01) B65D 47/20 (2006.01)**

[25] EN

[54] **A DRINKS CONTAINER RECIPIENT A BOISSON**

[72] KEARNEY, MICHAEL, AU  
[72] WALL, ALEXANDER, AU  
[72] PRICE, REID, AU  
[71] AWL IN IP PTY LTD, AU  
[85] 2023-06-07  
[86] 2021-12-14 (PCT/AU2021/051490)  
[87] (WO2022/126182)  
[30] AU (2020904654) 2020-12-14  
[30] AU (2021107447) 2021-08-25

[21] **3,204,470**  
[13] A1

[51] **Int.Cl. H04N 21/218 (2011.01) H04N 21/431 (2011.01) H04N 13/117 (2018.01)**

[25] EN

[54] **CHANGING VIDEO TRACKS IN IMMERSIVE VIDEOS**

[54] **CHANGEMENT DE PISTES VIDEO DANS DES VIDEOS IMMERSIVES**

[72] KROON, BART, NL  
[72] VAN GEEST, BARTOLOMEUS WILHELMUS DAMIANUS, NL  
[71] KONINKLIJKE PHILIPS N.V., NL  
[85] 2023-06-07  
[86] 2021-12-03 (PCT/EP2021/084150)  
[87] (WO2022/122580)  
[30] EP (20213300.5) 2020-12-11



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[21] **3,204,472**  
[13] A1

[51] **Int.Cl. B27K 3/52 (2006.01) C09K 21/04 (2006.01) C09K 21/12 (2006.01)**

[25] EN

[54] **NON-HALOGEN FIRE-RETARDANT COMPOSITION AND USE OF SAID COMPOSITION FOR DIRECT AND INDIRECT FIRE PROTECTION LAYERS ON SUBSTRATES**

[54] **COMPOSITION IGNIFUGE NON HALOGENEE ET UTILISATION DE LADITE COMPOSITION POUR DES COUCHES DE PROTECTION CONTRE LE FEU DIRECTES ET INDIRECTES SUR DES SUBSTRATS**

[72] WIEHN, HELMUT, DE  
[72] DAESELEIRE, PIETER, BE  
[71] ECOCHEM INTERNATIONAL NV, BE

[85] 2023-06-07  
[86] 2021-12-08 (PCT/EP2021/084728)  
[87] (WO2022/122795)  
[30] BE (BE2020/5898) 2020-12-09

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[21] **3,204,473**  
[13] A1

[51] **Int.Cl. B27K 3/52 (2006.01) C09K 21/04 (2006.01) C09K 21/12 (2006.01)**

[25] EN

[54] **USE OF NON-HALOGEN FIRE RETARDANT COMPOSITION FOR INDIRECT FIRE PROTECTION LAYERS ON SUBSTRATES**

[54] **UTILISATION D'UNE COMPOSITION IGNIFUGE NON HALOGENEE POUR DES COUCHES DE PROTECTION CONTRE LE FEU INDIRECTES SUR DES SUBSTRATS**

[72] WIEHN, HELMUT, DE  
[72] DAESELEIRE, PIETER, BE  
[72] RIEPERTINGER, MANFRED, DE  
[72] HERZOG, ANDREAS, AT  
[71] ECOCHEM INTERNATIONAL NV, BE

[71] FRITZ EGGER GMBH & CO. OG, AT

[85] 2023-06-07  
[86] 2021-12-08 (PCT/EP2021/084731)  
[87] (WO2022/122797)  
[30] BE (BE2020/5898) 2020-12-09  
[30] EP (21151444.3) 2021-01-13

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[21] **3,204,475**  
[13] A1

[51] **Int.Cl. A61J 11/00 (2006.01) A61J 11/02 (2006.01)**

[25] EN

[54] **TEAT AND DRINKING CONTAINER HAVING THE TEAT**

[54] **TETINE ET RECIPIENT POUR BOISSON EQUIPE DE LADITE TETINE**

[72] GOSENSHUIS, DAAN HENDRIK, NL  
[72] KAMPING, WIECHER FERDINAND, NL

[72] DE VRIES, SIETSE, NL  
[72] BERNTSEN, LUC, NL  
[71] KONINKLIJKE PHILIPS N.V., NL

[85] 2023-06-07  
[86] 2021-12-09 (PCT/EP2021/084922)  
[87] (WO2022/122879)  
[30] EP (20213365.8) 2020-12-11

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[21] **3,204,477**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01) H04W 40/00 (2009.01) H04L 45/02 (2022.01)**

[25] EN

[54] **TEMPOROSPATIAL, SOFTWARE-DEFINED MARITIME NETWORK USING HIGH-ALTITUDE PLATFORMS**

[54] **RESEAU MARITIME DEFINI PAR LOGICIEL TEMPOROSPATIAL UTILISANT DES PLATEFORMES A HAUTE ALTITUDE**

[72] BARRITT, BRIAN, US  
[72] ANAHTH, SHARATH, US  
[71] AALYRIA TECHNOLOGIES, INC., US

[85] 2023-06-07  
[86] 2021-10-22 (PCT/US2021/056144)  
[87] (WO2022/150086)  
[30] US (17/146,107) 2021-01-11

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[21] **3,204,479**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/417 (2006.01) A61K 31/472 (2006.01) A61K 31/5575 (2006.01) A61K 47/10 (2017.01) A61P 15/10 (2006.01)**

[25] EN

[54] **TRANSDERMAL TREATMENT FOR ERECTILE DYSFUNCTION**

[54] **TRAITEMENT TRANSDERMIQUE POUR LE DYSFONCTIONNEMENT ERECTILE**

[72] DANZI, MICHAEL, US  
[72] EVANS, CHARLES, US  
[72] MCCABE, ORLA, US  
[71] STANDARD INTERNATIONAL GROUP HOLDINGS, LP, US

[85] 2023-06-07  
[86] 2021-10-22 (PCT/US2021/056364)  
[87] (WO2022/087496)  
[30] US (63/104,158) 2020-10-22

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[21] **3,204,480**  
[13] A1

[51] **Int.Cl. H04L 45/02 (2022.01) H04W 40/38 (2009.01) H04L 45/00 (2022.01) H04L 45/28 (2022.01) H04L 45/42 (2022.01)**

[25] EN

[54] **HYBRID SOFTWARE-DEFINED NETWORKING AND MOBILE AD-HOC NETWORKING ROUTING IN MESH NETWORKS**

[54] **MISE EN RESEAU HYBRIDE DEFINIE PAR LOGICIEL ET ROUTAGE DE MISE EN RESEAU AD HOC MOBILE DANS LES RESEAUX MAILLES**

[72] BARRITT, BRIAN, US  
[72] COOLIDGE, IAN, US  
[72] MANDLE, DAVID, US  
[71] AALYRIA TECHNOLOGIES, INC., US

[85] 2023-06-07  
[86] 2021-12-03 (PCT/US2021/061749)  
[87] (WO2022/146618)  
[30] US (17/138,019) 2020-12-30

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[21] **3,204,489**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) C07K 16/30 (2006.01) C07K 16/32 (2006.01)**

[25] EN

[54] **COMBINATION THERAPIES FOR TREATMENT OF HER2 CANCER**

[54] **POLY THERAPIES POUR LE TRAITEMENT DU CANCER HER2**

[72] SCHUTZMAN, JENNIFER LEE, US

[72] SONG, CHUNYAN, US

[72] SONG, KYUNG WHA, US

[72] THANOPOULOU, EIRINI, GB

[72] WARBURTON, SIMON PETER, GB

[72] DEY, ANWESHA, US

[72] JOO, STEPHANIE ROYER, US

[71] GENENTECH, INC., US

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

[85] 2023-06-07

[86] 2021-12-07 (PCT/US2021/062101)

[87] (WO2022/125483)

[30] US (63/124,495) 2020-12-11

[30] US (63/161,153) 2021-03-15

[30] US (63/209,302) 2021-06-10

[21] **3,204,491**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/496 (2006.01) A61P 9/10 (2006.01)**

[25] EN

[54] **SUBSTITUTED PYRAZOLO PIPERIDINE CARBOXYLIC ACIDS**

[54] **ACIDES PYRAZOLO PIPERIDINE CARBOXYLIQUES SUBSTITUES**

[72] VAKALOPOULOS, ALEXANDROS, DE

[72] COLLIN-KROPELIN, MARIE-PIERRE, DE

[72] ORTEGA HERNANDEZ, NURIA, DE

[72] DIESKAU, ANDRE, DE

[72] BOULTADAKIS-ARAPINIS, MELISSA, DE

[72] CANDISH, LISA, DE

[72] STELLFELD, TIMO, DE

[72] MATHAR, ILKA, DE

[72] HOFMEISTER, LUCAS HUDSON, DE

[72] SANDNER, PETER, DE

[72] WUNDER, FRANK, DE

[72] DIETZ, LISA, DE

[72] WEBSTER, ROBERT ALAN, DE

[72] SCHMECK, CARSTEN, DE

[72] MONDRITZKI, THOMAS, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2023-06-07

[86] 2021-12-09 (PCT/EP2021/084980)

[87] (WO2022/122910)

[30] EP (20213016.7) 2020-12-10

[21] **3,204,494**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61K 31/496 (2006.01) A61K 31/506 (2006.01) A61P 7/00 (2006.01) A61P 9/04 (2006.01) A61P 9/12 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01) A61P 17/02 (2006.01) A61P 25/28 (2006.01) A61P 37/06 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01)**

[25] EN

[54] **SUBSTITUTED PYRAZOLO PIPERIDINE CARBOXYLIC ACIDS**

[54] **ACIDES PYRAZOLO PIPERIDINE CARBOXYLIQUES SUBSTITUES**

[72] VAKALOPOULOS, ALEXANDROS, DE

[72] COLLIN-KROPELIN, MARIE-PIERRE, DE

[72] ORTEGA HERNANDEZ, NURIA, DE

[72] DIESKAU, ANDRE, DE

[72] BOULTADAKIS-ARAPINIS, MELISSA, DE

[72] CANDISH, LISA, DE

[72] STELLFELD, TIMO, DE

[72] MATHAR, ILKA, DE

[72] HOFMEISTER, LUCAS HUDSON, DE

[72] SANDNER, PETER, DE

[72] WUNDER, FRANK, DE

[72] DIETZ, LISA, DE

[72] WEBSTER, ROBERT ALAN, DE

[72] SCHMECK, CARSTEN, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2023-06-07

[86] 2021-12-09 (PCT/EP2021/084986)

[87] (WO2022/122913)

[30] EP (20213018.3) 2020-12-10

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[21] **3,204,495**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/496 (2006.01) A61P 7/00 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01)**

[25] EN

[54] **SUBSTITUTED PYRAZOLO PIPERIDINE CARBOXYLIC ACIDS**

[54] **ACIDES PYRAZOLO PIPERIDINE CARBOXYLIQUES SUBSTITUES**

[72] VAKALOPOULOS, ALEXANDROS, DE

[72] COLLIN-KROPELIN, MARIE-PIERRE, DE

[72] ORTEGA HERNANDEZ, NURIA, DE

[72] DIESKAU, ANDRE, DE

[72] BOULTADAKIS ARAPINIS, MELISSA, DE

[72] CANDISH, LISA, DE

[72] STELLFELD, TIMO, DE

[72] MATHAR, ILKA, DE

[72] HOFMEISTER, LUCAS HUDSON, DE

[72] SANDNER, PETER, DE

[72] WUNDER, FRANK, DE

[72] DIETZ, LISA, DE

[72] WEBSTER, ROBERT ALAN, DE

[72] SCHMECK, CARSTEN, DE

[72] MONDRITZKI, THOMAS, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2023-06-07

[86] 2021-12-09 (PCT/EP2021/084987)

[87] (WO2022/122914)

[30] EP (20213020.9) 2020-12-10

[21] **3,204,497**  
[13] A1

[51] **Int.Cl. A61K 31/405 (2006.01) C12N 15/113 (2010.01) A61K 9/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS UTILIZING IDO1-DEPENDENT VASCULARIZING CELLS FOR THE TREATMENT OF PATHOLOGICAL CONDITIONS INVOLVING NEOVASCULARIZATION**

[54] **PROCEDES ET COMPOSITIONS UTILISANT DES CELLULES DE VASCULARISATION DEPENDANTES DE L'IDO1 POUR LE TRAITEMENT D'ETATS PATHOLOGIQUES IMPLIQUANT UNE NEOVASCULARISATION**

[72] MULLER, ALEXANDER J., US

[72] MONDAL, ARPITA, US

[72] DEY, SOUVIK, US

[72] TOMLINSON, SIMON, US

[72] LAURY-KLEINTOP, LISA, US

[71] LANKENAU INSTITUTE FOR MEDICAL RESEARCH, US

[71] DUET THERAPEUTICS, INC., US

[85] 2023-06-07

[86] 2021-12-07 (PCT/US2021/062217)

[87] (WO2022/125553)

[30] US (63/122,121) 2020-12-07

[21] **3,204,498**  
[13] A1

[51] **Int.Cl. H04N 21/2187 (2011.01) H04N 21/262 (2011.01) H04N 21/433 (2011.01) H04N 21/472 (2011.01) H04N 21/845 (2011.01) H04N 21/8549 (2011.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DYNAMICALLY SYNCING FROM TIME-SHIFTED FRAME TO LIVE STREAM OF CONTENT**

[54] **SYSTEMES ET PROCEDES DE SYNCHRONISATION DYNAMIQUE POUR REPASSER D'UNE IMAGE EN DECALAGE TEMPOREL A UNE DIFFUSION EN DIRECT D'UN CONTENU**

[72] GUPTA, VAIBHAV, IN

[72] GUPTA, ASHISH, IN

[72] DHIMAN, ROHIT, IN

[71] ROVI GUIDES, INC., US

[85] 2023-06-07

[86] 2021-12-07 (PCT/US2021/062226)

[87] (WO2022/125559)

[30] US (17/114,027) 2020-12-07

[30] US (17/114,038) 2020-12-07

[30] US (17/114,045) 2020-12-07

[21] **3,204,499**  
[13] A1

[51] **Int.Cl. B25J 9/10 (2006.01) B25J 9/12 (2006.01)**

[25] EN

[54] **CABLE DRIVEN PARALLEL MANIPULATOR CONTROL MECHANISM AND RELATED SYSTEMS AND METHODS**

[54] **MECANISME DE COMMANDE DE MANIPULATEUR PARALLELE ENTRAINE PAR CABLES, ET SYSTEMES ET PROCEDES ASSOCIES**

[72] TAVALLAEI, MOHAMMAD ALI, CA

[72] QUADRI, AMAAR, CA

[72] WRIGHT, GRAHAM A., CA

[72] SEWANI, ALYKHAN, CA

[72] ZHOU, JAMES JIEWEN, CA

[72] MAGNIN, CHRISTOPHER J., CA

[71] MAGELLAN BIOMEDICAL INC., CA

[85] 2023-06-07

[86] 2021-12-08 (PCT/US2021/062391)

[87] (WO2022/125655)

[30] US (63/123,981) 2020-12-10

[21] **3,204,544**  
[13] A1

[51] **Int.Cl. E04G 1/12 (2006.01) E04G 1/15 (2006.01) E04G 5/02 (2006.01) E04G 5/16 (2006.01) E04G 7/14 (2006.01) E04G 7/20 (2006.01) E04G 7/26 (2006.01) E04G 21/32 (2006.01) E04G 25/00 (2006.01)**

[25] EN

[54] **A LAPBOARD FOR A SAFETY DECK**

[54] **PLANCHETTE DESTINEE A UN PONT DE SECURITE**

[72] MCCARTHY, LUIS, GB

[71] J. MAC SAFETY SYSTEMS LIMITED, GB

[85] 2023-07-07

[86] 2021-12-01 (PCT/GB2021/053132)

[87] (WO2022/118012)

[30] GB (2018914.8) 2020-12-01

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[21] **3,204,564**  
[13] A1

[51] **Int.Cl. F28C 1/00 (2006.01)**  
[25] EN  
[54] **HEAT RECLAMATION SYSTEM WITHIN A COOLING TOWER FOR A MANUFACTURING FACILITY**  
[54] **SYSTEME DE RECUPERATION DE LA CHALEUR DANS UNE TOUR DE REFROIDISSEMENT POUR UNE USINE DE FABRICATION**  
[72] JONES, WILLIAM, US  
[71] JONES, WILLIAM, US  
[85] 2023-07-07  
[86] 2021-09-15 (PCT/IB2021/058410)  
[87] (WO2022/064326)  
[30] US (63/082,863) 2020-09-24  
[30] US (63/089,133) 2020-10-08

[21] **3,204,579**  
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) A61P 35/04 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **COMBINATION THERAPY WITH FOR46 FOR CANCER**  
[54] **POLYTHERAPIE COMPRENANT LE FOR46 CONTRE LE CANCER**  
[72] LIU, BIN, US  
[72] DORR, ANDREW, US  
[72] LICHTER, JAY, US  
[72] NASOFF, MARC, US  
[72] POST, LEONARD, US  
[71] FORTIS THERAPEUTICS, INC., US  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[85] 2023-07-07  
[86] 2022-01-06 (PCT/US2022/011497)  
[87] (WO2022/150514)  
[30] US (63/134,896) 2021-01-07

[21] **3,204,580**  
[13] A1

[51] **Int.Cl. H01R 13/00 (2006.01) H01R 33/00 (2006.01) H01R 35/00 (2006.01)**  
[25] EN  
[54] **QUICK CONNECT DEVICE WITH WIRE COVER**  
[54] **DISPOSITIF D'ACCOUPLLEMENT RAPIDE AVEC ELEMENT DE RECOUVREMENT DE FIL**  
[72] KOHEN, RAN ROLAND, US  
[71] SKYX PLATFORMS CORP., US  
[85] 2023-07-07  
[86] 2022-01-07 (PCT/US2022/011701)  
[87] (WO2022/150645)  
[30] US (63/134,760) 2021-01-07

[21] **3,204,582**  
[13] A1

[51] **Int.Cl. C25C 3/12 (2006.01)**  
[25] EN  
[54] **IMPROVED BINDER PITCH FOR USE IN CARBON COMPOSITE MATERIALS**  
[54] **BRAI LIANT AMELIORE DESTINE A ETRE UTILISE DANS DES MATERIAUX COMPOSITES A BASE DE CARBONE**  
[72] UNSWORTH, JOHN FRANCIS, GB  
[72] ADAMS, JERAMIE, GB  
[72] BASSHAM, SETH TAYLOR, GB  
[72] PASPEK, STEPHEN CARL, GB  
[71] BAIG, KAHLID, GB  
[71] ARQ IP LIMITED, GB  
[85] 2023-07-10  
[86] 2022-01-26 (PCT/US2022/013865)  
[87] (WO2022/164877)  
[30] US (63/141,644) 2021-01-26

[21] **3,204,583**  
[13] A1

[51] **Int.Cl. A61N 1/05 (2006.01) A61B 5/29 (2021.01) A61B 5/293 (2021.01) A61N 1/36 (2006.01)**  
[25] EN  
[54] **DEVICE FOR INSERTION OF MICROFILAMENTS IN SOFT TISSUE**  
[54] **DISPOSITIF D'INSERTION DE MICROFILAMENTS DANS UN TISSU MOU**  
[72] SHOUENBORG, JENS, SE  
[71] NEURONANO AB, SE  
[85] 2023-06-07  
[86] 2021-12-10 (PCT/SE2021/000012)  
[87] (WO2022/124957)  
[30] SE (2030357-4) 2020-12-10

[21] **3,204,584**  
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 9/19 (2006.01) A61K 38/20 (2006.01) A61K 38/45 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) A61P 35/00 (2006.01) C07K 19/00 (2006.01)**  
[25] EN  
[54] **IMPROVED LYOPHILIZED FORMULATION**  
[54] **FORMULATION LYOPHILISEE AMELIOREE**  
[72] CONNOLLY, JOAN, US  
[72] ERICKSON, FREDERICK, US  
[72] KAMAT, MADHAV, US  
[72] WASSERMAN, JENNIFER, US  
[72] ZABRECKY, JAMES, US  
[71] STEMLINE THERAPEUTICS, INC., US  
[85] 2023-06-07  
[86] 2021-12-09 (PCT/US2021/062631)  
[87] (WO2022/125788)  
[30] US (63/123,589) 2020-12-10

[21] **3,204,585**  
[13] A1

[51] **Int.Cl. A61M 25/06 (2006.01) A61M 99/00 (2012.01) A61M 39/02 (2006.01) A61M 39/04 (2006.01)**  
[25] EN  
[54] **SQUEEZABLE SUBCUTANEOUS PORT**  
[54] **ORIFICE SOUS-CUTANE COMPRESSIBLE**  
[72] TAL, MICHAEL GABRIEL, US  
[72] LIVNE, RON, US  
[72] EILON, OMER, US  
[72] WINSHTEN, RONNY, US  
[71] PORTAL ACCESS, INC., US  
[85] 2023-06-07  
[86] 2021-12-08 (PCT/US2021/062403)  
[87] (WO2022/125661)  
[30] US (63/123,028) 2020-12-09

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[21] **3,204,586**  
[13] A1

[51] **Int.Cl. B67D 1/00 (2006.01) B67D 7/00 (2010.01) B67D 7/02 (2010.01) A47G 19/18 (2006.01) B67D 1/06 (2006.01) B67D 1/14 (2006.01)**

[25] EN

[54] **TOUCHLESS FOOT PADDLE OPERATED DISPENSERS**

[54] **DISTRIBUTEURS ACTIONNES PAR PEDALE SANS CONTACT**

[72] KAMBLE, RAHUL SADASHIV, IN

[72] GULATI, AMANDEEP SINGH, IN

[72] ARORA, VIPIN, IN

[71] PEPSICO, INC., US

[85] 2023-06-07

[86] 2021-12-08 (PCT/US2021/062430)

[87] (WO2022/132534)

[30] IN (202041055346) 2020-12-19

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[21] **3,204,589**  
[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01) G16H 50/50 (2018.01) A61B 5/00 (2006.01) A61B 5/11 (2006.01) A61M 21/00 (2006.01) F21S 8/00 (2006.01)**

[25] EN

[54] **MODELING-GUIDED LIGHT THERAPY FOR ADJUSTING CIRCADIAN RHYTHM**

[54] **LUMINOTHERAPIE GUIDEE PAR MODELISATION POUR AJUSTER LE RYTHME CIRCADIEEN**

[72] LUO, BIQUAN, US

[71] LUMOSTECH, INC., US

[85] 2023-06-07

[86] 2021-12-10 (PCT/US2021/062810)

[87] (WO2022/125899)

[30] US (63/124,096) 2020-12-11

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[21] **3,204,590**  
[13] A1

[51] **Int.Cl. H05B 6/80 (2006.01) B09B 3/00 (2022.01) F23G 5/00 (2006.01) F26B 3/347 (2006.01)**

[25] EN

[54] **ELECTROMAGNETIC ENERGY SYSTEM FOR THE BREAKDOWN AND DESTRUCTION OF ORGANIC WASTE**

[54] **SYSTEME D'ENERGIE ELECTROMAGNETIQUE POUR LA DECOMPOSITION ET LA DESTRUCTION DE DECHETS ORGANIQUES**

[72] FARNEMAN, JOHN OTIS, US

[71] FARNEMAN, JOHN OTIS, US

[85] 2023-06-07

[86] 2021-12-10 (PCT/US2021/062863)

[87] (WO2022/125934)

[30] US (17/118,580) 2020-12-10

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[21] **3,204,591**  
[13] A1

[51] **Int.Cl. A61K 6/804 (2020.01) A61K 6/813 (2020.01) A61K 6/818 (2020.01) A61K 6/822 (2020.01) A61C 13/00 (2006.01) A61C 13/08 (2006.01) A61C 13/083 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A CERAMIC MULTILAYER BLANK**

[54] **PROCEDE DE FABRICATION D'UNE EBAUCHE CERAMIQUE MULTICOUCHE**

[72] FECHER, STEFAN, DE

[72] VOLKL, LOTHAR, DE

[72] AMMON, DANIEL, US

[71] DENTSPLY SIRONA INC., US

[85] 2023-06-07

[86] 2021-12-13 (PCT/US2021/063118)

[87] (WO2022/132647)

[30] US (63/125,456) 2020-12-15

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[21] **3,204,592**  
[13] A1

[51] **Int.Cl. G05B 11/01 (2006.01) G01D 4/02 (2006.01) G01R 22/00 (2006.01) G06F 1/30 (2006.01)**

[25] EN

[54] **SECURE MESSAGING FOR OUTAGE EVENTS**

[54] **MESSAGERIE SECURISEE POUR EVENEMENTS DE COUPURE**

[72] SINGH, KALVINDER PAL, US

[72] JOHNSON, DARIN BYRON, US

[72] KISS, ZOLTAN PETER, US

[71] ITRON, INC., US

[85] 2023-06-07

[86] 2021-12-13 (PCT/US2021/063131)

[87] (WO2022/132653)

[30] US (17/124,428) 2020-12-16

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[21] **3,204,594**  
[13] A1

[51] **Int.Cl. C12N 5/00 (2006.01) C07K 14/76 (2006.01)**

[25] EN

[54] **CHEMICALLY DEFINED SERUM ALBUMIN SUBSTITUTES**

[54] **SUBSTITUTS D'ALBUMINE SERIQUE CHIMIQUEMENT DEFINIS**

[72] JESSEE, JOEL, US

[72] KUNINGER, DAVID, US

[72] SHIN, SOOJUNG, US

[71] LIFE TECHNOLOGIES CORPORATION, US

[85] 2023-06-07

[86] 2021-12-15 (PCT/US2021/063618)

[87] (WO2022/132974)

[30] US (63/125,619) 2020-12-15

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[21] **3,204,595**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/454 (2006.01) A61P 9/12 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **SUBSTITUTED PYRAZOLYL PIPERIDINE CARBOXYLIC ACIDS**

[54] **ACIDES PYRAZOLYLPIPERIDINE CARBOXYLIQUES SUBSTITUES**

[72] VAKALOPOULOS, ALEXANDROS, DE

[72] COLLIN-KROPELIN, MARIE-PIERRE, DE

[72] ORTEGA HERNANDEZ, NURIA, DE

[72] DIESKAU, ANDRE, DE

[72] BOULTADAKIS-ARAPINIS, MELISSA, DE

[72] CANDISH, LISA, DE

[72] STELLFELD, TIMO, DE

[72] MATHAR, ILKA, DE

[72] HOFMEISTER, LUCAS HUDSON, DE

[72] SANDNER, PETER, DE

[72] WUNDER, FRANK, DE

[72] DIETZ, LISA, DE

[72] WEBSTER, ROBERT ALAN, DE

[72] SCHMECK, CARSTEN, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2023-06-07

[86] 2021-12-09 (PCT/EP2021/084989)

[87] (WO2022/122916)

[30] EP (20213032.4) 2020-12-10

[21] **3,204,596**  
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 31/4155 (2006.01) A61K 31/497 (2006.01) A61K 45/06 (2006.01) A61P 27/06 (2006.01)**

[25] EN

[54] **THE USE OF SGC ACTIVATORS FOR THE TREATMENT OF OPHTHALMOLOGIC DISEASES**

[54] **UTILISATION D'ACTIVATEURS DE SGC POUR LE TRAITEMENT DE MALADIES OPHTHALMOLOGIQUES**

[72] SCHUBERT, WILLIAM ERNST, DE

[72] NASSAR, KHALED, DE

[72] SANDNER, PETER, DE

[72] TERJUNG, CARSTEN, DE

[72] DUH, ELIA, US

[72] CHO, HONGKWAN, US

[72] XU, ZHENHUA, US

[72] WU, LIJUAN, US

[72] ZHOU, LINGLI, US

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2023-06-07

[86] 2021-12-09 (PCT/EP2021/084991)

[87] (WO2022/122917)

[30] US (63/123,787) 2020-12-10

[21] **3,204,597**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 47/18 (2017.01)**

[25] EN

[54] **INHALABLE POWDER COMPRISING VORICONAZOLE IN CRYSTALLINE FORM**

[54] **POUDRE INHALABLE COMPRENANT DU VORICONAZOLE SOUS FORME CRISTALLINE**

[72] ZANELLOTTI, LAURA, IT

[72] MAGGI, LORETTA, IT

[72] FAIELLA, GIANLUIGI, IT

[72] MAGI, NADIA, IT

[72] NICOSIA, VALENTINA, IT

[72] CASTEGINI, FRANCO, IT

[72] CAPONETTI, GIOVANNI, IT

[71] ZAMBON S.P.A., IT

[85] 2023-06-07

[86] 2021-12-10 (PCT/EP2021/085236)

[87] (WO2022/123029)

[30] IT (102020000030443) 2020-12-10

[21] **3,204,598**  
[13] A1

[51] **Int.Cl. A01N 43/82 (2006.01) A01N 43/84 (2006.01) C07D 413/10 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **FUNGICIDAL OXADIAZOLES AND THEIR MIXTURES**

[54] **OXADIAZOLES FONGICIDES ET LEURS MELANGES**

[72] PASTERIS, ROBERT JAMES, US

[72] CHITTABOINA, SRINIVAS, US

[72] MCMAHON, TRAVIS CHANDLER, US

[72] KAMIREDDY, BALREDDY, US

[72] REDDY, RAVISEKHARA P., US

[72] VEGA-JIMENEZ, BYRON, US

[72] UPPALAPATI, SRINIVASA RAO, US

[71] FMC CORPORATION, US

[85] 2023-06-07

[86] 2021-12-16 (PCT/US2021/063852)

[87] (WO2022/133114)

[30] US (63/127,068) 2020-12-17

[21] **3,204,600**  
[13] A1

[51] **Int.Cl. B60C 11/12 (2006.01)**

[25] EN

[54] **TYRE TREAD WITH IMPROVED SIPE ON THREE LEVELS AND TYRE**

[54] **BANDE DE ROULEMENT DE PNEUMATIQUE A LAMELLE AMELIOREE SUR TROIS NIVEAUX ET PNEUMATIQUE**

[72] RODRIQUEZ, GIUSEPPE, IT

[72] AGORETTI, PASQUALE, IT

[72] TIRONE, ANTONIO, IT

[71] BRIDGESTONE EUROPE NV/SA, BE

[85] 2023-06-07

[86] 2021-12-15 (PCT/EP2021/085978)

[87] (WO2022/129218)

[30] IT (102020000031364) 2020-12-18

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[21] **3,204,601**  
[13] A1

[51] **Int.Cl. A61F 13/15 (2006.01) A61F 13/20 (2006.01) B29C 65/18 (2006.01)**  
[25] EN  
[54] **METHOD FOR WINDING PREFORMS**  
[54] **PROCEDE D'ENROULEMENT DE PREFORMES**  
[72] SCHULER, SAMUEL, CH  
[72] AUER, MARCO, CH  
[71] RUGGLI PROJECTS AG, CH  
[85] 2023-06-07  
[86] 2022-04-08 (PCT/EP2022/059526)  
[87] (WO2022/223330)  
[30] CH (00426/21) 2021-04-21

[21] **3,204,603**  
[13] A1

[51] **Int.Cl. C07D 491/14 (2006.01) C07D 498/14 (2006.01)**  
[25] EN  
[54] **IMIDAZO[1,2-B]PYRIDAZINE BASED TRICYCLIC COMPOUNDS AS INHIBITORS OF HASPIN AND THERAPEUTIC USES THEREOF**  
[54] **COMPOSES TRICYCLIQUES A BASE D'IMIDAZO[1,2-B]PYRIDAZINE SERVANT D'INHIBITEURS DE HASPINE ET LEURS UTILISATIONS THERAPEUTIQUES**  
[72] PASTOR FERNANDEZ, JOAQUIN, ES  
[72] MARTINEZ GONZALEZ, SONIA, ES  
[72] BLANCO APARICIO, CARMEN, ES  
[72] GARCIA GARCIA, ANA BELEN, ES  
[72] RODRIGUEZ ARISTEGUI, SONSOLES, ES  
[72] GOMEZ DE LA OLIVA, CRISTINA ANA, ES  
[72] ALBARRAN SANTINO, MARIA ISABEL, ES  
[72] CEBRIA GOMEZ, ANTONIO, ES  
[72] MALUMBRES MARTINEZ, MARCOS, ES  
[71] FUNDACION DEL SECTOR PUBLICO ESTATAL CENTRO NACIONAL DE INVESTIGACIONES ONCOLOGICAS CARLOS III (F.S.P. CNIO), ES  
[85] 2023-07-10  
[86] 2022-03-23 (PCT/EP2022/057636)  
[87] (WO2022/200433)  
[30] EP (21382232.3) 2021-03-23

[21] **3,204,604**  
[13] A1

[51] **Int.Cl. C10G 3/00 (2006.01) B01J 8/18 (2006.01) B01J 8/24 (2006.01) C10G 1/08 (2006.01) C10G 11/18 (2006.01) C10G 69/04 (2006.01)**  
[25] EN  
[54] **FLUIDIZED BED REACTOR AND ASSOCIATED HYDROLYSIS PROCESSES**  
[54] **REACTEUR A LIT FLUIDISE ET PROCEDES D'HYDROLYSE ASSOCIES**  
[72] HUIZENGA, PIETER, NL  
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ BV, NL  
[85] 2023-06-07  
[86] 2021-12-17 (PCT/US2021/064050)  
[87] (WO2022/133224)  
[30] EP (20215260.9) 2020-12-18

[21] **3,204,606**  
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**  
[25] EN  
[54] **P27 SINGLE-NUCLEOTIDE POLYMORPHISM T2871099G AS A PREDICTOR OF THE BENEFIT OF ENDOCRINE THERAPY ALONE OR IN COMBINATION WITH CDK INHIBITORS IN BREAST CANCER**  
[54] **POLYMORPHISME MONONUCLEOTIDIQUE T2871099G EN TANT QUE PREDICTEUR DU BENEFICE D'UNE THERAPIE ENDOCRINE SEULE OU EN COMBINAISON AVEC DES INHIBITEURS DE CDK POUR LE CANCER DU SEIN**  
[72] QUINTELA FANDINO, MIGUEL ANGEL, ES  
[71] FUNDACION DEL SECTOR PUBLICO ESTATAL CENTRO NACIONAL DE INVESTIGACIONES ONCOLOGICAS CARLOS III (F.S.P. CNIO), ES  
[85] 2023-07-10  
[86] 2022-01-26 (PCT/EP2022/051700)  
[87] (WO2022/161984)  
[30] EP (21382061.6) 2021-01-27

[21] **3,204,607**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/107 (2006.01) A61M 37/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MEASURING EDEMA AT HOME AND MEASUREMENT PATTERN FOR USE THEREWITH**  
[54] **SYSTEME ET PROCEDE DE MESURE D'UN OEDEME A DOMICILE ET MODELE DE MESURE DESTINE A ETRE UTILISE AVEC CEUX-CI**  
[72] SLOAT, DANIEL L., US  
[72] SYSUN, LISA, US  
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US  
[85] 2023-06-07  
[86] 2021-12-23 (PCT/US2021/065035)  
[87] (WO2022/177636)  
[30] US (63/151,952) 2021-02-22

[21] **3,204,608**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/92 (2006.01)**  
[25] EN  
[54] **METHOD FOR DETERMINING WHETHER A SUBJECT IS AT RISK OF DEVELOPING A MUSCULOSKELETAL AND/OR CONNECTIVE TISSUE DISEASE**  
[54] **METHODE PERMETTANT DE DETERMINER SI UN SUJET PRESENTE UN RISQUE DE DEVELOPPER UNE MALADIE MUSCULO-SQUELETTIQUE OU UNE MALADIE DES TISSUS CONJONCTIFS**  
[72] JULKUNEN, HELI, FI  
[72] WURTZ, PETER, FI  
[71] NIGHTINGALE HEALTH OYJ, FI  
[85] 2023-06-07  
[86] 2021-12-16 (PCT/FI2021/050888)  
[87] (WO2022/129702)  
[30] FI (20206343) 2020-12-18

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[21] **3,204,609**  
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01)**  
[25] EN  
[54] **PSMA-TARGETING CONJUGATE AND USES THEREOF**  
[54] **CONJUGUE CIBLANT LE PSMA ET SES UTILISATIONS**  
[72] SAIDI, AMAL, FR  
[72] WONG, AMY, US  
[72] TORGUE, JULIEN, US  
[72] STALLONS, TANIA, US  
[71] ORANO MED, FR  
[85] 2023-07-10  
[86] 2022-01-17 (PCT/EP2022/050885)  
[87] (WO2022/157119)  
[30] EP (21305061.0) 2021-01-19

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[21] **3,204,610**  
[13] A1

[51] **Int.Cl. G06F 9/30 (2018.01)**  
[25] EN  
[54] **VECTOR CONVERT HEXADECIMAL FLOATING POINT TO SCALED DECIMAL INSTRUCTION**  
[54] **VECTEUR CONVERTISSANT UN POINT FLOTTANT HEXADECIMAL EN UNE INSTRUCTION DECIMALE MISE A L'ECHELLE**  
[72] SCHWARZ, ERIC, US  
[72] SCHELM, KERSTIN, DE  
[72] LEBER, PETRA, DE  
[72] MUELLER, SILVIA, DE  
[72] COPELAND, REID, CA  
[72] GUO, XIN, CA  
[72] LICHTENAU, CEDRIC, DE  
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US  
[85] 2023-07-10  
[86] 2022-02-18 (PCT/EP2022/054052)  
[87] (WO2022/179943)  
[30] US (17/186,443) 2021-02-26

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[21] **3,204,612**  
[13] A1

[51] **Int.Cl. A61B 3/16 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR REMOTE OPTICAL MONITORING OF INTRAOCULAR PRESSURE**  
[54] **PROCEDE ET DISPOSITIF DE SURVEILLANCE OPTIQUE A DISTANCE DE LA PRESSION INTRAOCULAIRE**  
[72] DANA, AYKUTLU, US  
[72] YAZICI, AHMET TAYLAN, US  
[72] AGAOGLU, SEVDA, US  
[72] KOMBAN, SAVAS, US  
[72] BADAY, MURAT, US  
[71] SMARTLENS, INC., US  
[85] 2023-07-10  
[86] 2022-02-22 (PCT/US2022/017224)  
[87] (WO2022/182629)  
[30] US (63/152,844) 2021-02-24

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[21] **3,204,613**  
[13] A1

[51] **Int.Cl. G06T 17/00 (2006.01) G06T 15/00 (2011.01)**  
[25] EN  
[54] **VOLUMETRIC VIDEO FROM AN IMAGE SOURCE**  
[54] **VIDEO VOLUMETRIQUE PROVENANT D'UNE SOURCE D'IMAGE**  
[72] KAGARLITSKY, VSEVOLOD, IL  
[72] KEINAN, SHIRLEY, IL  
[72] GREEN, AMIR, IL  
[72] BARUCH, YAIR, IL  
[72] LEV, ROI, US  
[72] BIRNBOIM, MICHAEL, IL  
[72] TAMIR, MICHAEL, IL  
[71] YOOM.COM LTD, IL  
[85] 2023-06-07  
[86] 2022-01-11 (PCT/IL2022/050046)  
[87] (WO2022/149148)  
[30] US (63/135,765) 2021-01-11

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[21] **3,204,617**  
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/20 (2006.01) A61K 31/216 (2006.01)**  
[25] EN  
[54] **CANCER TREATMENT COMPOSITION AND METHOD**  
[54] **COMPOSITION ET METHODE DE TRAITEMENT DU CANCER**  
[72] MYNTTI, MATTHEW F., US  
[71] NEXT SCIENCE IP HOLDINGS PTY LTD, AU  
[85] 2023-06-07  
[86] 2021-12-28 (PCT/US2021/065412)  
[87] (WO2022/147055)  
[30] US (63/131,726) 2020-12-29

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[21] **3,204,618**  
[13] A1

[51] **Int.Cl. A61F 5/24 (2006.01) A61F 5/01 (2006.01) A61F 5/02 (2006.01)**  
[25] EN  
[54] **ORTHOTIC STRUCTURE SUPPORT BELT**  
[54] **CEINTURE DE SOUTIEN DE STRUCTURE ORTHETIQUE**  
[72] SOUCY, FRANCISCO, CA  
[72] ZOSO, NATHANIEL, CA  
[71] B-TEMIA INC., CA  
[85] 2023-06-07  
[86] 2021-12-06 (PCT/CA2021/051743)  
[87] (WO2022/120466)  
[30] US (63/122,445) 2020-12-07

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[21] **3,204,679**  
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 8/49 (2006.01) A61P 17/14 (2006.01) A61Q 5/12 (2006.01) A61Q 7/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION FOR HAIR IMPROVEMENT**  
[54] **COMPOSITION POUR L'AMELIORATION DES CHEVEUX**  
[72] FUKUOKA, HIROTARO, JP  
[71] DR. CHERRY INC., JP  
[85] 2023-06-07  
[86] 2021-12-03 (PCT/JP2021/044394)  
[87] (WO2022/124212)  
[30] JP (2020-202460) 2020-12-07

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[21] **3,204,680**  
[13] A1

[51] **Int.Cl. B60K 13/04 (2006.01) E02F 9/00 (2006.01) F01N 3/24 (2006.01)**  
[25] EN  
[54] **DUMP TRUCK**  
[54] **CAMION A BENNE BASCULANTE**  
[72] HOSHINO, YUTA, JP  
[72] NAMAI, HIDETOSHI, JP  
[71] KOMATSU LTD., JP  
[85] 2023-06-07  
[86] 2022-02-15 (PCT/JP2022/005914)  
[87] (WO2022/181390)  
[30] JP (2021-028699) 2021-02-25

[21] **3,204,681**  
[13] A1

[51] **Int.Cl. E21B 47/06 (2012.01) E21B 47/26 (2012.01) E21B 43/16 (2006.01) E21B 47/10 (2012.01)**  
[25] EN  
[54] **FLUID PRODUCTION NETWORK LEAK DETECTION SYSTEM**  
[54] **SYSTEME DE DETECTION DE FUITE DE RESEAU DE PRODUCTION DE FLUIDE**  
[72] HAVRE, KJETIL, NO  
[72] TRUDVANG, CHRISTIAN, NO  
[72] KJORREFJORD, GUSTAV, NO  
[71] SCHLUMBERGER CANADA LIMITED, CA  
[85] 2023-06-07  
[86] 2021-12-07 (PCT/US2021/072769)  
[87] (WO2022/126092)  
[30] US (63/122,346) 2020-12-07

[21] **3,204,682**  
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR MONITORING AND MANAGING NEUROLOGICAL DISEASES AND CONDITIONS**  
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE ET DE GESTION DE MALADIES ET D'ETATS NEUROLOGIQUES**  
[72] KUPERMAN, RACHEL, US  
[72] AMIN, PARTH, US  
[72] SARKAR, BIKRAMJIT, US  
[71] EYSZ, INC., US  
[85] 2023-06-07  
[86] 2021-12-08 (PCT/US2021/072810)  
[87] (WO2022/126114)  
[30] US (63/123,402) 2020-12-09

[21] **3,204,684**  
[13] A1

[51] **Int.Cl. G06K 7/10 (2006.01)**  
[25] EN  
[54] **RFID MULTI-READ PORTAL**  
[54] **PORTAIL RFID A LECTURES MULTIPLES**  
[72] MARKMAN, HERBERT, US  
[72] TETER, AARON, US  
[72] DALTON, DANIEL G., US  
[71] FUJITSU FRONTTECH NORTH AMERICA INC., US  
[85] 2023-06-07  
[86] 2021-12-13 (PCT/US2021/072873)  
[87] (WO2022/133414)  
[30] US (17/121,516) 2020-12-14

[21] **3,204,685**  
[13] A1

[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/06 (2006.01) A61M 16/10 (2006.01) A61M 16/20 (2006.01)**  
[25] EN  
[54] **DATA-INTEGRATED ARTIFICIAL VENTILATION SYSTEM**  
[54] **SYSTEME DE VENTILATION ARTIFICIELLE A INTEGRATION DE DONNEES**  
[72] MAGUIRE, MICHAEL D., US  
[71] AIRMID CRITICAL CARE PRODUCTS, INC., US  
[85] 2023-06-07  
[86] 2022-01-10 (PCT/US2022/011830)  
[87] (WO2022/150710)  
[30] US (63/135,263) 2021-01-08

[21] **3,204,686**  
[13] A1

[51] **Int.Cl. C01B 21/064 (2006.01)**  
[25] EN  
[54] **BORON NITRIDE NANOTUBES AND PROCESSES FOR PRODUCING SAME**  
[54] **NANOTUBES DE NITRURE DE BORE ET LEUR PROCEDE DE PRODUCTION**  
[72] CAUCHY, XAVIER, CA  
[71] TEKNA PLASMA SYSTEMS INC., CA  
[85] 2023-06-07  
[86] 2021-12-07 (PCT/CA2021/051752)  
[87] (WO2022/120472)  
[30] US (63/122,817) 2020-12-08

[21] **3,204,687**  
[13] A1

[51] **Int.Cl. C08L 33/14 (2006.01) A01N 1/02 (2006.01) A61K 9/16 (2006.01) A61K 47/32 (2006.01) B01J 13/14 (2006.01) C07C 69/52 (2006.01) C07C 69/767 (2006.01) C07C 69/83 (2006.01) C08F 212/34 (2006.01) C08F 220/08 (2006.01) C08J 3/075 (2006.01) C08J 3/14 (2006.01) C08J 3/24 (2006.01) C08L 25/18 (2006.01) C12N 5/00 (2006.01) C12N 11/04 (2006.01)**  
[25] EN  
[54] **REACTIVE MICROPARTICLES AND THEIR USE TO PREPARE FUNCTIONAL HYDROGEL PARTICLES**  
[54] **MICROPARTICULES REACTIVES ET LEUR UTILISATION POUR PREPARER DES PARTICULES D'HYDROGEL FONCTIONNELLES**  
[72] JOHNSON, MITCHELL, CA  
[72] ROS, SAMANTHA, CA  
[72] MANGIACOTTE, NICOLE, CA  
[72] BURKE, NICHOLAS, CA  
[72] STOVER, HARALD, CA  
[71] ALLARTA LIFE SCIENCE INC., CA  
[85] 2023-06-07  
[86] 2021-12-07 (PCT/CA2021/051758)  
[87] (WO2022/120478)  
[30] US (63/122,322) 2020-12-07

[21] **3,204,689**  
[13] A1

[51] **Int.Cl. A61M 16/00 (2006.01) G16H 40/60 (2018.01) A61M 16/01 (2006.01) A61M 16/06 (2006.01) A61M 16/10 (2006.01) A61M 16/20 (2006.01)**  
[25] EN  
[54] **RESPIRATORY SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE RESPIRATOIRE**  
[72] GRAY, NATHANAEL CHARLES, NZ  
[72] WILSON, MATTHEW ROBERT, NZ  
[72] OSBORNE, HAMISH ADRIAN, NZ  
[72] PAYTON, MATTHEW JON, NZ  
[72] CHEUNG, MAN KIT JACKY, NZ  
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ  
[85] 2023-06-07  
[86] 2021-12-17 (PCT/IB2021/061898)  
[87] (WO2022/130306)  
[30] US (63/127,860) 2020-12-18

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[21] **3,204,690**  
[13] A1

[51] **Int.Cl. A61B 6/00 (2006.01)**  
[25] EN  
[54] **MINI C-ARM WITH A VARIABLE APERTURE ASSEMBLY**  
[54] **MINI-BRAS EN C A ENSEMBLE OUVERTURE VARIABLE**  
[72] PHAM, TRI, US  
[72] HANSROUL, MARC, US  
[72] PHILIPS, DAVID, US  
[71] HOLOGIC, INC., US  
[85] 2023-06-08  
[86] 2021-06-09 (PCT/US2021/036619)  
[87] (WO2022/139874)  
[30] US (63/129,266) 2020-12-22

[21] **3,204,692**  
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C07K 16/40 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS OF GUANYLYL CYCLASE C (GCC) ANTIGEN BINDING AGENTS AND METHODS OF USE THEREOF**  
[54] **COMPOSITIONS D'AGENTS DE LIAISON A L'ANTIGENE GUANYLYLE CYCLASE C (GCC) ET LEURS METHODES D'UTILISATION**  
[72] SHAPIRO, GARY, US  
[72] HE, XINGYUE, US  
[72] NG, MEI ROSA, US  
[72] THOMPSON, LORRAINE, GB  
[72] DE JUAN FRANCO, ELENA, GB  
[72] VANCE, STEVEN, GB  
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP  
[71] CRESCENDO BIOLOGICS LTD., GB  
[85] 2023-06-07  
[86] 2021-12-09 (PCT/IB2021/000852)  
[87] (WO2022/123307)  
[30] US (63/123,333) 2020-12-09

[21] **3,204,694**  
[13] A1

[51] **Int.Cl. G06Q 20/18 (2012.01) G06Q 20/12 (2012.01) G06Q 20/32 (2012.01) G06Q 30/06 (2023.01)**  
[25] EN  
[54] **CONTACTLESS CUSTOMER ORDER PICK-UP PORTAL**  
[54] **PORTAIL DE COLLECTE DE COMMANDE DE CLIENT SANS CONTACT**  
[72] BOER, WILLIAM R., US  
[72] BRUMELS, DAVID, US  
[72] FIKE, RUSTIN, US  
[72] COLE, VERONIQUE, US  
[72] PLANTAMURA, JOHN, US  
[71] DEMATIC CORP., US  
[85] 2023-06-07  
[86] 2021-12-10 (PCT/IB2021/061590)  
[87] (WO2022/123533)  
[30] US (63/124,146) 2020-12-11

[21] **3,204,699**  
[13] A1

[51] **Int.Cl. B60N 2/015 (2006.01) B60N 2/90 (2018.01) B60N 2/22 (2006.01) B60N 2/23 (2006.01) B60N 2/68 (2006.01)**  
[25] EN  
[54] **SEMI-INTEGRATED SEAT**  
[54] **SIEGE SEMI-INTEGRE**  
[72] MASTROIANNI, ENRICO, IT  
[71] AUTOMOBILI LAMBORGHINI S.P.A., IT  
[85] 2023-06-07  
[86] 2021-12-17 (PCT/IB2021/061920)  
[87] (WO2022/137053)  
[30] IT (102020000031922) 2020-12-22

[21] **3,204,701**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 31/00 (2006.01) A61K 47/06 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/18 (2017.01) A61K 47/24 (2006.01) A61K 47/26 (2006.01) A61P 1/00 (2006.01) C07C 15/00 (2006.01)**  
[25] EN  
[54] **TOPICAL PHARMACEUTICAL COMPOSITIONS AND METHODS**  
[54] **COMPOSITIONS PHARMACEUTIQUES TOPIQUES ET PROCEDES**  
[72] PAL, KOLLOL, US  
[72] BHAT, ABHIJIT, US  
[72] BIRNBAUM, JAY, US  
[72] NALAMOTHU, VIENDRA, US  
[72] MANNE, SRIKANTH, US  
[72] KRISHNAN, GAYATHRI, US  
[72] THERRIEN, JEAN-PHILIPPE, US  
[71] PYRAMID BIOSCIENCES, INC., US  
[85] 2023-06-07  
[86] 2021-12-28 (PCT/IB2021/062364)  
[87] (WO2022/144758)  
[30] US (63/131,647) 2020-12-29

[21] **3,204,702**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01)**  
[25] EN  
[54] **ANTI-HLA-G ANTIBODIES AND USE THEREOF**  
[54] **ANTICORPS ANTI-HLA-G ET LEUR UTILISATION**  
[72] BUJOTZEK, ALEXANDER, DE  
[72] CARPY GUTIERREZ CIRLOS, ALEJANDRO, DE  
[72] FREIMOSER-GRUNDSCHOBBER, ANNE, CH  
[72] HAGE, CARINA, DE  
[72] HOFER, THOMAS, CH  
[72] KIRCHNER, SILKE, DE  
[72] MAJETY, MEHER, DE  
[72] MOESSNER, EKKEHARD, CH  
[72] NEUMANN, CHRISTIANE, CH  
[72] SPICK, CHRISTIAN, DE  
[72] TIEFENTHALER, GEORG, DE  
[72] WEINDL, THOMAS, DE  
[71] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2023-06-08  
[86] 2021-12-15 (PCT/EP2021/085810)  
[87] (WO2022/129120)  
[30] EP (20214951.4) 2020-12-17  
[30] EP (21203272.6) 2021-10-18

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[21] **3,204,704**  
[13] A1

[51] **Int.Cl. C07D 301/10 (2006.01)**  
[25] EN  
[54] **PROCESS FOR THE PRODUCTION OF ETHYLENE OXIDE**  
[54] **PROCEDE DE PRODUCTION D'OXYDE D'ETHYLENE**  
[72] LOCKEMEYER, JOHN ROBERT, US  
[72] YEATES, RANDALL CLAYTON, US  
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL  
[85] 2023-06-07  
[86] 2022-01-07 (PCT/IB2022/050112)  
[87] (WO2022/144866)  
[30] EP (20217699.6) 2020-12-29

[21] **3,204,714**  
[13] A1

[51] **Int.Cl. B03C 3/12 (2006.01) F24F 8/30 (2021.01) A61L 9/22 (2006.01) B03C 3/38 (2006.01) B03C 3/68 (2006.01) B60H 3/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR AIR STERILISATION**  
[54] **SYSTEME ET PROCEDE DE STERILISATION D'AIR**  
[72] CHENG, YUEN YEE, AU  
[72] SUHRBIER, ANDREAS, AU  
[72] FAN, HUA, AU  
[71] MEDAIR LIMITED, CN  
[85] 2023-06-08  
[86] 2021-12-22 (PCT/AU2021/051540)  
[87] (WO2022/133535)  
[30] AU (2020904854) 2020-12-24

[21] **3,204,717**  
[13] A1

[51] **Int.Cl. F24F 3/14 (2006.01)**  
[25] EN  
[54] **HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEM WITH DEHUMIDIFICATION**  
[54] **SYSTEME DE CHAUFFAGE, DE VENTILATION ET DE CLIMATISATION AVEC DESHUMIDIFICATION**  
[72] VASUDEVAN, GEETHAKRISHNAN, US  
[71] GOODMAN GLOBAL GROUP, INC., US  
[85] 2023-06-08  
[86] 2021-11-16 (PCT/US2021/059516)  
[87] (WO2022/139979)  
[30] US (17/128,902) 2020-12-21

[21] **3,204,719**  
[13] A1

[51] **Int.Cl. C08F 210/16 (2006.01) C08F 4/02 (2006.01) C08F 4/16 (2006.01) C08F 4/24 (2006.01) C08F 110/02 (2006.01) C08J 5/18 (2006.01)**  
[25] EN  
[54] **PARTICLE SIZE CONTROL OF SUPPORTED CHROMIUM CATALYSTS IN LOOP SLURRY POLYMERIZATION REACTORS**  
[54] **CONTROLE DE TAILLE DE PARTICULES DE CATALYSEURS AU CHROME SUPPORTES DANS DES REACTEURS DE POLYMERISATION A BOUES LIQUIDES A BOUCLE**  
[72] MCDANIEL, MAX P., US  
[72] ASH, CARLTON E., US  
[72] CLEAR, KATHY S., US  
[72] SCHWERDTFEGER, ERIC D., US  
[72] CRUZ, CARLOS A., US  
[72] PRAETORIUS, JEREMY M., US  
[72] YU, YOU LU, US  
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US  
[85] 2023-06-08  
[86] 2021-12-07 (PCT/US2021/062257)  
[87] (WO2022/125581)  
[30] US (63/122,523) 2020-12-08

[21] **3,204,720**  
[13] A1

[51] **Int.Cl. A47C 1/032 (2006.01)**  
[25] EN  
[54] **RECLINABLE SEATING APPARATUS**  
[54] **APPAREIL DE SIEGE INCLINABLE**  
[72] ALLISON, GREG, US  
[71] HUMANSSCALE CORPORATION, US  
[85] 2023-06-08  
[86] 2021-12-08 (PCT/US2021/062404)  
[87] (WO2022/125662)  
[30] US (63/122,890) 2020-12-08

[21] **3,204,721**  
[13] A1

[51] **Int.Cl. A61K 8/9794 (2017.01) A61K 8/9789 (2017.01) A61K 8/19 (2006.01) A61K 8/99 (2017.01) A61Q 19/00 (2006.01) A61Q 19/02 (2006.01) A61Q 19/08 (2006.01)**  
[25] EN  
[54] **FERMENT FROM STRUCTURED WATER MEDIUM AND COSMETIC COMPOSITION COMPRISING THE SAME**  
[54] **FERMENT ISSU D'UN MILIEU AQUEUX STRUCTURE ET COMPOSITION COSMETIQUE LE COMPRENANT**  
[72] URBANIK, JOANNA, US  
[72] NOWICKI, AMBER MARIE, US  
[72] TSOLIS, PETER JOHN, US  
[72] MAMMONE, THOMAS, US  
[71] ELC MANAGEMENT LLC, US  
[85] 2023-06-08  
[86] 2021-12-08 (PCT/US2021/062480)  
[87] (WO2022/125707)  
[30] US (63/123,441) 2020-12-09

[21] **3,204,723**  
[13] A1

[51] **Int.Cl. C07K 14/54 (2006.01) C07K 14/715 (2006.01) C12N 15/09 (2006.01)**  
[25] EN  
[54] **FUSIONS OF MUTANT INTERLEUKIN-10 POLYPEPTIDES WITH ANTIGEN BINDING MOLECULES FOR MODULATING IMMUNE CELL FUNCTION**  
[54] **FUSIONS DE POLYPEPTIDES D'INTERLEUKINE-10 MUTANTS AVEC DES MOLECULES DE LIAISON A L'ANTIGENE POUR MODULER LA FONCTION DE CELLULES IMMUNITAIRES**  
[72] YEUNG, YIK ANDY, US  
[72] LIU, DAVID, US  
[72] GREER, RENEE, US  
[72] NGUYEN, HENRY, US  
[72] CHAN, SINDY LIAO, US  
[72] CHIN, SHERMAN MICHAEL, US  
[72] MESKO, PAUL, US  
[72] NI, IRENE, US  
[72] DJURETIC, IVANA, US  
[71] ASHER BIOTHERAPEUTICS, INC., US  
[85] 2023-06-08  
[86] 2021-12-08 (PCT/US2021/062485)  
[87] (WO2022/125712)  
[30] US (63/123,387) 2020-12-09  
[30] US (63/169,604) 2021-04-01

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[21] **3,204,725**  
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/395 (2006.01) A61K 31/404 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATMENT FOR CYSTIC FIBROSIS**

[54] **METHODS DE TRAITEMENT DE LA MUCOVISCIDOSE**

[72] BOREK, BARTLOMIEJ, US

[72] CHEN, WEICHAO GEORGE, US

[72] GUNAWAN, RUDY, US

[72] HASELTINE, ERIC, US

[72] NAIR, NITIN, US

[72] PANORCHAN, PORNTULA, US

[72] SOSNAY, PATRICK, US

[71] VERTEX PHARMACEUTICALS INCORPORATED, US

[85] 2023-06-08

[86] 2021-12-09 (PCT/US2021/062687)

[87] (WO2022/125826)

[30] US (63/123,928) 2020-12-10

[30] US (63/124,575) 2020-12-11

[30] US (63/150,434) 2021-02-17

[21] **3,204,753**  
[13] A1

[51] **Int.Cl. A61K 45/00 (2006.01) A61K 31/192 (2006.01) A61P 27/10 (2006.01) A61P 43/00 (2006.01) C12Q 1/02 (2006.01) C12Q 1/68 (2018.01) G01N 33/15 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **EYEDROPS FOR INHIBITING MYOPIA PROGRESSION IN CHILDREN AND SCREENING METHOD FOR INHIBITOR OF MYOPIA PROGRESSION IN CHILDREN**

[54] **COLLYRE POUR INHIBER LA PROGRESSION DE LA MYOPIE CHEZ LES ENFANTS ET METHODE DE CRIBLAGE POUR UN INHIBITEUR DE LA PROGRESSION DE LA MYOPIE CHEZ LES ENFANTS**

[72] TSUBOTA, KAZUO, JP

[72] KURIHARA, TISHIHIDE, JP

[72] IKEDA, SHINICHI, JP

[72] MORI, KIWAKO, JP

[72] JIANG, XIAOYAN, JP

[71] TSUBOTA LABORATORY, INC., JP

[85] 2023-06-08

[86] 2021-09-01 (PCT/JP2021/032067)

[87] (WO2022/123836)

[30] JP (2020-205489) 2020-12-11

[21] **3,204,754**  
[13] A1

[51] **Int.Cl. B26B 13/06 (2006.01)**

[25] EN

[54] **SHEARS FOR SEAM CUTTING**

[54] **CISEAUX POUR DECOUPE PRES DE COUTURES**

[72] NOVIKOV, MIKHAIL ANDREEVICH, RU

[71] NOVIKOV, MIKHAIL ANDREEVICH, RU

[85] 2023-07-11

[86] 2020-08-11 (PCT/RU2020/000423)

[87] (WO2022/035341)

[21] **3,204,762**  
[13] A1

[51] **Int.Cl. C22B 3/00 (2006.01) B01J 4/00 (2006.01) B01J 19/18 (2006.01) B01J 19/20 (2006.01) C01G 5/00 (2006.01) C01G 7/00 (2006.01) C22B 3/02 (2006.01) C22B 3/04 (2006.01) C22B 3/16 (2006.01) C22B 3/20 (2006.01) C22B 3/26 (2006.01) C22B 3/44 (2006.01) C22B 11/00 (2006.01) C22B 11/08 (2006.01)**

[25] EN

[54] **OXYGEN DIFFUSION SYSTEM IN LEACHING AND CYANIDE DESTRUCTION TANKS.**

[54] **SYSTEME DE DIFFUSION D'OXYGENE DANS LES RESERVOIRS DE LIXIVIATION ET D'ELIMINATION DU CYANURE**

[72] CASALES HERNANDEZ, MARIA DE LOS ANGELES, MX

[72] ZUNIGA FRANCO, DANIEL, MX

[72] QUINTERO MORALES, JOSE ARTURO, MX

[71] CRYOINFRA S.A. DE C.V., MX

[85] 2023-04-18

[86] 2021-08-18 (PCT/IB2021/057587)

[87] (WO2022/038530)

[30] MX (MX/a/2020/008753) 2020-08-20

[21] **3,204,768**  
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) B60K 31/00 (2006.01) B65G 1/04 (2006.01) G05B 19/416 (2006.01)**

[25] EN

[54] **MOTION CONTROL OF A ROBOTIC LOAD HANDLING DEVICE**

[54] **COMMANDE DE MOUVEMENT D'UN DISPOSITIF DE MANIPULATION DE CHARGE ROBOTIQUE**

[72] JORGE, TIAGO MIGUENS RIJO BRANCO, GB

[71] OCADO INNOVATION LIMITED, GB

[85] 2023-06-07

[86] 2021-12-21 (PCT/EP2021/087168)

[87] (WO2022/136480)

[30] GB (2020668.6) 2020-12-24

[30] GB (2020680.1) 2020-12-24

[30] GB (2020681.9) 2020-12-24

[30] GB (2020684.3) 2020-12-24

[21] **3,204,775**  
[13] A1

[51] **Int.Cl. A01G 9/029 (2018.01) A01C 5/02 (2006.01)**

[25] EN

[54] **DEVICE FOR CULTIVATING AND PROTECTING FOREST AND/OR CROP PLANTS, ITS USE AND METHOD FOR PRODUCING THE DEVICE FOR CULTIVATING AND PROTECTING FOREST AND/OR CROP PLANTS**

[54] **DISPOSITIF DE CULTURE ET DE PROTECTION DE PLANTES CULTIVEES ET/OU FORESTIERES, UTILISATION DU DISPOSITIF ET PROCEDE DE FABRICATION DU DISPOSITIF DE CULTURE ET DE PROTECTION DE PLANTES CULTIVEES ET/OU FORESTIERE**

[72] GRAUVOGEL, ULRICH, DE

[72] WAGNER, JOHANNES, DE

[71] WAGNER, JOHANNES, DE

[85] 2023-07-11

[86] 2021-12-31 (PCT/EP2021/087899)

[87] (WO2022/148709)

[30] DE (10 2021 100 066.1) 2021-01-05

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[21] **3,204,786**  
[13] A1

[51] **Int.Cl. B29C 48/154 (2019.01) B29C 48/21 (2019.01) B29C 48/23 (2019.01) B29C 48/34 (2019.01) B29C 53/08 (2006.01)**

[25] EN

[54] **TUBE ASSEMBLY AND METHOD OF FORMING SAME**

[54] **ENSEMBLE TUBE ET SON PROCEDE DE FORMATION**

[72] GUPTA, SAHIL, US  
[72] MALLAMACI, MICHAEL, US  
[72] BRADY, AIDAN, US  
[71] PARKER-HANNIFIN CORPORATION, US

[85] 2023-07-11  
[86] 2021-09-10 (PCT/US2021/049861)  
[87] (WO2022/056259)  
[30] US (63/077,301) 2020-09-11

[21] **3,204,814**  
[13] A1

[51] **Int.Cl. A61K 45/00 (2006.01) A61K 9/08 (2006.01) A61K 31/192 (2006.01) A61K 31/575 (2006.01) A61P 27/02 (2006.01) A61P 27/10 (2006.01) C12Q 1/02 (2006.01) C12Q 1/68 (2018.01) G01N 33/15 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **EYEDROPS FOR TREATING SCLERAL THINNING AND SCREENING METHOD FOR THERAPEUTIC AGENT OF SCLERAL THINNING**

[54] **COLLYRE POUR LE TRAITEMENT DE L'AMINCISSEMENT SCLERAL ET PROCEDE DE CRIBLAGE POUR AGENT THERAPEUTIQUE D'AMINCISSEMENT SCLERAL**

[72] TSUBOTA, KAZUO, JP  
[72] KURIHARA, TOSHIHIDE, JP  
[72] IKEDA, SHINICHI, JP  
[72] MORI, KIWAKO, JP  
[72] JIANG, XIAOYAN, JP  
[71] TSUBOTA LABORATORY, INC., JP

[85] 2023-06-08  
[86] 2021-09-01 (PCT/JP2021/032068)  
[87] (WO2022/123837)  
[30] JP (2020-205490) 2020-12-11

[21] **3,204,817**  
[13] A1

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

[25] EN

[54] **DECELLULARIZED TISSUE COMPOSITION**

[54] **COMPOSITION DE TISSU DECELLULARISE**

[72] HOMMA, MITSUMASA, JP  
[72] HIWATARI, KENICHIRO, JP  
[72] OBARA, HARUKI, JP  
[72] KIMURA, TAKUYA, JP  
[72] KINOSHITA, KEITA, JP  
[71] ADEKA CORPORATION, JP

[85] 2023-06-08  
[86] 2021-11-12 (PCT/JP2021/041694)  
[87] (WO2022/102739)  
[30] JP (2020-188489) 2020-11-12

[21] **3,204,818**  
[13] A1

[51] **Int.Cl. H01M 10/0567 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 4/587 (2010.01) H01M 10/052 (2010.01) H01M 4/36 (2006.01) H01M 4/38 (2006.01) H01M 4/48 (2010.01) H01M 4/58 (2010.01)**

[25] EN

[54] **NOVEL ADDITIVE FOR NONAQUEOUS ELECTROLYTE, AND LITHIUM SECONDARY BATTERY COMPRISING SAME**

[54] **NOUVEL ADDITIF POUR ELECTROLYTE NON AQUEUX, ET BATTERIE SECONDAIRE AU LITHIUM LE COMPRENANT**

[72] JEONG, YOU KYEONG, KR  
[72] AHN, KYOUNG HO, KR  
[72] HAN, JUN HYEOK, KR  
[72] SHIN, WON KYUNG, KR  
[72] LEE, WON TAE, KR  
[72] JI, SU HYEON, KR  
[72] OH, YOUNG HO, KR  
[71] LG ENERGY SOLUTION, LTD., KR

[85] 2023-06-08  
[86] 2022-10-21 (PCT/KR2022/016109)  
[87] (WO2023/090664)  
[30] KR (10-2021-0157225) 2021-11-16  
[30] KR (10-2022-0131377) 2022-10-13

[21] **3,204,819**  
[13] A1

[51] **Int.Cl. A61K 31/497 (2006.01) A61K 31/496 (2006.01) A61K 31/58 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING PROSTATE CANCER**

[54] **METHODES DE TRAITEMENT DU CANCER DE LA PROSTATE**

[72] CHIRNOMAS, SARAH DEBORAH, US  
[72] GEDRICH, RICHARD WALTER, US  
[72] PECK, RONALD, US  
[72] TAYLOR, IAN CHARLES ANTHONY, US  
[71] ARVINAS OPERATIONS, INC., US

[85] 2023-06-08  
[86] 2021-12-10 (PCT/US2021/062924)  
[87] (WO2022/125969)  
[30] US (63/124,640) 2020-12-11  
[30] US (63/125,345) 2020-12-14

[21] **3,204,820**  
[13] A1

[51] **Int.Cl. G06F 8/20 (2018.01) G06F 8/34 (2018.01) G06F 8/38 (2018.01) G06F 9/445 (2018.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DEVELOPING USER INTERFACE APPLICATIONS**

[54] **SYSTEME ET PROCEDE DE DEVELOPPEMENT D'APPLICATIONS D'INTERFACE UTILISATEUR**

[72] ROWELL, ERIC DON, US  
[72] EUN, DANIEL SOL, US  
[71] UI FLOW, INC., US

[85] 2023-06-08  
[86] 2021-12-10 (PCT/US2021/062957)  
[87] (WO2022/125992)  
[30] US (63/124,628) 2020-12-11

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[21] **3,204,821**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) A61M 39/22 (2006.01) C12M 1/26 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **DISPOSABLE KITS FOR CELL WASHING, MAGNETIC ISOLATION AND DOSING PREPARATION**

[54] **KITS JETABLES POUR LE LAVAGE DE CELLULES, L'ISOLEMENT MAGNETIQUE ET LA PREPARATION DE DOSAGES**

[72] CHASSOT, PIERRE-YVES, US

[72] LINK, OLIVER, US

[72] ZANONI, FEDERICO, US

[72] TIMMINS, MARK, US

[72] SHAIKH, KASHAN ALI, US

[72] DE LAGENESTE, MARINE, US

[72] CHEROK, DENNIS, US

[72] THOUEMENT, YANN, US

[72] HEIMBERG, YORICK, US

[72] FOUCAUT, BERTRAND, US

[72] CAMISANI, JULIEN, US

[72] YOUNG, KENT, US

[72] GARDINER, SIMON, US

[72] SWANDA, ANTHONY P., US

[71] GLOBAL LIFE SCIENCES SOLUTIONS USA LLC, US

[71] KITE PHARMA, INC., US

[85] 2023-06-08

[86] 2021-12-14 (PCT/US2021/063342)

[87] (WO2022/132793)

[30] US (63/125,831) 2020-12-15

[21] **3,204,823**  
[13] A1

[51] **Int.Cl. C07D 487/14 (2006.01) A61K 31/4353 (2006.01) C07D 491/04 (2006.01) C07D 491/14 (2006.01)**

[25] EN

[54] **PRMTS INHIBITORS**

[54] **INHIBITEURS DE PRMTS**

[72] BOOKER, SHON, US

[72] BOURBEAU, MATTHEW PAUL, US

[72] BUTLER, JOHN R., US

[72] GLAD, SANNE OMHOLT SCHRODER, US

[72] LANMAN, BRIAN ALAN, US

[72] LOPEZ, PATRICIA, US

[72] MANONI, FRANCESCO, US

[72] PETTUS, LIPING H., US

[72] SARVARY, IAN, US

[72] TAMAYO, NURIA A., US

[72] VESTERGAARD, MIKKEL, US

[72] WEIRES, NICHOLAS ANTHONY, US

[71] AMGEN INC., US

[85] 2023-06-08

[86] 2021-12-15 (PCT/US2021/063540)

[87] (WO2022/132914)

[30] US (63/126,416) 2020-12-16

[21] **3,204,824**  
[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01)**

[25] EN

[54] **LIRIC CALIBRATION BASED ON MULTIPHOTON EXCITATION**

[54] **ETALONNAGE LIRIC BASE SUR UNE EXCITATION MULTIPHOTONIQUE**

[72] ZHELEZNYAK, LEN, US

[72] BUTLER, SAM, US

[72] COX, STEVEN, US

[72] MICHALKO, AARON, US

[71] CLERIO VISION, INC., US

[85] 2023-06-08

[86] 2021-12-17 (PCT/US2021/064147)

[87] (WO2022/140194)

[30] US (63/129,023) 2020-12-22

[21] **3,204,825**  
[13] A1

[51] **Int.Cl. A61K 31/513 (2006.01) A61K 31/70 (2006.01) C07H 19/06 (2006.01) C12P 19/38 (2006.01)**

[25] EN

[54] **ENGINEERED URIDINE PHOSPHORYLASE VARIANT ENZYMES**

[54] **ENZYMES VARIANTES D'URIDINE PHOSPHORYLASE MODIFIEES**

[72] VROOM, JONATHAN, US

[72] HURTAK, JESSICA ANNA, US

[72] KNIGHT, ANDERS MATTHEW, US

[71] CODEXIS, INC., US

[85] 2023-06-08

[86] 2021-12-17 (PCT/US2021/064161)

[87] (WO2022/133289)

[30] US (63/127,431) 2020-12-18

[30] US (63/148,324) 2021-02-11

[21] **3,204,826**  
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/861 (2006.01)**

[25] EN

[54] **ADENOVIRAL GENE THERAPY VECTORS**

[54] **VECTEURS ADENOVIRAUX DE THERAPIE GENIQUE**

[72] ROY, SOUMITRA, US

[72] BASHYAM, ASHVIN REDDY, US

[71] ENSOMA, INC., US

[85] 2023-06-08

[86] 2021-12-22 (PCT/US2021/064979)

[87] (WO2022/140618)

[30] US (63/129,233) 2020-12-22

[21] **3,204,827**  
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01) A61B 1/018 (2006.01)**

[25] EN

[54] **MEDICAL DEVICE ACTUATORS**

[54] **ACTIONNEURS DE DISPOSITIF MEDICAL**

[72] POWELL, SEAN, US

[72] JAGELSKI, MATTHEW, US

[72] MCBRIEN, MICHAEL, US

[71] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2023-06-08

[86] 2021-12-27 (PCT/US2021/065202)

[87] (WO2022/146915)

[30] US (63/132,538) 2020-12-31

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[21] **3,204,828**  
[13] A1

[51] **Int.Cl. E01F 15/14 (2006.01) E01F 15/04 (2006.01)**  
[25] EN  
[54] **TRANSITIONS FOR JOINING CRASH IMPACT ATTENUATOR SYSTEMS TO FIXED STRUCTURES**  
[54] **TRANSITIONS POUR ASSEMBLER DES SYSTEMES D'ATTENUATEUR D'IMPACT DE COLLISION A DES STRUCTURES FIXES**  
[72] MAUS, GEOFFREY B., US  
[72] ALMANZA, FELIPE, US  
[72] RAMIREZ, ROBERT, US  
[72] FALLER, RONALD KEITH, US  
[72] BIELENBERG, ROBERT W., US  
[72] ROSENBAUGH, SCOTT KENNETH, US  
[71] TRAFFIX DEVICES, INC., US  
[71] NUTECH VENTURES, US  
[85] 2023-06-08  
[86] 2022-01-06 (PCT/US2022/011483)  
[87] (WO2022/150505)  
[30] US (63/135,413) 2021-01-08

[21] **3,204,831**  
[13] A1

[51] **Int.Cl. A61F 2/07 (2013.01) A61F 2/00 (2006.01)**  
[25] EN  
[54] **STENT GRAFT AND METHOD OF MAKING A STENT GRAFT**  
[54] **MISE EN PLACE D'UNE ENDOPROTHESE ET PROCEDE DE MISE EN PLACE D'UNE ENDOPROTHESE**  
[72] KLODT, KATRIN, DE  
[72] VOGEL, MICHAEL, DE  
[72] SUPPER, WOLFGANG, DE  
[71] ANGIOMED GMBH & CO. MEDIZINTECHNIK KG, DE  
[85] 2023-06-08  
[86] 2020-12-17 (PCT/EP2020/086716)  
[87] (WO2022/128094)

[21] **3,204,833**  
[13] A1

[51] **Int.Cl. C08F 2/06 (2006.01) C08F 6/12 (2006.01) C08J 11/02 (2006.01)**  
[25] EN  
[54] **POLYMERIZATION PROCESS AND ARRANGEMENT**  
[54] **PROCEDE ET ARRANGEMENT DE POLYMERISATION**  
[72] AL-HAJ ALI, MOHAMMAD, FI  
[72] WEBER, CHARLOTTA, SE  
[72] SLEIJSTER, HENRY, NL  
[72] AJELLAL, NOUREDDINE, FI  
[72] SATTAR, MUBASHAR, FI  
[71] BOREALIS AG, AT  
[85] 2023-06-01  
[86] 2020-12-08 (PCT/EP2020/085081)  
[87] (WO2022/122125)

[21] **3,204,834**  
[13] A1

[51] **Int.Cl. G08G 1/16 (2006.01) G08B 21/02 (2006.01)**  
[25] EN  
[54] **A TRAFFIC RISK MANAGEMENT SYSTEM**  
[54] **SYSTEME DE GESTION DE RISQUE DE TRAFIC**  
[72] BOYLE, NORMAN, AU  
[71] BOYLE, NORMAN, AU  
[85] 2023-06-08  
[86] 2021-12-10 (PCT/AU2021/051475)  
[87] (WO2022/120433)  
[30] AU (2020904585) 2020-12-10

[21] **3,204,835**  
[13] A1

[51] **Int.Cl. B65B 13/18 (2006.01) G01L 5/04 (2006.01)**  
[25] EN  
[54] **DEVICE FOR MEASURING THE TENSIONING OF A STRAPPING, METHOD FOR MEASURING SAID TENSIONING AND STRAPPING MACHINE USING THE AFORESAID MEASURING DEVICE**  
[54] **DISPOSITIF DE MESURE DE LA TENSION D'UN CERCLAGE, PROCEDE DE MESURE DE LADITE TENSION ET MACHINE DE CERCLAGE UTILISANT LEDIT DISPOSITIF DE MESURE**  
[72] BENETTI, BRUNO, IT  
[71] ITIPACK SRL, IT  
[85] 2023-06-08  
[86] 2022-05-13 (PCT/IB2022/054464)  
[87] (WO2022/238968)  
[30] IT (102021000012491) 2021-05-14

[21] **3,204,838**  
[13] A1

[51] **Int.Cl. H04L 61/256 (2022.01) H04L 61/2567 (2022.01) H04L 69/08 (2022.01) H04L 12/46 (2006.01)**  
[25] EN  
[54] **METHOD FOR ESTABLISHING TRUSTED DATA COMMUNICATION BETWEEN NETWORKS**  
[54] **PROCEDE D'ETABLISSEMENT D'UNE COMMUNICATION DE DONNEES DE CONFIANCE ENTRE DES RESEAUX**  
[72] HUBERS VAN ASSENRAAD, TODD STEVEN, AU  
[71] DULL IP PTY LTD, AU  
[85] 2023-06-09  
[86] 2021-12-17 (PCT/AU2021/051515)  
[87] (WO2022/126200)  
[30] AU (2020904728) 2020-12-18

[21] **3,204,839**  
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) A61B 5/369 (2021.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR NEUROLOGICAL TRIGGER, ACTIVATION OR CONTROL OF A COMPUTER USER WITHOUT EXTERNAL STIMULUS**  
[54] **SYSTEME ET PROCEDE DE DECLenchement, D'ACTIVATION OU DE COMMANDE NEUROLOGIQUES D'UNE INTERFACE UTILISATEUR D'ORDINATEUR SANS STIMULUS EXTERNE**  
[72] KUMAR, ABHINAV, IN  
[72] GAND, FRANCOIS, CA  
[71] NURO CORP., CA  
[85] 2023-06-09  
[86] 2021-12-06 (PCT/CA2021/051738)  
[87] (WO2022/120465)  
[30] US (63/123,647) 2020-12-10

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[21] **3,204,842**  
[13] A1

[51] **Int.Cl. G01N 21/49 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD OF EGG FERTILITY AND GENDER DETECTION**  
[54] **SYSTEME ET PROCEDE DE DETECTION DE FERTILITE D'UFS ET DE SEXE**  
[72] LIU, LI, CA  
[72] NGADI, MICHAEL, CA  
[71] MATRIXSPEC SOLUTIONS INC., CA  
[85] 2023-06-09  
[86] 2021-12-10 (PCT/CA2021/051779)  
[87] (WO2022/120491)  
[30] US (63/124,114) 2020-12-11

[21] **3,204,847**  
[13] A1

[25] EN  
[54] **MULTI-SHELL HELMET WITH PIVOTABLE OUTER SHELL**  
[54] **CASQUE MULTI-COQUE A COQUE EXTERNE PIVOTANTE**  
[72] CRIPTON, PETER ALEC, CA  
[72] CHUNG, VIVIAN WOAN JIEN, CA  
[72] WHYTE, THOMAS CHRISTOPHER, AU  
[72] BOOTH, GABRIELLE ROSE, CA  
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA  
[85] 2023-06-08  
[86] 2021-12-10 (PCT/CA2021/051787)  
[87] (WO2022/120498)  
[30] US (63/124,678) 2020-12-11

[21] **3,204,849**  
[13] A1

[51] **Int.Cl. A61K 31/195 (2006.01) A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 31/201 (2006.01) A61K 33/18 (2006.01) A61K 36/66 (2006.01) A61K 49/00 (2006.01) A61P 19/00 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **EMBOLIZING EMULSION FOR TREATMENT OF INFLAMMATORY HYPERVASCULARIZATION ASSOCIATED WITH MUSCULOSKELETAL DISORDERS**  
[54] **EMULSION D'EMBOLISATION POUR LE TRAITEMENT DE L'HYPERVASCULARISATION INFLAMMATOIRE ASSOCIEE A DES TROUBLES MUSCULO-SQUELETTIQUES**  
[72] SAPOVAL, MARC, FR  
[72] DEL GIUDICE, CONSTANTINO, FR  
[72] DEAN, CAROLE, FR  
[72] PELLERIN, OLIVIER, FR  
[71] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR  
[71] GUERBET, FR  
[71] UNIVERSITE PARIS CITE, FR  
[85] 2023-06-08  
[86] 2021-12-10 (PCT/EP2021/085284)  
[87] (WO2022/123049)  
[30] EP (20306538.8) 2020-12-10  
[30] EP (21305228.5) 2021-02-26

[21] **3,204,850**  
[13] A1

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/28 (2006.01) A24B 15/38 (2006.01)**  
[25] EN  
[54] **A POUCHED PRODUCT FOR ORAL USE**  
[54] **PRODUIT EN SACHET POUR UN USAGE ORAL**  
[72] KINDVALL, MARTEN, SE  
[71] SWEDISH MATCH NORTH EUROPE AB, SE  
[85] 2023-06-08  
[86] 2021-12-21 (PCT/EP2021/086940)  
[87] (WO2022/136340)  
[30] EP (20216462.0) 2020-12-22

[21] **3,204,851**  
[13] A1

[51] **Int.Cl. H01R 41/00 (2006.01) B25J 17/00 (2006.01) B25J 19/00 (2006.01)**  
[25] EN  
[54] **SIGNAL TRANSMISSION DEVICE FOR ARTICULATED MECHANISM**  
[54] **DISPOSITIF DE TRANSMISSION DE SIGNAL POUR MECANISME ARTICULE**  
[72] FORGET, JEAN-FRANCOIS, CA  
[72] FRIGON, NICOLAS, CA  
[71] KINOVA INC., CA  
[85] 2023-06-09  
[86] 2022-01-07 (PCT/CA2022/050013)  
[87] (WO2022/147619)  
[30] US (63/135,122) 2021-01-08

[21] **3,204,853**  
[13] A1

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/28 (2006.01) A24B 15/38 (2006.01)**  
[25] EN  
[54] **A POUCHED PRODUCT FOR ORAL USE COMPRISING A PARTICULATE FILLING MATERIAL**  
[54] **PRODUIT EN SACHET A USAGE ORAL COMPRENANT UN MATERIAU DE REMPLISSAGE PARTICULAIRE**  
[72] KINDVALL, MARTEN, SE  
[71] SWEDISH MATCH NORTH EUROPE AB, SE  
[85] 2023-06-08  
[86] 2021-12-21 (PCT/EP2021/086958)  
[87] (WO2022/136354)  
[30] EP (20216454.7) 2020-12-22

[21] **3,204,855**  
[13] A1

[51] **Int.Cl. B65G 17/34 (2006.01)**  
[25] EN  
[54] **TRANSFER DEVICE**  
[54] **DISPOSITIF D'EJECTION**  
[72] DUDEK, SIEGMUND, DE  
[72] HAGMAIER, CHRISTIAN, DE  
[71] INTERROLL HOLDING AG, CH  
[85] 2023-06-08  
[86] 2021-12-08 (PCT/EP2021/084717)  
[87] (WO2022/122792)  
[30] DE (10 2020 132 966.0) 2020-12-10  
[30] DE (10 2021 110 697.4) 2021-04-27



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[21] **3,204,856**  
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) B60K 31/00 (2006.01) B65G 1/04 (2006.01) G05B 19/416 (2006.01)**

[25] EN

[54] **MOTION CONTROL OF A ROBOTIC LOAD HANDLING DEVICE**

[54] **COMMANDE DE MOUVEMENT D'UN DISPOSITIF DE MANIPULATION DE CHARGE ROBOTIQUE**

[72] JORGE, TIAGO MIGUENS RIJO BRANCO, GB

[71] OCADO INNOVATION LIMITED, GB

[85] 2023-06-08

[86] 2021-12-21 (PCT/EP2021/087170)

[87] (WO2022/136482)

[30] GB (2020668.6) 2020-12-24

[30] GB (2020680.1) 2020-12-24

[30] GB (2020681.9) 2020-12-24

[30] GB (2020684.3) 2020-12-24

[21] **3,204,857**  
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/73 (2017.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR QUALITY CONTROL OF MICROARRAY PRINTING**

[54] **SYSTEMES ET PROCEDES PERMETTANT LE CONTROLE QUALITE D'UNE IMPRESSION DE MICRO-RESEAUX**

[72] MAZOUCHI, AMIR MOHAMMAD, CA

[71] SAFEGUARD BIOSYSTEMS HOLDINGS LTD, GB

[85] 2023-06-08

[86] 2021-12-22 (PCT/EP2021/087440)

[87] (WO2022/136619)

[30] US (63/130,485) 2020-12-24

[21] **3,204,858**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **ANTI-LAG-3 MONOCLONAL ANTIBODY AND ANTIGEN BINDING FRAGMENT THEREOF, AND USE THEREOF**

[54] **ANTICORPS MONOCLONAL ANTI-LAG-3, FRAGMENT DE LIAISON A L'ANTIGENE ET UTILISATION ASSOCIEE**

[72] BAI, YI, CN

[72] ZHOU, JUNJIE, CN

[72] LIU, SI, CN

[71] BEIJING DONGFANG BIOTECH CO., LTD., CN

[71] BEIJING JINGYITAI XIANG TECHNOLOGY DEVELOPMENT CO. LTD., CN

[85] 2023-06-09

[86] 2021-11-29 (PCT/CN2021/133941)

[87] (WO2022/121720)

[30] CN (202011436581.5) 2020-12-10

[21] **3,204,859**  
[13] A1

[51] **Int.Cl. G01N 33/542 (2006.01) G01N 21/64 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **A METHOD FOR DETECTING AN ANALYTE**

[54] **PROCEDE DE DETECTION D'UN ANALYSTE**

[72] ROSS, STEVEN ANDREW, GB

[72] MONAGHAN, PAUL BRENDAN, GB

[72] RICHARDS, JULIE, GB

[72] MCGETTRICK, AILEEN JANE, GB

[71] PSYROS DIAGNOSTICS LIMITED, GB

[85] 2023-06-08

[86] 2021-12-15 (PCT/GB2021/053301)

[87] (WO2022/129899)

[30] GB (2019912.1) 2020-12-16

[21] **3,204,860**  
[13] A1

[51] **Int.Cl. H04W 56/00 (2009.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR REFERENCE SIGNALING DESIGN AND CONFIGURATION**

[54] **PROCEDE ET SYSTEME DE CONCEPTION ET DE CONFIGURATION DE SIGNALISATION DE REFERENCE**

[72] ZHANG, SHUJUAN, CN

[72] GAO, BO, CN

[72] YAO, KE, CN

[72] HE, ZHEN, CN

[72] JIANG, CHUANGXIN, CN

[72] ZHANG, YANG, CN

[71] ZTE CORPORATION, CN

[85] 2023-06-08

[86] 2021-04-01 (PCT/CN2021/084992)

[87] (WO2022/205327)

[21] **3,204,862**  
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A23L 27/10 (2016.01) A23L 33/105 (2016.01) A61K 8/11 (2006.01) A61K 8/34 (2006.01) A61K 8/73 (2006.01) A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61K 9/19 (2006.01) A61K 9/51 (2006.01) A61K 31/05 (2006.01) A61K 47/00 (2006.01) A61P 17/00 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING SEA WATER AND CANNABINOID LOADED SUBMICROPARTICLES FOR PHARMACEUTICAL, NUTRACEUTICAL AND COSMETIC APPLICATIONS**

[54] **COMPOSITION COMPORTANT DE L'EAU DE MER ET DES PARTICULES DE L'ORDRE DU SOUS-MICRON CHARGÉES DE CANNABINOÏDE POUR DES APPLICATIONS PHARMACEUTIQUES, NUTRACEUTIQUES ET COSMETIQUES**

[72] GARTZIANDIA LOPEZ DE GOIKOETXEA, OIHANE, ES

[72] ALONSO CARNICERO, JOSE MARIA, ES

[72] PEREZ GONZALEZ, RAUL, ES

[72] MUNOZ MORENTIN, MANUEL, ES

[71] I+MED S. COOP., ES

[85] 2023-06-09

[86] 2021-11-30 (PCT/EP2021/083550)

[87] (WO2022/122471)

[30] EP (20383071.6) 2020-12-09

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[21] **3,204,864**  
[13] A1

[51] **Int.Cl. A01N 43/40 (2006.01) A01P 7/04 (2006.01)**  
[25] EN  
[54] **METHOD OF IMPROVING PLANT GROWTH**  
[54] **PROCEDE D'AMELIORATION DE LA CROISSANCE DE PLANTES**  
[72] NARAYANASAMY, RAJAPANDIAN RAMANATHAN, IN  
[72] NAGANUR, SUNIL, IN  
[72] ANNADURAI, PRABHU, IN  
[71] UPL LIMITED, IN  
[85] 2023-06-08  
[86] 2021-02-11 (PCT/IB2021/051104)  
[87] (WO2021/161201)  
[30] IN (202021006144) 2020-02-12

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[21] **3,204,865**  
[13] A1

[51] **Int.Cl. B22F 10/20 (2021.01) B33Y 70/00 (2020.01) B33Y 40/20 (2020.01) B22F 10/64 (2021.01) C22C 1/04 (2023.01) C22C 21/00 (2006.01)**  
[25] EN  
[54] **NEW POWDER, METHOD FOR ADDITIVE MANUFACTURING OF COMPONENTS MADE FROM THE NEW POWDER AND ARTICLE MADE THEREFROM**  
[54] **NOUVELLE POUDRE, PROCEDE DE FABRICATION ADDITIVE DE COMPOSANTS FAITS DE LA NOUVELLE POUDRE ET ARTICLE FABRIQUE A PARTIR DE CELLE-CI**  
[72] KARIN, FRISK, SE  
[72] BENGTTSSON, SVEN, SE  
[72] NYBORG, LARS, SE  
[72] BHARAT, MEHTA, SE  
[71] HOGANAS AB (PUBL), SE  
[85] 2023-06-09  
[86] 2021-12-06 (PCT/EP2021/084431)  
[87] (WO2022/122670)  
[30] EP (20212934.2) 2020-12-10

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[21] **3,204,867**  
[13] A1

[51] **Int.Cl. E04G 7/30 (2006.01) E04G 7/32 (2006.01) E04G 7/34 (2006.01)**  
[25] EN  
[54] **CONNECTOR FOR A MODULAR SCAFFOLD, MODULAR SCAFFOLD, METHOD OF MANUFACTURING A MODULAR SCAFFOLD AND USE OF A CONNECTOR**  
[54] **COUPLEUR POUR ECHAFAUDAGE MODULAIRE, ECHAFAUDAGE MODULAIRE, PROCEDE DE PRODUCTION D'UN ECHAFAUDAGE MODULAIRE, ET UTILISATION D'UN COUPLEUR**  
[72] STECK, TOBIAS, DE  
[72] SPECHT, RUDOLF, DE  
[71] PERI SE, DE  
[85] 2023-06-09  
[86] 2021-12-13 (PCT/EP2021/085500)  
[87] (WO2022/128923)  
[30] DE (10 2020 133 810.4) 2020-12-16

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[21] **3,204,870**  
[13] A1

[51] **Int.Cl. G02B 6/00 (2006.01) E04G 9/10 (2006.01) E04G 11/08 (2006.01) E04G 11/14 (2006.01) G01B 11/00 (2006.01)**  
[25] EN  
[54] **LIGHT BUS IN BUILDING CONSTRUCTIONS WITH FORMWORK PANELS**  
[54] **BUS POUR SIGNAUX LUMINEUX DANS DES CONSTRUCTIONS DE BATIMENT AYANT DES PANNEAUX DE COFFRAGE**  
[72] JAERLEBERG, MIKAEL, DE  
[71] PERI SE, DE  
[85] 2023-06-09  
[86] 2021-12-10 (PCT/EP2021/085228)  
[87] (WO2022/123028)  
[30] EP (20213491.2) 2020-12-11

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[21] **3,204,871**  
[13] A1

[51] **Int.Cl. A01N 43/40 (2006.01) A01N 25/04 (2006.01) A01N 25/30 (2006.01) A01N 43/56 (2006.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01)**  
[25] EN  
[54] **STORAGE STABLE AQUEOUS SUSPENSION CONCENTRATES**  
[54] **CONCENTRES DE SUSPENSIONS AQUEUSES STABLES AU STOCKAGE**  
[72] KRAUSE, JENS, DE  
[72] PATEL, SMITA, GB  
[72] MATHI, VISWANADH, IN  
[72] PEDNEKAR, SHASHIR, IN  
[72] DESHMUKH, DHIRAJ, IN  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[71] BAYER VAPI PRIVATE LIMITED, IN  
[85] 2023-06-09  
[86] 2021-12-13 (PCT/EP2021/085553)  
[87] (WO2022/128955)  
[30] EP (20213679.2) 2020-12-14

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[21] **3,204,876**  
[13] A1

[51] **Int.Cl. G01G 19/52 (2006.01) A22C 17/00 (2006.01) G01B 11/00 (2006.01) G01B 11/24 (2006.01) G01G 19/414 (2006.01)**  
[25] EN  
[54] **A METHOD AND A SYSTEM FOR DETERMINING A WEIGHT ESTIMATE OF A FOOD ITEM**  
[54] **PROCEDE ET SYSTEME DE DETERMINATION D'UNE ESTIMATION DU POIDS D'UN PRODUIT ALIMENTAIRE**  
[72] KJÆR, ANDERS, DK  
[72] ANDERSEN, MARTIN, DK  
[71] MAREL SALMON A/S, DK  
[85] 2023-06-09  
[86] 2021-12-17 (PCT/EP2021/086605)  
[87] (WO2022/129581)  
[30] EP (20215045.4) 2020-12-17

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[21] **3,204,877**  
[13] A1

[51] **Int.Cl. B60N 2/28 (2006.01)**  
[25] EN  
[54] **CHILD SAFETY SEAT AND SEAT BASE**  
[54] **SIEGE DE SECURITE POUR ENFANT ET BASE DE SIEGE**  
[72] ZHANG, DALIANG, CH  
[71] BAMBINO PREZIOSO SWITZERLAND AG, CH  
[85] 2023-06-09  
[86] 2021-12-10 (PCT/EP2021/085283)  
[87] (WO2022/123048)  
[30] CN (202011441086.3) 2020-12-11

[21] **3,204,880**  
[13] A1

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/28 (2006.01) A24B 15/38 (2006.01)**  
[25] EN  
[54] **A POUCHED PRODUCT FOR ORAL USE COMPRISING A LIQUID PERMEABLE COVER MATERIAL AND A FILLING MATERIAL**  
[54] **PRODUIT EN SACHET A USAGE ORAL COMPRENANT UN MATERIAU DE REVETEMENT PERMEABLE AUX LIQUIDES ET UN MATERIAU DE REMPLISSAGE**  
[72] KINDVALL, MARTEN, SE  
[71] SWEDISH MATCH NORTH EUROPE AB, SE  
[85] 2023-06-09  
[86] 2021-12-21 (PCT/EP2021/086955)  
[87] (WO2022/136353)  
[30] EP (20216468.7) 2020-12-22

[21] **3,204,881**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **DIAGNOSIS OF AUTISM SPECTRUM DISORDER**  
[54] **DIAGNOSTIC DU TROUBLE DU SPECTRE AUTISTIQUE**  
[72] DURHAM, LYNN, CH  
[71] STALICLA SA, CH  
[85] 2023-06-09  
[86] 2021-12-10 (PCT/EP2021/085307)  
[87] (WO2022/123057)  
[30] EP (20213627.1) 2020-12-11

[21] **3,204,882**  
[13] A1

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/28 (2006.01) A24B 15/38 (2006.01)**  
[25] EN  
[54] **A POUCHED PRODUCT FOR ORAL USE**  
[54] **PRODUIT EN SACHET DESTINE A ETRE UTILISE PAR VOIE ORAL**  
[72] KINDVALL, MARTEN, SE  
[71] SWEDISH MATCH NORTH EUROPE AB, SE  
[85] 2023-06-09  
[86] 2021-12-21 (PCT/EP2021/086960)  
[87] (WO2022/136356)  
[30] EP (20216488.5) 2020-12-22

[21] **3,204,883**  
[13] A1

[51] **Int.Cl. C07D 251/06 (2006.01)**  
[25] EN  
[54] **FLOW SYNTHESIS OF RDX**  
[54] **SYNTHESE EN FLUX DE RDX**  
[72] BURN, ANDY, ODEN, GB  
[72] DIDSBURY, MATTHEW PAUL, GB  
[72] KENNEDY, STUART, GB  
[72] KENNEDY, NICOLA, GB  
[72] PATERSON, IAN EWART MURRAY, GB  
[72] JUBB, DANIEL, GB  
[71] BAE SYSTEMS PLC, GB  
[85] 2023-06-09  
[86] 2021-12-01 (PCT/GB2021/053131)  
[87] (WO2022/123216)  
[30] GB (2019393.4) 2020-12-09

[21] **3,204,886**  
[13] A1

[51] **Int.Cl. A24D 1/20 (2020.01) A24D 3/04 (2006.01)**  
[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] HOLFORD, STEVEN, GB  
[72] BAILEY, CHELSEA, GB  
[71] NICOVENTURES TRADING LIMITED, GB  
[85] 2023-06-09  
[86] 2021-12-10 (PCT/GB2021/053236)  
[87] (WO2022/123262)  
[30] GB (2019584.8) 2020-12-11  
[30] GB (2020307.1) 2020-12-21  
[30] GB (2105211.3) 2021-04-12

[21] **3,204,887**  
[13] A1

[51] **Int.Cl. A61K 39/108 (2006.01) A61K 39/02 (2006.01) A61P 1/00 (2006.01) C07K 14/235 (2006.01) C07K 14/245 (2006.01) C12N 1/20 (2006.01)**  
[25] EN  
[54] **HYPER-BLEBBING BACTERIA BACTERIES A HYPER-BOUSSOUFLURE**  
[72] BUCCATO, SCILLA, IT  
[72] GIULIANI, MARIA, IT  
[72] PEZZICOLI, ALFREDO, IT  
[72] SPINSANTI, MARCO, IT  
[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE  
[85] 2023-06-09  
[86] 2021-12-10 (PCT/EP2021/085316)  
[87] (WO2022/123063)  
[30] EP (20213527.3) 2020-12-11

[21] **3,204,890**  
[13] A1

[51] **Int.Cl. A47C 31/12 (2006.01) A47C 1/024 (2006.01) A47C 7/62 (2006.01)**  
[25] EN  
[54] **ADJUSTABLE CHAIR AND ASSOCIATED SYSTEMS, METHODS, DEVICES, AND SOFTWARE**  
[54] **CHAISE REGLABLE ET SYSTEMES, PROCEDES, DISPOSITIFS ET LOGICIEL ASSOCIES**  
[72] GILLSTROM, DIANA, CA  
[72] CHANG, PHILIP MICHAEL, CA  
[72] YI, STEVEN, CA  
[71] STROM ERGONOMICS CORP., CA  
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[51] **Int.Cl. H04L 9/08 (2006.01)**  
[25] EN  
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[54] **DISTRIBUTION DE CLE QUANTIQUE ORCHESTREE**  
[72] MA, DAPHNE, NL  
[72] VAN ESCH, DIMITRI VALERIE, NL  
[72] ROLING, JOHANNES ADRIANUS HENDRIKUS, NL  
[71] ABN AMRO BANK N.V., NL  
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[87] (WO2022/123068)  
[30] NL (2027091) 2020-12-10

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[13] A1

[51] **Int.Cl. E04F 13/08 (2006.01) E04B 1/38 (2006.01) E04B 2/96 (2006.01)**  
[25] EN  
[54] **CURTAIN WALL INSULATION SYSTEM**  
[54] **SYSTEME D'ISOLATION DE MUR-RIDEAU**  
[72] LONG, JACK, US  
[72] OGINO, ANGELA, US  
[72] SZAJNA, MICHAEL, US  
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US  
[85] 2023-06-09  
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[87] (WO2022/146476)  
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[21] **3,204,900**  
[13] A1

[25] EN  
[54] **SYSTEMS AND METHODS FOR PROVIDING CLOUD COMPUTING SEMANTIC LAYER OPERATIONS**  
[54] **SYSTEMES ET PROCEDES DESTINES A FOURNIR DES OPERATIONS DE COUCHE SEMANTIQUE INFORMATIQUE EN NUAGE**  
[72] THUMA, JOHN, US  
[72] NARGASSANS, TIMOTHY CHARLES, US  
[71] FIDELITY INFORMATION SERVICES, LLC, US  
[85] 2023-06-09  
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[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**  
[25] EN  
[54] **DEVICE, SYSTEM, AND METHOD FOR TRANSCATHETER TREATMENT OF VALVULAR REGURGITATION WITH SECONDARY ANCHORS**  
[54] **DISPOSITIF, SYSTEME ET PROCEDE POUR LE TRAITEMENT TRANSCATHETER DE LA REGURGITATION VALVULAIRE AVEC DES ANCRAGES SECONDAIRES**  
[72] KHAIRKHAHAN, ALEXANDER K., US  
[72] ESSINGER, JACQUES, US  
[72] KLENK, ALAN, US  
[71] POLARES MEDICAL INC., US  
[85] 2023-06-09  
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[30] US (17/124,160) 2020-12-16

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[13] A1

[51] **Int.Cl. G06V 10/10 (2022.01) G06T 7/10 (2017.01) G06V 10/20 (2022.01) G06V 10/25 (2022.01) G06V 10/26 (2022.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR IMAGE PROCESSING**  
[54] **PROCEDES ET SYSTEMES DE TRAITEMENT D'IMAGE**  
[72] PERRY, JEFFREY, US  
[72] VOLMAN, VLADISLAV, US  
[71] PROGENITY, INC., US  
[85] 2023-06-09  
[86] 2021-12-07 (PCT/US2021/062225)  
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[13] A1

[51] **Int.Cl. G06N 3/00 (2023.01) G06N 3/04 (2023.01)**  
[25] EN  
[54] **METHODS OF ASSESSING LUNG DISEASE IN CHEST X-RAYS**  
[54] **METHODES D'EVALUATION D'UNE AFFECTION PULMONAIRE DANS DES RADIOGRAPHIES THORACIQUES**  
[72] VLASIMSKY, RICHARD, US  
[71] IMIDEX, INC., US  
[85] 2023-06-09  
[86] 2021-12-08 (PCT/US2021/062373)  
[87] (WO2022/125640)  
[30] US (63/123,183) 2020-12-09

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[13] A1

[51] **Int.Cl. A61K 36/02 (2006.01) A61K 36/68 (2006.01) A61Q 19/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS FOR THE TREATMENT OF SKIN CONDITIONS**  
[54] **COMPOSITIONS DESTINEES AU TRAITEMENT D'AFFECTIONS CUTANEEES**  
[72] PROEHL, GERALD THOMAS, US  
[72] NARDO, CHRISTOPHER JOSEPH, US  
[71] DERMATA THERAPEUTICS, INC., US  
[85] 2023-06-09  
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[51] **Int.Cl. G06F 21/41 (2013.01) G06F 21/32 (2013.01) G06F 21/46 (2013.01) H04L 9/40 (2022.01)**

[25] EN

[54] **ACCESS TO FEDERATED IDENTITIES ON A SHARED KIOSK COMPUTING DEVICE**

[54] **ACCES A DES IDENTITES FEDEREES SUR UN DISPOSITIF INFORMATIQUE DE KIOSQUE PARTAGE**

[72] CHANDRAMOHAN, KAVITHA, US

[72] STOCKMANN, JOHANNES, US

[71] OKTA, INC., US

[85] 2023-06-09

[86] 2021-12-09 (PCT/US2021/062497)

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[13] A1

[51] **Int.Cl. F16L 9/128 (2006.01) B63B 73/72 (2020.01)**

[25] EN

[54] **HIGH PERFORMANCE COMPOSITES FOR UNDERWATER APPLICATIONS**

[54] **COMPOSITES HAUTE PERFORMANCE POUR APPLICATIONS SOUS-MARINES**

[72] MIJARES, ORLANDO L., US

[72] RELLER, DAN L., US

[72] SIDDHAMALLI, SRIDHAR KRISHNAMURTHI, US

[71] RAYTHEON COMPANY, US

[85] 2023-06-09

[86] 2021-12-10 (PCT/US2021/062762)

[87] (WO2022/146655)

[30] US (63/133,521) 2021-01-04

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[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01) H04B 7/212 (2006.01)**

[25] EN

[54] **MULTIMODAL INROUTE TIMING SYNCHRONIZATION SYSTEM**

[54] **SYSTEME DE SYNCHRONISATION DE SYNCHRONISATION D'ITINERAIRE MULTIMODAL**

[72] REGUNATHAN, MURALI, US

[72] WU, ZHENG, US

[72] BORDER, JOHN, US

[71] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2023-07-12

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[21] **3,204,915**  
[13] A1

[51] **Int.Cl. A61B 17/22 (2006.01)**

[25] EN

[54] **LESION CROSSING SHOCK WAVE CATHETER**

[54] **CATHETER A ONDES DE CHOC TRAVERSANT UNE LESION**

[72] PHAN, HUY, US

[72] NGUYEN, HOA, US

[72] LONG, CHI, US

[72] JENKINS, TODD, US

[71] SHOCKWAVE MEDICAL, INC., US

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[86] 2021-12-09 (PCT/US2021/062666)

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[30] US (63/124,639) 2020-12-11

[30] US (17/537,325) 2021-11-29

[21] **3,204,921**  
[13] A1

[51] **Int.Cl. A61K 31/662 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR INHIBITING HAIR GROWTH**

[54] **COMPOSITIONS ET PROCEDES DESTINES A INHIBER LA CROISSANCE PILEUSE**

[72] OLSEN, ELISE A., US

[71] OLSEN, ELISE A., US

[85] 2023-06-09

[86] 2021-12-10 (PCT/US2021/062777)

[87] (WO2022/125876)

[30] US (63/124,503) 2020-12-11

[21] **3,204,964**  
[13] A1

[51] **Int.Cl. G21B 1/11 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR CONTROLLING PLASMA COMPRESSION**

[54] **PROCEDE ET APPAREIL DE COMMANDE DE COMPRESSION DE PLASMA**

[72] LABERGE, MICHEL GEORGES, CA

[72] PLANT, DAVID, CA

[72] SEGAS, RAPHAEL, CA

[72] SMITH, W. RANDOLPH, CA

[71] GENERAL FUSION INC., CA

[85] 2023-07-12

[86] 2021-12-16 (PCT/CA2021/051825)

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[51] **Int.Cl. B32B 27/30 (2006.01) B32B 7/12 (2006.01) C09J 133/10 (2006.01)**

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[54] **ADHESIVE MATERIALS**

[54] **MATERIAUX ADHESIFS**

[72] PRESTON, PAUL, US

[71] PRESTON, PAUL, US

[85] 2023-06-09

[86] 2021-12-09 (PCT/US2021/062669)

[87] (WO2022/125810)

[30] US (63/123,774) 2020-12-10

[21] **3,204,944**  
[13] A1

[51] **Int.Cl. H01M 10/44 (2006.01)**

[25] EN

[54] **SAFE DISCHARGING METHOD FOR WASTE LITHIUM-ION BATTERY**

[54] **PROCEDE DE DECHARGE SURE POUR BATTERIE AU LITHIUM-ION USAGEE**

[72] CHEN, MEIMEI, CN

[71] CHEN, MEIMEI, CN

[85] 2023-07-12

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[25] EN  
[54] **TREATMENT PLANNING FOR ALPHA PARTICLE RADIOTHERAPY**  
[54] **PLANIFICATION DE TRAITEMENT POUR RADIOTHERAPIE A PARTICULES ALPHA**  
[72] KELSON, ITZHAK, IL  
[72] ARAZI, LIOR, IL  
[72] GAT, AMNON, IL  
[72] HEGER, GUY, IL  
[71] ALPHA TAU MEDICAL LTD., IL  
[85] 2023-06-09  
[86] 2021-12-13 (PCT/IB2021/061607)  
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[30] US (17/141,251) 2021-01-05  
[30] US (17/497,937) 2021-10-10

[21] **3,204,986**  
[13] A1

[51] **Int.Cl. A61B 18/08 (2006.01) A61B 18/12 (2006.01)**  
[25] EN  
[54] **E-CUT SEALER-DIVIDER**  
[54] **DISPOSITIF DE SCELLAGE-DIVISEUR A COUPE ELECTRONIQUE**  
[72] SCHMALTZ, DALE, US  
[72] HART, KEIR, US  
[72] HUANG, MIAO, US  
[72] KENNEDY, JENIFER, US  
[72] KRAMER, DODGE, US  
[72] ROSS, DAVID, US  
[72] WARD, ARLEN, US  
[71] BOLDER SURGICAL, LLC, US  
[85] 2023-06-09  
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[21] **3,204,988**  
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01) C07K 14/005 (2006.01) C12N 7/00 (2006.01)**  
[25] EN  
[54] **ADENOVIRAL SEROTYPE 35 HELPER VECTORS**  
[54] **VECTEURS ADENOVIRAUX DE SEROTYPE 35 AUXILIAIRES**  
[72] ROY, SOUMITRA, US  
[71] ENSOMA, INC., US  
[85] 2023-06-09  
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[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/48 (2006.01) A61K 38/00 (2006.01) A61L 27/52 (2006.01) A61L 27/54 (2006.01) C07K 7/06 (2006.01) C08J 3/075 (2006.01)**  
[25] EN  
[54] **CLASS OF BIOMATERIALS FOR PROMOTING LARGE BLOOD VESSEL GROWTH**  
[54] **CLASSE DE BIOMATERIAUX POUR FAVORISER LA CROISSANCE DE VAISSEAUX SANGUINS DE GRANDE TAILLE**  
[72] LIPPMANN, ETHAN S., US  
[72] O'GRADY, BRIAN, US  
[72] FLORIAN, DAVID C., US  
[72] GUELCHER, SCOTT A., US  
[71] VANDERBILT UNIVERSITY, US  
[85] 2023-06-09  
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[30] US (63/127,808) 2020-12-18  
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[30] US (63/244,905) 2021-09-16  
[30] US (63/276,358) 2021-11-05

[21] **3,204,991**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01)**  
[25] EN  
[54] **METHODS OF MANUFACTURING BIOLOGICAL THERAPIES**  
[54] **METHODES D'ELABORATION DE BIOTHERAPIES**  
[72] JOH, NATHAN, US  
[72] JOUBERT, MARISA K., US  
[72] KLEEMANN, GERD RICHARD, US  
[72] TOKUDA, JOSHUA M., US  
[72] RIEDER, NOEL J., US  
[72] NARHI, LINDA OWERS, US  
[72] ZHANG, ZHONGQI, US  
[72] ZHANG, YUNLONG, US  
[71] AMGEN INC., US  
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[86] 2021-12-15 (PCT/US2021/063641)  
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[51] **Int.Cl. G02F 1/1516 (2019.01) H01M 10/0564 (2010.01) H01M 10/0565 (2010.01) H01M 10/10 (2006.01)**  
[25] EN  
[54] **OPTICALLY TRANSPARENT POLYMER ELECTROLYTE FILMS**  
[54] **FILMS D'ELECTROLYTE POLYMERES OPTIQUEMENT TRANSPARENTS**  
[72] UKIDWE, NANDAN, US  
[72] KIDWELL, JAMES, US  
[72] COLLETTE, DAVE, US  
[71] SWM LUXEMBOURG, LU  
[85] 2023-06-09  
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[51] **Int.Cl. H04L 9/06 (2006.01)**  
[25] EN  
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[54] **CIRCUITS CRYPTOGRAPHIQUES INTEGRES DANS DES APPLICATIONS SPATIALES**  
[72] SECILMIS, SECKIN KEMAL, US  
[72] MAHLEN, BRAD, US  
[72] CASTILLO, DYLAN DEL, US  
[72] ZHURAKOVSKYY, NAT, US  
[72] CIRILLO, JESSE, US  
[71] TETHERS UNLIMITED, INC., US  
[85] 2023-06-09  
[86] 2021-12-13 (PCT/US2021/063134)  
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[30] US (63/124,600) 2020-12-11

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[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 39/00 (2006.01) C07K 14/705 (2006.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01) C12N 15/90 (2006.01) A61K 35/17 (2015.01) C07K 14/725 (2006.01) C07K 14/74 (2006.01) C12N 15/10 (2006.01)**  
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[54] **COMPOSITIONS ET PROCEDES POUR REDUIRE LA MHC DE CLASSE II DANS UNE CELLULE**  
[72] SRIDHAR, SRIJANI, US  
[72] ZHANG, YONG, US  
[72] HARRINGTON, WILLIAM FREDERICK, US  
[72] GOEL, SURBHI, US  
[71] INTELLIA THERAPEUTICS, INC., US  
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[87] (WO2022/125982)  
[30] US (63/124,064) 2020-12-11  
[30] US (63/130,106) 2020-12-23

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[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 21/00 (2006.01) G01N 21/77 (2006.01) H01L 27/146 (2006.01) H01L 27/148 (2006.01)**  
[25] EN  
[54] **INTEGRATED CIRCUIT WITH IMPROVED CHARGE TRANSFER EFFICIENCY AND ASSOCIATED TECHNIQUES**  
[54] **CIRCUIT INTEGRE A EFFICACITE AMELIOREE DE TRANSFERT DE CHARGES ET TECHNIQUES ASSOCIEES**  
[72] WEBSTER, ERIC A.G., US  
[71] QUANTUM-SI INCORPORATED, US  
[85] 2023-06-09  
[86] 2021-12-10 (PCT/US2021/062929)  
[87] (WO2022/125973)  
[30] US (63/124,655) 2020-12-11

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[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) A61K 9/127 (2006.01) A61K 31/7088 (2006.01) C12N 9/78 (2006.01) C12N 15/10 (2006.01) C12N 15/62 (2006.01)**  
[25] EN  
[54] **POLYNUCLEOTIDES, COMPOSITIONS, AND METHODS FOR GENOME EDITING INVOLVING DEAMINATION**  
[54] **POLYNUCLEOTIDES, COMPOSITIONS ET METHODES D'EDITION GENOMIQUE PAR DESAMINATION**  
[72] DOMBROWSKI, CHRISTIAN, US  
[72] HARRINGTON, WILLIAM FREDERICK, US  
[72] OLIVEIRA, RUAN, US  
[71] INTELLIA THERAPEUTICS, INC., US  
[85] 2023-06-09  
[86] 2021-12-10 (PCT/US2021/062922)  
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[30] US (63/124,060) 2020-12-11  
[30] US (63/130,104) 2020-12-23  
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[30] US (63/275,424) 2021-11-03

[21] **3,205,001**  
[13] A1

[51] **Int.Cl. A47B 81/00 (2006.01) A61L 2/10 (2006.01) A62C 2/06 (2006.01) B25H 3/02 (2006.01) E05G 1/00 (2006.01)**  
[25] EN  
[54] **SAFETY CABINET WITH ILLUMINATION SYSTEM**  
[54] **ARMOIRE DE SECURITE DOTEES D'UN SYSTEME D'ECLAIRAGE**  
[72] NATH, KESHAR, US  
[72] GODDARD, MARK, US  
[71] JUSTRITE MANUFACTURING COMPANY LLC, US  
[85] 2023-06-12  
[86] 2021-11-09 (PCT/US2021/058594)  
[87] (WO2022/099188)  
[30] US (63/111,609) 2020-11-09  
[30] US (17/170,180) 2021-02-08

[21] **3,205,002**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR SINGLE CG-BASED UPLINK TRANSMISSION IN MULTI-TRP OPERATION**  
[54] **PROCEDE ET SYSTEME DE TRANSMISSION EN LIAISON MONTANTE A BASE DE CG UNIQUE DANS UN FONCTIONNEMENT MULTI-TRP**  
[72] ZHANG, YANG, CN  
[72] JIANG, CHUANGXIN, CN  
[72] ZHANG, SHUJUAN, CN  
[72] WU, HAO, CN  
[72] LU, ZHAOHUA, CN  
[71] ZTE CORPORATION, CN  
[85] 2023-06-12  
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[87] (WO2022/205422)

[21] **3,205,003**  
[13] A1

[51] **Int.Cl. B25D 1/04 (2006.01) B25D 1/00 (2006.01)**  
[25] EN  
[54] **HAMMER WITH LINEARLY ADJUSTABLE CLAW**  
[54] **MARTEAU A GRIFFE A REGLAGE LINEAIRE**  
[72] SMITH, SCOTT L., US  
[71] SMITH, SCOTT L., US  
[85] 2023-06-13  
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[21] <b>3,205,005</b> [13] A1	[21] <b>3,205,007</b> [13] A1	[21] <b>3,205,008</b> [13] A1
[51] <b>Int.Cl. A61K 31/235 (2006.01)</b> [25] EN [54] <b>ADMINISTRATION OF GLYCEROL TRIBENZOATE AND GLYCEROL PHENYLBUTYRATE FOR TREATMENT OF NEURODEGENERATIVE AND UREA CYCLE DISORDERS</b> [54] <b>ADMINISTRATION DE TRIBENZOATE DE GLYCEROL ET DE PHENYLBUTYRATE DE GLYCEROL POUR LE TRAITEMENT DE TROUBLES DU CYCLE NEURODEGENERATIF ET DE L'UREE</b> [72] PAHAN, KALIPADA, US [71] RUSH UNIVERSITY MEDICAL CENTER, US [85] 2023-06-12 [86] 2021-12-15 (PCT/US2021/063506) [87] (WO2022/132894) [30] US (63/126,346) 2020-12-16	[51] <b>Int.Cl. C07K 16/40 (2006.01) A61P 35/00 (2006.01)</b> [25] EN [54] <b>GUCY2C BINDING MOLECULES AND USES THEREOF</b> [54] <b>MOLECULES DE LIAISON A GUCY2C ET LEURS UTILISATIONS</b> [72] HE, LING, CN [72] WANG, LIN, CN [72] WANG, WEI, CN [71] PARASOL BIOTECH LTD., CN [85] 2023-06-12 [86] 2021-12-16 (PCT/CN2021/138845) [87] (WO2022/127871) [30] CN (PCT/CN2020/137164) 2020-12-17	[51] <b>Int.Cl. A61K 31/416 (2006.01) A61K 31/497 (2006.01) A61P 35/00 (2006.01) C07D 403/14 (2006.01)</b> [25] EN [54] <b>PHARMACEUTICAL COMBINATIONS COMPRISING A KRAS G12C INHIBITOR AND USES OF A KRAS G12C INHIBITOR FOR THE TREATMENT OF CANCERS</b> [54] <b>COMBINAISONS PHARMACEUTIQUES COMPRENANT UN INHIBITEUR DE KRAS G12C ET UTILISATIONS D'UN INHIBITEUR DE KRAS G12C POUR LE TRAITEMENT DE CANCERS</b> [72] LIU, BO, CN [72] ASKOXYLAKIS, VASILEIOS, US [72] BRACHMANN, SASKIA MARIA, CH [72] COTESTA, SIMONA, CH [72] CUI, XIAOMING, US [72] ENGELMAN, JEFFREY, US [72] FARAGO, ANNA, US [72] GERSPACHER, MARC, CH [72] GRAUS PORTA, DIANA, CH [72] LEBLANC, CATHERINE, CH [72] LORTHIOIS, EDWIGE LILIANE JEANNE, CH [72] MACHAUER, RAINER, CH [72] MAH, ROBERT, CH [72] MURA, CHRISTOPHE, CH [72] RIGOLLIER, PASCAL, CH [72] SCHNEIDER, NADINE, CH [72] STUTZ, STEFAN, CH [72] VAUPEL, ANDREA, CH [72] WARIN, NICOLAS, CH [72] WEISS, ANDREAS, CH [72] WILCKEN, RAINER, CH [72] YERRAMILI-RAO, PADMAJA, US [71] NOVARTIS AG, CH [85] 2023-06-12 [86] 2021-12-20 (PCT/CN2021/139694) [87] (WO2022/135346) [30] CN (PCT/CN2020/138339) 2020-12-22 [30] CN (PCT/CN2021/101546) 2021-06-22 [30] CN (PCT/CN2021/115387) 2021-08-30
[21] <b>3,205,006</b> [13] A1		
[51] <b>Int.Cl. C07K 16/24 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01) C07K 16/28 (2006.01) G01N 33/564 (2006.01) G01N 33/68 (2006.01)</b> [25] EN [54] <b>ANTIBODY VARIABLE DOMAINS THAT BIND IL-4R</b> [54] <b>DOMAINES VARIABLES D'ANTICORPS SE LIANT A IL-4R</b> [72] TIETZ, JULIA, CH [72] GUNDE, TEA, CH [72] JOHANSSON, MARIA, CH [72] WARMUTH, STEFAN, CH [72] SIMONIN, ALEXANDRE, FR [72] HESS, CHRISTIAN, CH [71] NUMAB THERAPEUTICS AG, CH [85] 2023-06-12 [86] 2021-12-23 (PCT/EP2021/087576) [87] (WO2022/136675) [30] EP (20216928.0) 2020-12-23 [30] EP (20216938.9) 2020-12-23 [30] EP (20216957.9) 2020-12-23		



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[21] **3,205,010**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/00 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **ANTIBODY VARIABLE DOMAINS AND ANTIBODIES HAVING DECREASED IMMUNOGENICITY**

[54] **DOMAINES VARIABLES D'ANTICORPS ET ANTICORPS AYANT UNE IMMUNOGENICITE REDUITE**

[72] JOHANSSON, MARIA, CH  
[72] TIETZ, JULIA, CH  
[72] WARMUTH, STEFAN, CH  
[72] BROCK, MATTHIAS, CH  
[71] NUMAB THERAPEUTICS AG, CH  
[85] 2023-06-12  
[86] 2021-12-23 (PCT/EP2021/087618)  
[87] (WO2022/136693)  
[30] EP (20216957.9) 2020-12-23  
[30] EP (21154786.4) 2021-02-02  
[30] EP (PCT/EP2021/064427) 2021-05-28

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[21] **3,205,012**  
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01) G06F 21/33 (2013.01) H04L 9/32 (2006.01) G05B 19/418 (2006.01)**

[25] EN

[54] **METHOD AND CORRESPONDING SYSTEM FOR CONTROLLING SECURE EXECUTION OF OPERATIONS BY INTERCONNECTED DEVICES**

[54] **PROCEDE ET SYSTEME CORRESPONDANT POUR COMMANDER UNE EXECUTION SECURISEE D'OPERATIONS PAR DES DISPOSITIFS INTERCONNECTES**

[72] DE FEO, OSCAR, CH  
[72] SIRIGU, LORENZO, CH  
[71] SICPA HOLDING SA, CH  
[85] 2023-06-12  
[86] 2021-12-16 (PCT/EP2021/025509)  
[87] (WO2022/128160)  
[30] EP (20215163.5) 2020-12-17

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[21] **3,205,013**  
[13] A1

[51] **Int.Cl. C07C 319/08 (2006.01) C07C 319/28 (2006.01) C07C 321/04 (2006.01)**

[25] FR

[54] **METHOD FOR DRYING METHYL MERCAPTAN BY MEANS OF AZEOTROPIC DISTILLATION**

[54] **PROCEDE DE SECHAGE DU METHYLMERCAPTAN PAR DISTILLATION AZEOTROPIQUE**

[72] FREMY, GEORGES, FR  
[72] RAYMOND, JEAN-MICHEL, FR  
[71] ARKEMA FRANCE, FR  
[85] 2023-06-12  
[86] 2021-12-16 (PCT/FR2021/052364)  
[87] (WO2022/129801)  
[30] FR (FR2013436) 2020-12-17

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[21] **3,205,014**  
[13] A1

[51] **Int.Cl. C07C 319/08 (2006.01) C07C 319/28 (2006.01) C07C 321/04 (2006.01)**

[25] FR

[54] **METHOD FOR PREPARING METHYL MERCAPTAN WITH TREATMENT OF GASEOUS WASTE**

[54] **PROCEDE DE PREPARATION DE METHYLMERCAPTAN AVEC TRAITEMENT DES REJETS GAZEUX**

[72] FREMY, GEORGES, FR  
[72] RAYMOND, JEAN-MICHEL, FR  
[72] LAMANT, ERIC, FR  
[71] ARKEMA FRANCE, FR  
[85] 2023-06-12  
[86] 2021-12-16 (PCT/FR2021/052365)  
[87] (WO2022/129802)  
[30] FR (FR2013438) 2020-12-17

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[21] **3,205,015**  
[13] A1

[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/5365 (2006.01) A61P 17/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **H4 ANTAGONIST COMPOUNDS**

[54] **COMPOSES ANTAGONISTES DE H4**

[72] BROWN, GILES ALBERT, GB  
[72] CONGREVE, MILES STUART, GB  
[72] TEOBALD, BARRY, GB  
[72] SWAIN, NIGEL ALAN, GB  
[72] FIELDHOUSE, CHARLOTTE, GB  
[72] PICKWORTH, MARK, GB  
[72] BAYRAKDARIAN, MALKEN, CA  
[72] KARILA, DELPHINE, CA  
[72] BEAUDION, DANIEL, CA  
[71] HEPTARES THERAPEUTICS LIMITED, GB  
[85] 2023-06-12  
[86] 2021-12-14 (PCT/GB2021/053286)  
[87] (WO2022/129890)  
[30] GB (2019667.1) 2020-12-14

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[21] **3,205,016**  
[13] A1

[51] **Int.Cl. C07C 69/675 (2006.01) C08J 3/20 (2006.01) C08K 5/11 (2006.01) C08L 27/06 (2006.01)**

[25] EN

[54] **CHEMICAL ADDITIVES AND THEIR USE THEREOF FOR MODIFYING MECHANICAL PROPERTIES OF PVC AND PREVENTING THE FORMATION OF SURFACE DEFECTS DURING PVC CALENDERING**

[54] **ADDITIFS CHIMIQUES ET LEUR UTILISATION DANS LE BUT DE MODIFIER LES PROPRIETES MECANIQUES DU PVC ET D'EMPECHER LA FORMATION DE DEFAUTS DE SURFACE PENDANT LE CALANDRAGE DU PVC**

[72] LEASK, RICHARD, CA  
[72] JAMARANI, ROYA, CA  
[72] VALDEZ, OMAR GARCIA, CA  
[72] NICELL, JIM A., CA  
[72] MARIC, MILAN, CA  
[72] HALLORAN, MATTHEW, CA  
[72] PANCHAL, KUSHA, CA  
[72] MAFI, ROOZBEH, CA  
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY, CA

[85] 2023-06-13  
[86] 2021-12-16 (PCT/CA2021/051815)  
[87] (WO2022/126268)  
[30] US (63/126,937) 2020-12-17  
[30] US (63/192,738) 2021-05-25

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[21] **3,205,017**  
[13] A1

[51] **Int.Cl. A47J 31/20 (2006.01)**

[25] EN

[54] **FILTER DEVICE FOR FILTERING INSOLUBLE MATERIAL**

[54] **DISPOSITIF DE FILTRATION POUR FILTRER UNE MATIERE INSOLUBLE**

[72] BODUM, JORGEN, CH  
[71] PI-DESIGN AG, CH

[85] 2023-06-12  
[86] 2021-12-06 (PCT/EP2021/084414)  
[87] (WO2022/122660)  
[30] DE (10 2020 133 229.7) 2020-12-11

[21] **3,205,019**  
[13] A1

[51] **Int.Cl. B03D 1/02 (2006.01) B02C 23/02 (2006.01) B03D 1/08 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR SEPARATING VALUABLE MINERALS FROM ORE**

[54] **PROCEDE ET APPAREIL DE SEPARATION DE MINERAUX DE VALEUR DU MINERAI**

[72] KUOPANPORTTI, HANNU, FI  
[72] LINNANEN, TEIJO, FI  
[71] KAAKKOIS-SUOMEN AMMATTIKORKEAKOULU OY, FI

[85] 2023-06-12  
[86] 2021-12-13 (PCT/IB2021/061629)  
[87] (WO2022/130168)  
[30] FI (20206294) 2020-12-14

[21] **3,205,020**  
[13] A1

[51] **Int.Cl. C07D 403/04 (2006.01) A61K 31/4184 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **BENZIMIDAZOLE DERIVATIVES AND THEIR USE AS INHIBITORS OF ITK FOR THE TREATMENT OF SKIN DISEASE**

[54] **DERIVES DE BENZIMIDAZOLE ET LEUR UTILISATION EN TANT QU'INHIBITEURS D'ITK POUR LE TRAITEMENT D'UNE MALADIE DE LA PEAU**

[72] BAGLEY, SCOTT WILLIAM, US  
[72] CASIMIRO-GARCIA, AGUSTIN, US  
[72] DAVOREN, JENNIFER ELIZABETH, US

[72] DENNY, RAJIAH ALDRIN, US  
[72] GERSTENBERGER, BRIAN STEPHEN, US

[72] LOVERING, FRANK ELDRIDGE, US  
[72] PARIKH, MIHIR DINESHKUMAR, US

[72] STROHBACH, JOSEPH WALTER, US  
[72] TRUJILLO, JOHN ISIDRO, US  
[71] PFIZER INC., US

[85] 2023-06-12  
[86] 2021-12-13 (PCT/IB2021/061638)  
[87] (WO2022/130171)  
[30] US (63/125,650) 2020-12-15

[21] **3,205,021**  
[13] A1

[51] **Int.Cl. C07D 403/06 (2006.01) A61K 31/496 (2006.01) A61P 19/00 (2006.01)**

[25] EN

[54] **SOLID FORMS OF (5S)-CYCLOPROPYL-5-[3-[(3S)-4-(3,5-DIFLUOROPHENYL)-3-METHYL-PIPERAZIN-1-YL]-3-OXOPROPYL]IMIDAZOLIDINE-2,4-DIONE**

[54] **FORMES SOLIDES DE (5S)-CYCLOPROPYL-5-[3-[(3S)-4-(3,5-DIFLUOROPHENYL)-3-METHYL-PIPERAZIN-1-YL]-3-OXOPROPYL]IMIDAZOLIDINE-2,4-DIONE**

[72] LEPINE, RENAUD HENRI MARCEL, FR  
[72] SCHILS, DIDIER PHILIPPE ROBERT, BE

[72] CORVELEYN, SAM BOB, BE  
[72] LYNCH, MICHAEL ANTHONY, FR  
[72] LEBLANC, NICOLAS VALENTIN, FR

[72] DULOS, GRADUS JOHANNES, NL  
[71] GALAPAGOS NV, BE

[85] 2023-06-12  
[86] 2021-12-13 (PCT/EP2021/085376)  
[87] (WO2022/128849)  
[30] EP (20306578.4) 2020-12-15  
[30] EP (21170505.8) 2021-04-26

[21] **3,205,022**  
[13] A1

[51] **Int.Cl. H04W 72/04 (2023.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR BLIND DETECTION**

[54] **SYSTEME ET PROCEDE DE DETECTION A L'AVEUGLE**

[72] PAN, YU, CN  
[72] JIANG, CHUANGXIN, CN  
[72] ZHANG, SHUJUAN, CN  
[72] LU, ZHAOHUA, CN  
[71] ZTE CORPORATION, CN

[85] 2023-06-13  
[86] 2020-12-14 (PCT/CN2020/136088)  
[87] (WO2022/126311)

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[21] <b>3,205,023</b> [13] A1	[21] <b>3,205,024</b> [13] A1	[21] <b>3,205,027</b> [13] A1
[51] <b>Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 17/00 (2006.01)</b>	[51] <b>Int.Cl. C07D 403/04 (2006.01) C07C 209/00 (2006.01) C07D 237/24 (2006.01)</b>	[51] <b>Int.Cl. A61K 39/395 (2006.01) C07K 16/24 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>PYRIDO[2,3-D]IMIDAZOLE DERIVATIVES AND THEIR USE AS INHIBITORS OF ITK FOR THE TREATMENT OF SKIN DISEASE</b>	[54] <b>A PROCESS FOR THE PREPARATION OF N-(BIS(4-METHOXYPHENYL)METHYL)-6-OXO-2-(PYRIDAZIN-3-YL)-1,6-DIHYDROPYRIMIDINE-5-CARBOXAMIDE</b>	[54] <b>ANTI-TNF ANTIBODIES, COMPOSITIONS, AND METHODS FOR THE TREATMENT OF ACTIVE ANKYLOSING SPONDYLITIS</b>
[54] <b>DERIVES DE PYRIDO[2,3-D]IMIDAZOLE ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE L'ITK POUR LE TRAITEMENT D'UNE MALADIE DE LA PEAU</b>	[54] <b>PROCEDE DE PREPARATION DE N-(BIS(4-METHOXYPHENYL)METHYL)-6-OXO-2-(PYRIDAZIN-3-YL)-1,6-DIHYDROPYRIMIDINE-5-CARBOXAMIDE</b>	[54] <b>ANTICORPS ANTI-TNF, COMPOSITIONS ET METHODES POUR LE TRAITEMENT DE LA SPONDYLARTHRITE ANKYLOSANTE ACTIVE</b>
[72] BAGLEY, SCOTT WILLIAM, US	[72] CHASSAING, CHRISTOPHE PIERRE ALAIN, DE	[72] HARRISON, DIANE D., US
[72] CASIMIRO-GARCIA, AGUSTIN, US	[72] SALANTA, DANIEL, DE	[72] HSIA, ELIZABETH C., US
[72] DAVOREN, JENNIFER ELIZABETH, US	[71] INTERVET INTERNATIONAL B.V., NL	[72] KIM, LEE-LIAN, US
[72] DENNY, RAJIAH ALDRIN, US	[85] 2023-06-12	[72] LO, KIM HUNG, US
[72] GERSTENBERGER, BRIAN STEPHEN, US	[86] 2021-12-20 (PCT/EP2021/086686)	[71] JANSSEN BIOTECH, INC., US
[72] LEE, KATHERINE LIN, US	[87] (WO2022/136206)	[85] 2023-06-12
[72] LOVERING, FRANK ELDRIDGE, US	[30] EP (20215933.1) 2020-12-21	[86] 2021-12-16 (PCT/IB2021/061863)
[72] PARIKH, MIHIR DINESHKUMAR, US		[87] (WO2022/130281)
[72] STROHBACH, JOSEPH WALTER, US		[30] US (63/126,638) 2020-12-17
[72] TRUJILLO, JOHN ISIDRO, US		[30] US (63/140,307) 2021-01-22
[71] PFIZER INC., US		
[85] 2023-06-12		
[86] 2021-12-13 (PCT/IB2021/061645)	[21] <b>3,205,025</b> [13] A1	[21] <b>3,205,028</b> [13] A1
[87] (WO2022/130175)	[51] <b>Int.Cl. D21H 11/18 (2006.01) B32B 7/12 (2006.01) B32B 37/12 (2006.01) C08J 5/18 (2006.01) C09J 5/04 (2006.01) D21H 27/32 (2006.01) B32B 9/06 (2006.01) B32B 27/10 (2006.01) C09J 123/04 (2006.01) C09J 125/04 (2006.01) C09J 127/06 (2006.01) C09J 131/04 (2006.01) C09J 133/04 (2006.01) D21H 27/30 (2006.01) D21H 27/34 (2006.01)</b>	[51] <b>Int.Cl. A61N 2/04 (2006.01) A61N 2/02 (2006.01)</b>
[30] US (63/125,671) 2020-12-15	[25] EN	[25] EN
	[54] <b>LAMINATES</b>	[54] <b>ELECTRIC AND MAGNETIC NEUROMODULATION</b>
	[54] <b>STRATIFIES</b>	[54] <b>NEUROMODULATION ELECTRIQUE ET MAGNETIQUE</b>
	[72] BACKFOLK, KAJ, FI	[72] JIN, DEREK H., US
	[72] HEISKANEN, ISTO, FI	[72] HO, CONWAY, US
	[72] KANKKUNEN, JUKKA, FI	[71] VENITAS RESEARCH CENTER, INC., CN
	[72] NYBERG ZETTERLUND, ANNA, SE	[85] 2023-06-09
	[71] STORA ENSO OYJ, FI	[86] 2022-08-27 (PCT/IB2022/000497)
	[85] 2023-06-12	[87] (WO2023/031669)
	[86] 2021-12-14 (PCT/IB2021/061694)	[30] US (63/238,218) 2021-08-29
	[87] (WO2022/137016)	
	[30] SE (2051536-7) 2020-12-22	

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[21] **3,205,030**  
[13] A1

[51] **Int.Cl. A61L 9/014 (2006.01) A61L 9/16 (2006.01) B01D 39/16 (2006.01) B01D 46/00 (2022.01) B01D 46/42 (2006.01) B01D 46/44 (2006.01) B01D 46/50 (2006.01) H05B 1/02 (2006.01) H05B 3/12 (2006.01)**

[25] EN  
[54] **DETOXIFICATION DEVICE HAVING HEATED FILTER FOR KILLING PATHOGENS**  
[54] **DISPOSITIF DE DETOXICATION COMPORTANT UN FILTRE CHAUFFE DESTINE A TUER DES AGENTS PATHOGENES**

[72] HOURANI, MONZER A., US  
[72] REN, ZHIFENG, US  
[72] YU, LUO, US  
[71] UNIVERSITY OF HOUSTON SYSTEM, US  
[85] 2023-06-12  
[86] 2021-12-07 (PCT/US2021/062204)  
[87] (WO2022/125546)  
[30] US (17/118,379) 2020-12-10

[21] **3,205,031**  
[13] A1

[51] **Int.Cl. G01C 15/00 (2006.01) G01C 25/00 (2006.01)**

[25] EN  
[54] **METHOD AND LASER TRACKING SYSTEM FOR USING LASER LEVEL TO TRACK DETECTOR**  
[54] **PROCEDE DE POURSUITE D'UN DETECTEUR AU MOYEN D'UN INSTRUMENT DE NIVELLEMENT LASER, ET SYSTEME DE POURSUITE LASER**

[72] WANG, WEICHEN, CN  
[72] SHI, XIN, CN  
[72] XING, DAVID, US  
[71] NORTHWEST INSTRUMENT INC., US  
[85] 2023-06-13  
[86] 2021-07-06 (PCT/CN2021/104740)  
[87] (WO2022/142247)  
[30] CN (202011617437.1) 2020-12-31

[21] **3,205,032**  
[13] A1

[51] **Int.Cl. H04N 7/15 (2006.01) H04L 67/00 (2022.01) H04M 3/56 (2006.01)**

[25] EN  
[54] **TELECONFERENCE SYSTEM, COMMUNICATION TERMINAL, AND TELECONFERENCE METHOD**  
[54] **SYSTEME DE TELECONFERENCE, TERMINAL DE COMMUNICATION, PROCEDE DE TELECONFERENCE ET PROGRAMME**

[72] TERATA, MAYUKO, JP  
[71] NEC PLATFORMS, LTD., JP  
[85] 2023-06-09  
[86] 2021-11-18 (PCT/JP2021/042429)  
[87] (WO2022/124040)  
[30] JP (2020-205681) 2020-12-11

[21] **3,205,034**  
[13] A1

[51] **Int.Cl. B32B 27/30 (2006.01) B32B 27/36 (2006.01) B41J 2/01 (2006.01) B41M 1/04 (2006.01) B41M 1/36 (2006.01) B41M 5/52 (2006.01) C08F 18/08 (2006.01)**

[25] EN  
[54] **FLEXOGRAPHICALLY-PRINTABLE, FULL-COLOR-INKJET-RECEPTIVE TOPCOAT FORMULA AND ARTICLE**  
[54] **FORMULE ET ARTICLE DE COUCHE DE FINITION RECEPTRICE DE JET D'ENCRE DE COULEURS POUVANT ETRE IMPRIMEE PAR FLEXOGRAPHIE**

[72] ADKINS, BRANDON J., US  
[72] SHAY, TIMOTHY W., US  
[72] FRALEIGH, BRIAN J., US  
[71] BRADY WORLDWIDE, INC., US  
[85] 2023-06-12  
[86] 2021-12-09 (PCT/US2021/062547)  
[87] (WO2022/140066)  
[30] US (63/128,470) 2020-12-21

[21] **3,205,036**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61P 17/04 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01)**

[25] EN  
[54] **MULTISPECIFIC ANTIBODIES HAVING SPECIFICITY FOR IL-4R AND IL-31**  
[54] **ANTICORPS MULTISPECIFIQUES AYANT UNE SPECIFICITE POUR IL-4R ET IL-31**

[72] TIETZ, JULIA, CH  
[72] GUNDE, TEA, CH  
[72] JOHANSSON, MARIA, CH  
[72] WARMUTH, STEFAN, CH  
[72] SIMONIN, ALEXANDRE, FR  
[72] HESS, CHRISTIAN, CH  
[72] SHIRAIISHI, NORIKO, JP  
[72] ARAKAWA, YOSHIO, JP  
[72] MIYAKE, YOSHIHIDE, JP  
[71] NUMAB THERAPEUTICS AG, CH  
[85] 2023-06-12  
[86] 2021-12-23 (PCT/EP2021/087561)  
[87] (WO2022/136669)  
[30] EP (20216957.9) 2020-12-23

[21] **3,205,035**  
[13] A1

[51] **Int.Cl. A61L 2/02 (2006.01) A01P 1/00 (2006.01) B01J 3/00 (2006.01) B01J 8/20 (2006.01)**

[25] EN  
[54] **HIGH PRESSURE-PROCESSED ARCHITECTURAL COATING COMPOSITIONS AND METHODS FOR HIGH PRESSURE-PROCESSING OF ARCHITECTURAL COATING COMPOSITIONS**  
[54] **COMPOSITIONS DE REVETEMENT ARCHITECTURALES TRAITÉES A HAUTE PRESSION ET PROCÉDES DE TRAITEMENT HAUTE PRESSION DE COMPOSITIONS DE REVETEMENT ARCHITECTURALES**

[72] GEURTSEN, RICHARD, US  
[71] BENJAMIN MOORE & CO., US  
[85] 2023-06-12  
[86] 2021-12-14 (PCT/US2021/063275)  
[87] (WO2022/146671)  
[30] US (63/132,814) 2020-12-31

[21] **3,205,036**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61P 17/04 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01)**

[25] EN  
[54] **MULTISPECIFIC ANTIBODIES HAVING SPECIFICITY FOR IL-4R AND IL-31**  
[54] **ANTICORPS MULTISPECIFIQUES AYANT UNE SPECIFICITE POUR IL-4R ET IL-31**

[72] TIETZ, JULIA, CH  
[72] GUNDE, TEA, CH  
[72] JOHANSSON, MARIA, CH  
[72] WARMUTH, STEFAN, CH  
[72] SIMONIN, ALEXANDRE, FR  
[72] HESS, CHRISTIAN, CH  
[72] SHIRAIISHI, NORIKO, JP  
[72] ARAKAWA, YOSHIO, JP  
[72] MIYAKE, YOSHIHIDE, JP  
[71] NUMAB THERAPEUTICS AG, CH  
[85] 2023-06-12  
[86] 2021-12-23 (PCT/EP2021/087561)  
[87] (WO2022/136669)  
[30] EP (20216957.9) 2020-12-23

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[21] **3,205,037**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61P 17/04 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTIBODY VARIABLE DOMAINS THAT BIND IL-31**

[54] **DOMAINES VARIABLES D'ANTICORPS SE LIANT A IL-31**

[72] TIETZ, JULIA, CH  
[72] GUNDE, TEA, CH  
[72] JOHANSSON, MARIA, CH  
[72] WARMUTH, STEFAN, CH  
[72] SIMONIN, ALEXANDRE, FR  
[72] HESS, CHRISTIAN, CH  
[71] NUMAB THERAPEUTICS AG, CH  
[85] 2023-06-12  
[86] 2021-12-23 (PCT/EP2021/087568)  
[87] (WO2022/136672)  
[30] EP (20216938.9) 2020-12-23  
[30] EP (20216957.9) 2020-12-23  
[30] EP (20216928.0) 2020-12-23

[21] **3,205,038**  
[13] A1

[51] **Int.Cl. G02B 21/06 (2006.01) G01N 21/64 (2006.01) G02B 21/02 (2006.01) G02B 21/04 (2006.01) G02B 26/10 (2006.01)**

[25] EN

[54] **POINT-OF-CARE MICROSCOPE FOR REAL-TIME ACQUISITION OF VOLUMETRIC HISTOLOGICAL IMAGES IN VIVO**

[54] **MICROSCOPE POUR LIEU DE SOINS POUR L'ACQUISITION EN TEMPS REEL D'IMAGES HISTOLOGIQUES VOLUMETRIQUES IN VIVO**

[72] HILLMAN, ELIZABETH M.C., US  
[72] PATEL, KRIPA B., US  
[72] LIANG, WENXUAN, US  
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US  
[85] 2023-06-12  
[86] 2021-12-15 (PCT/US2021/063500)  
[87] (WO2022/132889)  
[30] US (63/125,817) 2020-12-15

[21] **3,205,039**  
[13] A1

[51] **Int.Cl. G01C 25/00 (2006.01) G01C 15/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR CALIBRATING LASER LEVEL**

[54] **PROCEDE ET SYSTEME D'ETALONNAGE D'UN DISPOSITIF DE BALAYAGE LASER**

[72] WANG, WEICHEN, CN  
[72] SHI, XIN, CN  
[72] XING, DAVID, US  
[71] NORTHWEST INSTRUMENT INC., US  
[85] 2023-06-13  
[86] 2021-07-06 (PCT/CN2021/104743)  
[87] (WO2022/142248)  
[30] CN (202011622102.9) 2020-12-31

[21] **3,205,040**  
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01)**

[25] EN

[54] **COMPOUNDS AND METHODS FOR MODULATING FACTOR XII**

[54] **COMPOSES ET METHODES POUR MODULER LE FACTEUR XII**

[72] FREIER, SUSAN M., US  
[72] BUI, HUYNH-HOA, US  
[72] ZHAO, CHENGUANG, US  
[72] MONIA, BRETT P., US  
[72] CROSBY, JEFFREY R., US  
[71] IONIS PHARMACEUTICALS, INC., US  
[85] 2023-06-12  
[86] 2021-12-17 (PCT/US2021/064145)  
[87] (WO2022/133278)  
[30] US (63/127,616) 2020-12-18

[21] **3,205,042**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 39/00 (2006.01) C12N 9/22 (2006.01) A61K 35/17 (2015.01) C07K 14/725 (2006.01) C07K 14/74 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR GENETICALLY MODIFYING CIITA IN A CELL**

[54] **COMPOSITIONS ET PROCEDES POUR MODIFIER GENETIQUEMENT LE CIITA DANS UNE CELLULE**

[72] HARRINGTON, WILLIAM FREDERICK, US  
[72] GOEL, SURBHI, US  
[71] INTELLIA THERAPEUTICS, INC., US  
[85] 2023-06-12  
[86] 2021-12-22 (PCT/US2021/064933)  
[87] (WO2022/140587)  
[30] US (63/130,098) 2020-12-23  
[30] US (63/251,002) 2021-09-30  
[30] US (63/254,971) 2021-10-12  
[30] US (63/288,502) 2021-12-10

[21] **3,205,043**  
[13] A1

[51] **Int.Cl. F16F 7/10 (2006.01) F16F 6/00 (2006.01) F16F 7/104 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN AND RELATING TO VIBRATION CONTROL SYSTEMS**

[54] **AMELIORATIONS RELATIVES A DES SYSTEMES DE COMMANDE DE VIBRATION**

[72] SHARKH, SULEIMAN MAHMOUD, GB  
[72] DALEY, STEPHEN, GB  
[72] HENDIJANIZADEH, MEHDI, GB  
[71] BAE SYSTEMS PLC, GB  
[85] 2023-06-13  
[86] 2021-12-06 (PCT/GB2021/053179)  
[87] (WO2022/129864)  
[30] GB (2019758.8) 2020-12-15  
[30] EP (20275181.4) 2020-12-15

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[21] **3,205,044**  
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 31/4709 (2006.01) A61K 31/472 (2006.01) A61K 31/496 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **EXO VII INHIBITOR AND QUINOLONE ANTIBIOTIC COMBINATION USEFUL FOR TREATING BACTERIAL INFECTION**

[54] **COMBINAISON D'INHIBITEUR D'EXO VII ET D'ANTIBIOTIQUE QUINOLONE UTILE POUR LE TRAITEMENT D'INFECTIONS BACTERIENNES**

[72] POMMIER, YVES, GEORGES, US

[72] HUANG, SHAR-YIN, NAOMI, US

[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US

[85] 2023-06-12

[86] 2021-12-22 (PCT/US2021/064996)

[87] (WO2022/140631)

[30] US (63/129,271) 2020-12-22

[21] **3,205,045**  
[13] A1

[51] **Int.Cl. F16F 7/10 (2006.01) F16F 6/00 (2006.01) F16F 7/104 (2006.01)**

[25] EN

[54] **VIBRATION CONTROL SYSTEMS**

[54] **SYSTEMES DE COMMANDE DE VIBRATIONS**

[72] SHARKH, SULEIMAN MAHMOUD, GB

[72] DALEY, STEPHEN, GB

[72] HENDIJANIZADEH, MEHDI, GB

[71] BAE SYSTEMS PLC, GB

[85] 2023-06-13

[86] 2021-12-06 (PCT/GB2021/053180)

[87] (WO2022/129865)

[30] GB (2019754.7) 2020-12-15

[30] EP (20275179.8) 2020-12-15

[21] **3,205,047**  
[13] A1

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

[25] EN

[54] **DETERMINING BREAKDOWN PRESSURE IN DEVIATED, CASED AND PERFORATED WELLS USING FINITE ELEMENT METHOD INCORPORATING DAMAGE PLASTICITY MODELS**

[54] **DETERMINATION DE LA PRESSION DE RUPTURE DANS DES PUITTS DEVIES, TUBES ET PERFORES A L'AIDE D'UN PROCEDE A ELEMENTS FINIS INCORPORANT DES MODELES DE PLASTICITE DES DOMMAGES**

[72] XIA, KAIMING, SA

[72] MAHMOOD, TARIQ, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2023-06-12

[86] 2021-12-23 (PCT/US2021/065128)

[87] (WO2022/146884)

[30] US (17/140,252) 2021-01-04

[21] **3,205,048**  
[13] A1

[51] **Int.Cl. E21B 33/122 (2006.01)**

[25] EN

[54] **DOWNHOLE BLOWOUT PREVENTER AND BLOWOUT PREVENTION OPERATION METHOD**

[54] **OBTURATEUR ANTI-ERUPTION DE FOND DE TROU ET PROCEDE DE FONCTIONNEMENT DE PREVENTION ANTI-ERUPTION**

[72] MA, LANRONG, CN

[72] GU, LEI, CN

[72] YIN, HUIBO, CN

[72] ZHENG, XIAOZHI, CN

[72] CHENG, GUANGMING, CN

[72] HOU, YUEQUAN, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] SINOPEC PETROLEUM ENGINEERING TECHNOLOGY RESEARCH INSTITUTE CO., LTD., CN

[85] 2023-06-13

[86] 2021-08-16 (PCT/CN2021/112796)

[87] (WO2022/127155)

[30] CN (202011495723.5) 2020-12-17

[21] **3,205,051**  
[13] A1

[51] **Int.Cl. E01H 4/02 (2006.01)**

[25] EN

[54] **SNOWGROOMER AND METHOD FOR CONTROLLING A SNOWGROOMER**

[54] **DAMEUSE ET PROCEDE DE COMMANDE D'UNE DAMEUSE**

[72] KIRCHMAIR, MARTIN, IT

[72] SALIS, FRANCESCO, IT

[72] PAOLETTI, ALBERTO, IT

[71] PRINOTH S.P.A., IT

[85] 2023-06-13

[86] 2021-12-16 (PCT/IB2021/061858)

[87] (WO2022/130279)

[30] IT (102020000031076) 2020-12-16

[21] **3,205,052**  
[13] A1

[51] **Int.Cl. A61K 39/215 (2006.01)**

[25] EN

[54] **REPLICATION-COMPETENT ADENOVIRUS TYPE 4 SARS-COV-2 VACCINES AND THEIR USE**

[54] **VACCINS A ADENOVIRUS DE TYPE 4 APTE A LA REPLICATION CONTRE LE SARS-COV-2 ET LEUR UTILISATION**

[72] CONNORS, MARK, US

[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US

[85] 2023-06-12

[86] 2022-01-14 (PCT/US2022/012530)

[87] (WO2022/155476)

[30] US (63/138,221) 2021-01-15

[21] **3,205,054**  
[13] A1

[51] **Int.Cl. A61J 3/00 (2006.01) B65G 47/14 (2006.01)**

[25] EN

[54] **DRUG FEEDER**

[54] **DISTRIBUTEUR DE MEDICAMENTS**

[72] OMURA, YOSHIHITO, JP

[72] OHGAYA, SYUNJI, JP

[71] TOSHO, INC., JP

[85] 2023-06-09

[86] 2021-12-09 (PCT/JP2021/045336)

[87] (WO2022/124369)

[30] JP (2020-205592) 2020-12-11

[30] JP (2020-214571) 2020-12-24

[30] JP (2021-001647) 2021-01-07

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[21] **3,205,055**  
[13] A1

[51] **Int.Cl. C07G 1/00 (2011.01) C08H 7/00 (2011.01) C03C 13/06 (2006.01) C07B 33/00 (2006.01)**

[25] EN

[54] **ROOFING SYSTEM AND INSULATION ELEMENT FOR A FLAT ROOF OR A FLAT INCLINED ROOF**

[54] **SYSTEME DE TOITURE ET ELEMENT D'ISOLATION POUR UN TOIT PLAT OU UN TOIT INCLINE PLAT**

[72] BARTNIK JOHANSSON, DORTE, DK

[72] NIKOLIC, MIROSLAV, DK

[71] ROCKWOOL A/S, DK

[85] 2023-06-13

[86] 2021-10-01 (PCT/EP2021/077136)

[87] (WO2022/144104)

[30] EP (PCT/EP2020/088061) 2020-12-30

[21] **3,205,056**  
[13] A1

[51] **Int.Cl. C08G 69/26 (2006.01) C08G 69/34 (2006.01) C08L 77/08 (2006.01)**

[25] EN

[54] **TELECHELIC N-ALKYLATED POLYAMIDE POLYMERS AND COPOLYMERS**

[54] **POLYMERES ET COPOLYMERES DE POLYAMIDE N-ALKYLES TELECHELIQUES**

[72] ERDODI, GABOR, US

[72] SKOFF, ISRAEL J., US

[71] LUBRIZOL ADAVANCED MATERIALS, INC, US

[85] 2023-06-13

[86] 2021-12-13 (PCT/US2021/063027)

[87] (WO2022/132619)

[30] US (63/124,921) 2020-12-14

[21] **3,205,057**  
[13] A1

[51] **Int.Cl. C12P 7/6409 (2022.01) C02F 3/28 (2006.01) C12P 39/00 (2006.01)**

[25] EN

[54] **METHOD TO PRODUCE MEDIUM CHAIN FATTY ACIDS**

[54] **PROCEDE DE PRODUCTION D'ACIDES GRAS A CHAINE MOYENNE**

[72] SMIS, JAN REMI G, BE

[71] DRANCO, NAAMLOZE VENNOOTSCHAP, BE

[85] 2023-06-13

[86] 2022-01-04 (PCT/IB2022/050038)

[87] (WO2022/144863)

[30] BE (2021/5001) 2021-01-04

[21] **3,205,059**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 9/127 (2006.01) A61K 39/00 (2006.01) A61K 39/385 (2006.01) A61P 1/00 (2006.01) C12N 15/00 (2006.01) C12Q 1/00 (2006.01)**

[25] EN

[54] **BIOLOGICAL DELIVERY SYSTEMS**

[54] **SYSTEMES DE DISTRIBUTION DE PRODUITS BIOLOGIQUES**

[72] AHMAD, MUBHIJ, US

[72] DAY, TIMOTHY, US

[72] HAFEZ, ISMAIL, US

[72] MERRITT, JOHN, US

[71] DNALITE THERAPEUTICS, INC., US

[85] 2023-06-13

[86] 2021-12-14 (PCT/US2021/063182)

[87] (WO2022/132678)

[30] US (63/125,075) 2020-12-14

[30] US (63/194,315) 2021-05-28

[30] US (PCT/US2021/037011) 2021-06-11

[30] US (63/282,421) 2021-11-23

[21] **3,205,060**  
[13] A1

[51] **Int.Cl. A61N 7/02 (2006.01) A61N 7/00 (2006.01)**

[25] EN

[54] **ULTRASOUND APPARATUS WITH RECIPROCATING MOVEMENT-TYPE TRANSDUCER**

[54] **APPAREIL A ULTRASON AVEC TRANSDUCTEUR DE TYPE A MOUVEMENT DE VA-ET-VIENT**

[72] KIM, JU HWAN, KR

[72] LEE, SANGJIN, KR

[71] VIOL CO., LTD., KR

[85] 2023-06-09

[86] 2021-11-02 (PCT/KR2021/015730)

[87] (WO2022/124578)

[30] KR (10-2020-0173686) 2020-12-11

[30] KR (10-2021-0022789) 2021-02-19

[21] **3,205,063**  
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 47/90 (2006.01)**

[25] EN

[54] **GRIPPING DEVICE**

[54] **DISPOSITIF DE PREHENSION**

[72] HAVEL, MAREK, GB

[72] HARMAN, MATTHEW, GB

[71] OCADO INNOVATION LIMITED, GB

[85] 2023-06-13

[86] 2021-12-13 (PCT/EP2021/085544)

[87] (WO2022/128947)

[30] GB (2019717.4) 2020-12-14

[21] **3,205,065**  
[13] A1

[51] **Int.Cl. A61N 7/02 (2006.01) A61N 7/00 (2006.01)**

[25] EN

[54] **ULTRASOUND APPARATUS WITH TWO-ROW TRANSFER WAY OF TRANSDUCER**

[54] **APPAREIL A ULTRASON MUNI D'UN TRANSDUCTEUR DU TYPE A DOUBLE DEPLACEMENT**

[72] KIM, JU HWAN, KR

[72] LEE, SANGJIN, KR

[71] VIOL CO., LTD., KR

[85] 2023-06-09

[86] 2021-11-09 (PCT/KR2021/016254)

[87] (WO2022/124597)

[30] KR (10-2020-0173686) 2020-12-11

[30] KR (10-2021-0022788) 2021-02-19

[21] **3,205,066**  
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 47/90 (2006.01)**

[25] EN

[54] **GRIPPING DEVICE**

[54] **DISPOSITIF DE PREHENSION**

[72] NEWBOLD, ANDREW, GB

[72] BALLARD, MAURICE, GB

[71] OCADO INNOVATION LIMITED, GB

[85] 2023-06-13

[86] 2021-12-13 (PCT/EP2021/085561)

[87] (WO2022/128963)

[30] GB (2019712.5) 2020-12-14

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[21] **3,205,068**  
[13] A1

[51] **Int.Cl. A01G 20/15 (2018.01) A01G 20/12 (2018.01)**

[25] EN

[54] **A SOD HARVESTER AND METHOD FOR AUTOMATICALLY ROLLING UP A SLAB OF SOD**

[54] **MACHINE DE RECOLTE DE GAZON EN PLAQUES ET PROCEDE D'ENROULEMENT AUTOMATIQUE DE PLAQUES DE GAZON**

[72] HENDRIKS, EMANUAL ANTONIUS ALPHONSUS, NL

[71] ERIK HENDRIKS HOLDING B.V., NL

[85] 2023-06-09

[86] 2022-01-06 (PCT/NL2022/050003)

[87] (WO2022/149979)

[30] NL (2027287) 2021-01-07

[21] **3,205,070**  
[13] A1

[51] **Int.Cl. A01K 61/10 (2017.01) A01K 61/60 (2017.01) A01K 63/04 (2006.01)**

[25] EN

[54] **A METHOD AND A FISH FARMING PEN FOR REARING FISH WITH A PHYSOSTOME SWIM BLADDER**

[54] **PROCEDE ET PARC DE PISCICULTURE POUR L'ELEVAGE DE POISSONS DOTES D'UNE VESSIE NATATOIRE PHYSOSTOME**

[72] EIDE, ERLEND, NO

[71] WATERMOON AS, NO

[85] 2023-06-09

[86] 2021-12-10 (PCT/NO2021/050260)

[87] (WO2022/124912)

[30] NO (20201358) 2020-12-11

[21] **3,205,071**  
[13] A1

[51] **Int.Cl. C01B 21/064 (2006.01) C04B 35/5833 (2006.01) H05H 1/46 (2006.01)**

[25] EN

[54] **PLASMA TREATMENT METHOD, METHOD OF PRODUCING PLASMA-TREATED HEXAGONAL BORON NITRIDE POWDER, AND PLASMA TREATMENT DEVICE**

[54] **METHODE DE TRAITEMENT AU PLASMA, METHODE DE PRODUCTION DE POUFRE DE NITRURE DE BORE HEXAGONAL TRAITEE AU PLASMA, ET DISPOSITIF DE TRAITEMENT AU PLASMA**

[72] MASUOKA, HIROYUKI, JP

[72] TAHARA, DAISUKE, JP

[72] MATSUZAKI, AKIRA, JP

[71] JFE STEEL CORPORATION, JP

[85] 2023-06-13

[86] 2021-09-27 (PCT/JP2021/035467)

[87] (WO2022/163015)

[30] JP (2021-010533) 2021-01-26

[21] **3,205,072**  
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) B60K 31/00 (2006.01) G05B 19/416 (2006.01)**

[25] EN

[54] **MOTION CONTROL OF A MOTION DEVICE**

[54] **COMMANDE DE MOUVEMENT D'UN DISPOSITIF DE MOUVEMENT**

[72] JORGE, TIAGO MIGUENS RIJO BRANCO, GB

[71] OCADO INNOVATION LIMITED, GB

[85] 2023-06-13

[86] 2021-12-21 (PCT/EP2021/087163)

[87] (WO2022/136475)

[30] GB (2020668.6) 2020-12-24

[30] GB (2020680.1) 2020-12-24

[30] GB (2020681.9) 2020-12-24

[30] GB (2020684.3) 2020-12-24

[21] **3,205,073**  
[13] A1

[51] **Int.Cl. D06M 11/42 (2006.01) A41D 31/30 (2019.01) A01N 59/16 (2006.01) A41D 13/11 (2006.01) A61L 15/18 (2006.01) D06M 11/44 (2006.01) D06M 11/83 (2006.01) D06M 16/00 (2006.01) D06M 23/08 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL AND ANTIVIRAL NANOCOMPOSITES SHEETS**

[54] **FEUILLES NANOCOMPOSITES ANTIMICROBIENNES ET ANTIVIRALES**

[72] ABBAS, ABDENNOUR, US

[72] GONZALEZ, ANDREW ELIAS, US

[72] BROCKGREITENS, JOHN WILFRID, US

[72] BELLANCA, MICHELLE MARIE, US

[71] CLAROS TECHNOLOGIES INC., US

[85] 2023-06-09

[86] 2021-12-10 (PCT/US2021/062766)

[87] (WO2022/125868)

[30] US (63/123,814) 2020-12-10

[21] **3,205,074**  
[13] A1

[51] **Int.Cl. A23L 2/52 (2006.01) A23L 2/00 (2006.01) C12G 3/04 (2019.01)**

[25] EN

[54] **BEVERAGE CONTAINING QUASSIN**

[54] **BOISSON CONTENANT DE LA QUASSINE**

[72] KOZU, SAKI, JP

[72] YOSHIHIRO, AKIRA, JP

[71] SUNTORY HOLDINGS LIMITED, JP

[85] 2023-06-13

[86] 2021-11-16 (PCT/JP2021/041980)

[87] (WO2022/137888)

[30] JP (2020-211601) 2020-12-21



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[21] **3,205,077**  
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61K 39/00 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **METHODS AND MATERIALS FOR TREATING CANCER**

[54] **METHODES ET SUBSTANCES POUR LE TRAITEMENT DU CANCER**

[72] VILE, RICHARD G., US

[72] EVGIN, LAURA, US

[72] KOTTKE, TIMOTHY J., US

[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US

[85] 2023-06-09

[86] 2021-12-10 (PCT/US2021/062813)

[87] (WO2022/125901)

[30] US (63/124,611) 2020-12-11

[30] US (63/149,882) 2021-02-16

[30] US (63/275,753) 2021-11-04

[21] **3,205,078**  
[13] A1

[51] **Int.Cl. H05K 3/36 (2006.01)**

[25] EN

[54] **CIRCUIT BOARD FASTENER ASSEMBLY**

[54] **ENSEMBLE DE FIXATION DE CARTE DE CIRCUIT IMPRIME**

[72] COLOSI, ANTHONY, US

[71] PENN ENGINEERING & MANUFACTURING CORP., US

[85] 2023-06-09

[86] 2021-12-10 (PCT/US2021/062840)

[87] (WO2022/125921)

[30] US (63/124,433) 2020-12-11

[21] **3,205,080**  
[13] A1

[51] **Int.Cl. B60T 7/20 (2006.01) B60L 7/08 (2006.01) B60L 15/20 (2006.01) B60T 8/17 (2006.01)**

[25] EN

[54] **TRAILER HOOKUP BREAKAWAY MITIGATION SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES D'ATTENUATION DE RUPTURE D'ATTELAGE DE REMORQUE**

[72] MCKIBBEN, ETHAN J., US

[72] FOSTER, JORDAN C., US

[72] FORSBERG, CHRIS, US

[72] GORDON, ANDREW TAYLOR, US

[72] YORDANOV, MOMCHIL, US

[72] BOSZE, ADAM ATTILA, US

[72] HEFFELFINGER, AARON, US

[71] HEXAGON PURUS NORTH AMERICA HOLDINGS INC., US

[71] AGILITY FUEL SYSTEMS LLC, US

[85] 2023-06-09

[86] 2021-12-10 (PCT/US2021/062856)

[87] (WO2022/125929)

[30] US (63/124,587) 2020-12-11

[21] **3,205,081**  
[13] A1

[51] **Int.Cl. G06Q 10/00 (2023.01) F25D 27/00 (2006.01)**

[25] EN

[54] **SYSTEM FOR CHECKING THE AUTHENTICITY OF PRODUCTS**

[54] **SYSTEME DE VERIFICATION DE L'AUTHENTICITE DE PRODUITS**

[72] SONNLEITNER, HERMANN, AT

[72] NACHBAGAUER, JOSEF, AT

[72] CONCIN, ROLAND, AT

[72] MAYRHUBER, HARALD, AT

[71] RED BULL GMBH, AT

[85] 2023-06-13

[86] 2021-12-23 (PCT/EP2021/087482)

[87] (WO2022/136639)

[30] EP (20216867.0) 2020-12-23

[21] **3,205,084**  
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12P 7/6436 (2022.01) C12P 7/6445 (2022.01) C12N 9/20 (2006.01)**

[25] EN

[54] **FUNGAL CELLS FOR TAILORED FATS**

[54] **CELLULES FONGIQUES POUR GRAISSES ADAPTEES**

[72] DAVID, FLORIAN, SE

[72] GONCALVES TEIXEIRA, PAULO ALEXANDRE, SE

[72] KRIVORUCHKO, ANASTASIA, SE

[71] MELT&MARBLE AB, SE

[85] 2023-06-13

[86] 2021-12-21 (PCT/SE2021/051297)

[87] (WO2022/139668)

[30] SE (2051552-4) 2020-12-22

[21] **3,205,085**  
[13] A1

[51] **Int.Cl. A23L 27/10 (2016.01) A23L 27/00 (2016.01) A23L 2/00 (2006.01)**

[25] EN

[54] **NOVEL EXTRACT, METHOD FOR PRODUCING SAME, AND USE THEREOF**

[54] **NOUVEL EXTRAIT, SON PROCEDE DE PRODUCTION, ET UTILISATION ASSOCIEE**

[72] NISHIBORI, TOMOYUKI, JP

[72] YOSHIHIRO, AKIRA, JP

[71] SUNTORY HOLDINGS LIMITED, JP

[85] 2023-06-13

[86] 2021-12-15 (PCT/JP2021/046214)

[87] (WO2022/138366)

[30] JP (2020-211383) 2020-12-21

[21] **3,205,087**  
[13] A1

[51] **Int.Cl. F04C 5/00 (2006.01) B67D 1/10 (2006.01) C02F 1/68 (2006.01) F04B 43/12 (2006.01)**

[25] EN

[54] **WATER SUPPLY DEVICE**

[54] **DISPOSITIF D'ALIMENTATION EN EAU**

[72] YAMASHITA, TAKAFUMI, JP

[71] SUNTORY HOLDINGS LIMITED, JP

[85] 2023-06-13

[86] 2021-12-28 (PCT/JP2021/049001)

[87] (WO2022/145485)

[30] JP (2020-219551) 2020-12-28

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[21] **3,205,088**  
[13] A1

[51] **Int.Cl. C12G 3/04 (2019.01)**  
[25] EN  
[54] **ALCOHOLIC BEVERAGE CONTAINING FRUIT JUICE**  
[54] **BOISSON ALCOOLISEE CONTENANT DU JUS DE FRUIT**  
[72] FUJITA, SHUNYA, JP  
[72] OMOTO, TETSUYA, JP  
[72] YONEZAWA, CHIE, JP  
[72] SEIKI, HIROSHI, JP  
[71] SUNTORY HOLDINGS LIMITED, JP  
[85] 2023-06-13  
[86] 2022-01-20 (PCT/JP2022/001926)  
[87] (WO2022/163483)  
[30] JP (2021-010019) 2021-01-26

[21] **3,205,089**  
[13] A1

[51] **Int.Cl. B01D 67/00 (2006.01) B01D 53/02 (2006.01) B01D 69/10 (2006.01) B01D 69/12 (2006.01) B01D 71/02 (2006.01)**  
[25] EN  
[54] **A SEPARATION DEVICE AND COMPOSITE MEMBRANE**  
[54] **DISPOSITIF DE SEPARATION ET MEMBRANE COMPOSITE**  
[72] GUEVARA CARRIO, JUAN ALFREDO, SG  
[72] CASTRO NETO, ANTONIO, HELIO, SG  
[72] GRANIERO ECHEVERRIGARAY, SERGIO, SG  
[71] NATIONAL UNIVERSITY OF SINGAPORE, SG  
[85] 2023-06-13  
[86] 2021-12-16 (PCT/SG2021/050793)  
[87] (WO2022/132051)  
[30] SG (10202012652S) 2020-12-16

[21] **3,205,094**  
[13] A1

[51] **Int.Cl. F16G 1/28 (2006.01)**  
[25] EN  
[54] **TOOTHED BELT**  
[54] **COURROIE DENTEE**  
[72] OSAKI, SUSUMU, JP  
[72] HEMMI, YUSUKE, JP  
[71] MITSUBOSHI BELTING LTD., JP  
[85] 2023-06-13  
[86] 2022-01-21 (PCT/JP2022/002298)  
[87] (WO2022/158582)  
[30] JP (2021-009529) 2021-01-25  
[30] JP (2022-004259) 2022-01-14

[21] **3,205,095**  
[13] A1

[51] **Int.Cl. H01M 50/166 (2021.01) H01M 50/10 (2021.01) H01M 50/147 (2021.01) H01M 50/148 (2021.01) H01M 50/15 (2021.01) H01M 50/152 (2021.01) H01M 50/153 (2021.01)**  
[25] EN  
[54] **ELECTROCHEMICAL CELLS AND HEADERS HAVING SEALING FEATURES**  
[54] **CELLULES ELECTROCHIMIQUES ET COLLECTEURS PRESENTANT DES ELEMENTS D'ETANCHEITE**  
[72] ZHANG, DONG, US  
[72] MUDGE, JASON, US  
[72] DARCH, DAVID, US  
[72] DESTEPHEN, MARIO, US  
[72] NDZEBET, ERNEST, US  
[72] JANAKIRAMAN, UMA, US  
[72] GORDON, MICHAEL J., US  
[71] EAGLEPICHER TECHNOLOGIES, LLC, US  
[85] 2023-06-13  
[86] 2021-12-14 (PCT/US2021/063269)  
[87] (WO2022/132741)  
[30] US (63/126,146) 2020-12-16

[21] **3,205,103**  
[13] A1

[51] **Int.Cl. E21B 47/04 (2012.01) E21B 47/107 (2012.01) E21B 47/10 (2012.01) G01V 1/50 (2006.01)**  
[25] EN  
[54] **METHODS FOR DETERMINING POSITIONS OF FLUID INTERFACES AND DETECTING CEMENT SETTING IN A SUBTERRANEAN WELLBORE**  
[54] **PROCEDES DE DETERMINATION DE POSITIONS D'INTERFACES DE FLUIDE ET DE DETECTION DE DURCISSEMENT DE CIMENT DANS UN Puits DE FORAGE SOUTERRAIN**  
[72] DEMIDOV, DEMID VALERYEVICH, RU  
[72] KORKIN, ROMAN VLADIMIROVICH, RU  
[72] FEDOROV, ANDREY VLADIMIROVICH, RU  
[72] KABANNIK, ARTEM VALERYEVICH, RU  
[71] SCHLUMBERGER CANADA LIMITED, CA  
[85] 2023-06-13  
[86] 2020-12-14 (PCT/RU2020/000679)  
[87] (WO2022/131945)

[21] **3,205,108**  
[13] A1

[51] **Int.Cl. B65H 57/14 (2006.01) B29C 70/38 (2006.01) B65H 57/16 (2006.01)**  
[25] FR  
[54] **DEPOSITING HEAD FOR A FILAMENT WINDING FACILITY**  
[54] **TETE DE DEPOSE POUR UNE INSTALLATION D'ENROULEMENT FILAMENTAIRE**  
[72] MAGNIER, CHRISTOPHE, FR  
[72] VILLALONGA, STEPHANE, FR  
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR  
[85] 2023-06-13  
[86] 2021-12-24 (PCT/FR2021/052457)  
[87] (WO2022/136812)  
[30] FR (2014064) 2020-12-24

[21] **3,205,110**  
[13] A1

[51] **Int.Cl. C12M 1/34 (2006.01) C12Q 1/04 (2006.01) C12Q 1/24 (2006.01) G01N 33/569 (2006.01)**  
[25] EN  
[54] **SYSTEMS, METHODS, AND APPARATUSES FOR CONCENTRATION AND IDENTIFICATION OF A MICROORGANISM FROM BLOOD**  
[54] **SYSTEMES, PROCEDES ET APPAREILS POUR LA CONCENTRATION ET L'IDENTIFICATION D'UN MICRO-ORGANISME A PARTIR DU SANG**  
[72] OTT CROWTHER, ELIZABETH MARY, US  
[72] SCHAUB, MARTA ELIZABETH, US  
[72] RICH, EDWARD PRESTON, US  
[72] HATCH, ANDREW CARTER, US  
[72] THATCHER, STEPHANIE ANNE, US  
[72] HILL, RYAN T., US  
[72] RONSICK, CHRISTOPHER S., US  
[72] WILSON, MARK S., US  
[72] WALSH, JOHN D., US  
[72] RIRIE, KIRK M., US  
[72] ROPER, CLARK L., US  
[71] BIOFIRE DIAGNOSTICS, LLC, US  
[71] BIOMERIEUX, INC., US  
[85] 2023-06-13  
[86] 2021-12-14 (PCT/US2021/063288)  
[87] (WO2022/132754)  
[30] US (63/126,041) 2020-12-16

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[13] A1

[51] **Int.Cl. A61K 31/4164 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 233/54 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **DOSING REGIMENS FOR ORAL ALK2 KINASE INHIBITORS**

[54] **SCHEMAS POSOLOGIQUES POUR INHIBITEURS ORAUX DE LA KINASE ALK2**

[72] BABU, YARLAGADDA S., US  
[72] SHERIDAN, WILLIAM P., US  
[71] BIOCRYST PHARMACEUTICALS, INC., US

[85] 2023-06-13  
[86] 2021-12-20 (PCT/US2021/064333)  
[87] (WO2022/140250)  
[30] US (63/128,635) 2020-12-21

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[21] **3,205,116**  
[13] A1

[51] **Int.Cl. C12N 15/864 (2006.01) A61K 38/00 (2006.01) A61K 38/50 (2006.01) A61K 38/55 (2006.01) A61K 48/00 (2006.01)**

[25] EN

[54] **INCREASED PACKAGING EFFICIENCY OF VECTOR FOR CARDIAC GENE THERAPY**

[54] **EFFICACITE ACCRUE D'ENCAPSIDATION DE VECTEUR POUR THERAPIE GENIQUE CARDIAQUE**

[72] SWEENEY, HUGH LEE, US  
[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US

[85] 2023-06-13  
[86] 2021-12-21 (PCT/US2021/064637)  
[87] (WO2022/140402)  
[30] US (63/130,109) 2020-12-23

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[21] **3,205,117**  
[13] A1

[51] **Int.Cl. C12N 9/00 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR SHORT STATURE PLANTS THROUGH MANIPULATION OF GIBBERELLIN METABOLISM**

[54] **PROCEDES ET COMPOSITIONS POUR PLANTS DE PETITE TAILLE PAR MANIPULATION DU METABOLISME DE LA GIBBERELLINE**

[72] ALLEN, EDWARDS, US  
[72] BODDU, JAYANAND, US  
[72] GOLDSHMIDT, ALEXANDER, US  
[72] NEELAM, ANIL, US  
[72] PACIOREK, TOMASZ, US  
[72] SLEWINSKI, THOMAS, US  
[72] WANG, HUAI, US  
[71] MONSANTO TECHNOLOGY LLC, US

[85] 2023-06-13  
[86] 2021-12-15 (PCT/US2021/072940)  
[87] (WO2022/133460)  
[30] US (63/125,752) 2020-12-15  
[30] US (63/180,344) 2021-04-27

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[21] **3,205,119**  
[13] A1

[51] **Int.Cl. C12Q 1/6879 (2018.01) C12N 15/113 (2010.01) C12Q 1/6844 (2018.01) C12N 9/22 (2006.01)**

[25] EN

[54] **METHODS, COMPOSITIONS, AND DEVICES FOR THE RAPID DETERMINATION OF FETAL SEX**

[54] **PROCEDES, COMPOSITIONS ET DISPOSITIFS POUR LA DETERMINATION RAPIDE DU SEXE D'UN FOETUS**

[72] JACOB, CHRISTOPHER, US  
[71] GATEWAY GENOMICS, LLC, US

[85] 2023-06-13  
[86] 2021-12-14 (PCT/US2021/063385)  
[87] (WO2022/132816)  
[30] US (63/125,395) 2020-12-15

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[21] **3,205,120**  
[13] A1

[51] **Int.Cl. A23L 3/3535 (2006.01) A23B 7/154 (2006.01)**

[25] EN

[54] **MATERIALS AND METHODS FOR EXTENDING SHELF-LIFE OF FOODS**

[54] **MATERIAUX ET PROCEDES POUR PROLONGER LA DUREE DE CONSERVATION D'ALIMENTS**

[72] PATEL, GORDHANBHAI N., US  
[72] NORDENBRING, JULIA KOLEDA, US  
[71] JP LABORATORIES, INC., US

[85] 2023-06-13  
[86] 2022-01-19 (PCT/US2022/012901)  
[87] (WO2022/159439)  
[30] US (63/140,160) 2021-01-21  
[30] US (63/231,890) 2021-08-11

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[21] **3,205,122**  
[13] A1

[51] **Int.Cl. G01N 29/26 (2006.01) G01N 29/04 (2006.01) G01N 29/06 (2006.01) G01N 29/32 (2006.01) G01N 29/44 (2006.01)**

[25] FR

[54] **METHOD, DEVICE AND PROGRAM FOR DETECTING, BY ULTRASOUND, DEFECTS IN A MATERIAL**

[54] **PROCEDE, DISPOSITIF ET PROGRAMME DE DETECTION PAR ULTRASONNS DE DEFAUTS DANS UN MATERIAU**

[72] COURET, LAURA, FR  
[72] PAUL, NICOLAS, FR  
[71] ELECTRICITE DE FRANCE, FR

[85] 2023-06-14  
[86] 2021-12-16 (PCT/FR2021/052368)  
[87] (WO2022/129805)  
[30] FR (FR2013483) 2020-12-17

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[21] **3,205,123**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) C12Q 1/66 (2006.01) G01N 21/76 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CHIP REGENERATION**

[54] **SYSTEMES ET PROCEDES DE REGENERATION DE PUCE**

[72] CHEN, GUOJUN, US

[72] SCHMID, GERARD, US

[72] REARICK, TODD, US

[72] THURSTON, THOMAS RAYMOND, US

[72] HUANG, HAIDONG, US

[71] QUANTUM-SI INCORPORATED, US

[85] 2023-06-13

[86] 2021-12-14 (PCT/US2021/063391)

[87] (WO2022/132821)

[30] US (63/125,847) 2020-12-15

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[21] **3,205,125**  
[13] A1

[51] **Int.Cl. F16F 7/10 (2006.01) F16F 6/00 (2006.01) F16F 7/104 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN AND RELATING TO VIBRATION CONTROL SYSTEMS**

[54] **AMELIORATIONS DE SYSTEMES DE MAITRISE DES VIBRATIONS ET CONCERNANT CEUX-CI**

[72] SHARKH, SULEIMAN MAHMOUD, GB

[72] DALEY, STEPHEN, GB

[72] HENDIJANIZADEH, MEHDI, GB

[71] BAE SYSTEMS PLC, GB

[85] 2023-06-14

[86] 2021-12-06 (PCT/GB2021/053181)

[87] (WO2022/129866)

[30] GB (2019757.0) 2020-12-15

[30] EP (20275180.6) 2020-12-15

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[21] **3,205,126**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/39 (2006.01)**

[25] EN

[54] **RNA CONSTRUCT**

[54] **CONSTRUCTION D'ARN**

[72] SHATTOCK, ROBIN, GB

[72] MCKAY, PAUL, GB

[72] WATSON, MICHAEL, GB

[72] HARPER, ELAINE, GB

[71] IMPERIAL COLLEGE INNOVATIONS LIMITED, GB

[71] VAXEQUITY LTD, GB

[85] 2023-06-14

[86] 2021-12-17 (PCT/GB2021/053361)

[87] (WO2022/129944)

[30] GB (2020063.0) 2020-12-17

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[21] **3,205,130**  
[13] A1

[51] **Int.Cl. C12Q 1/686 (2018.01) C12Q 1/70 (2006.01)**

[25] EN

[54] **REAL TIME PCR METHOD TO DETECT BOVINE PARVOVIRUS 3**

[54] **PROCEDE DE PCR EN TEMPS REEL POUR DETECTER LE PARVOVIRUS BOVIN 3**

[72] AMINI BAVIL OLYAEE, SAMAD, US

[71] AMGEN INC., US

[85] 2023-06-13

[86] 2021-12-16 (PCT/US2021/063668)

[87] (WO2022/133005)

[30] US (63/126,939) 2020-12-17

[30] US (63/211,607) 2021-06-17

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[21] **3,205,133**  
[13] A1

[51] **Int.Cl. A61K 38/45 (2006.01) A61K 47/66 (2017.01) A61P 1/16 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) C07K 14/46 (2006.01) C12N 9/10 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR MODULATING MYC EXPRESSION**

[54] **COMPOSITIONS ET METHODES DE MODULATION DE L'EXPRESSION DE MYC**

[72] WITT, ABIGAIL ELIZABETH, US

[72] FARELLI, JEREMIAH DALE, US

[72] SCHEIDEGGER, ADAM WALTER, US

[72] SENAPEDIS, JR., WILLIAM THOMAS, US

[72] KENNEDY, JODI MICHELLE, US

[72] BELAGHZAL, HOUDA, US

[72] YARAR, DEFNE, US

[72] LEE, EUGINE, US

[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US

[85] 2023-06-14

[86] 2021-12-15 (PCT/US2021/010059)

[87] (WO2022/132195)

[30] US (63/125,833) 2020-12-15

[30] US (63/137,097) 2021-01-13

[30] US (63/212,991) 2021-06-21

[30] US (63/281,022) 2021-11-18

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[21] **3,205,134**  
[13] A1

[51] **Int.Cl. G02B 26/00 (2006.01)**

[25] EN

[54] **PULSED LIGHTING NETWORK FACILITY**

[54] **INSTALLATION DE RESEAU D'ECLAIRAGE PULSE**

[72] SUNTYCH, JON DAREN, US

[71] XIANT TECHNOLOGIES, INC., US

[85] 2023-06-13

[86] 2021-12-16 (PCT/US2021/063850)

[87] (WO2022/133112)

[30] US (63/126,402) 2020-12-16

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[21] **3,205,135**  
[13] A1  
[51] **Int.Cl. A61K 9/16 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **FABRICATION OF PROTEIN-ENCAPSULATING MICROGELS**  
[54] **FABRICATION DE MICROGELS ENCAPSULANT DES PROTEINES**  
[72] CHEN, HUNTER, US  
[72] ZHAO, YIMING, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2023-06-13  
[86] 2021-12-16 (PCT/US2021/063890)  
[87] (WO2022/133135)  
[30] US (63/127,033) 2020-12-17

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[21] **3,205,138**  
[13] A1  
[51] **Int.Cl. C12N 15/11 (2006.01) C12N 15/90 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR EDITING BETA-GLOBIN FOR TREATMENT OF HEMAGLOBINOPATHIES**  
[54] **COMPOSITIONS ET PROCEDES POUR L'EDITION DE BETA-GLOBINE POUR LE TRAITEMENT D'HEMOGLOBINOPATHIES**  
[72] D'SOUZA, SANJAY, US  
[72] WEST, JASON, US  
[72] EUSTACE, BRENDA K., US  
[72] MAHAJAN, SUDIPTA, US  
[71] VERTEX PHARMACEUTICALS INCORPORATED, US  
[85] 2023-06-13  
[86] 2021-12-17 (PCT/US2021/064085)  
[87] (WO2022/133246)  
[30] US (63/126,843) 2020-12-17

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[21] **3,205,142**  
[13] A1  
[51] **Int.Cl. F21V 8/00 (2006.01)**  
[25] EN  
[54] **BACKLIGHT, MULTIVIEW BACKLIGHT, AND METHOD HAVING GLOBAL MODE MIXER**  
[54] **RETROECLAIRAGE, RETROECLAIRAGE A VUES MULTIPLES, ET PROCEDE AYANT UN MELANGEUR DE MODES GLOBAL**  
[72] FATTAL, DAVID A., US  
[72] LOWNEY, JOSEPH D., US  
[71] LEIA INC., US  
[85] 2023-06-09  
[86] 2020-12-31 (PCT/US2020/067749)  
[87] (WO2022/146445)

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[21] **3,205,156**  
[13] A1  
[51] **Int.Cl. F16K 1/22 (2006.01) F16K 37/00 (2006.01) G09F 9/35 (2006.01)**  
[25] EN  
[54] **METHOD FOR DISPLAYING AN ACTUATING POSITION OF AN ACTUATING DRIVE, DISPLAY UNIT FOR AN ACTUATING DRIVE, AND ACTUATING DRIVE**  
[54] **PROCEDE D'AFFICHAGE D'UNE POSITION D'ACTIONNEMENT D'UN ENTRAINEMENT D'ACTIONNEMENT, UNITE D'AFFICHAGE POUR UN ENTRAINEMENT D'ACTIONNEMENT ET ENTRAINEMENT D'ACTIONNEMENT**  
[72] BRUCH, DENNIS, DE  
[72] MALUS, PETER, DE  
[72] BECHER, JURGEN, DE  
[71] AUMA RIESTER GMBH & CO. KG, DE  
[85] 2023-03-23  
[86] 2021-10-18 (PCT/EP2021/078810)  
[87] (WO2022/089978)  
[30] DE (10 2020 128 234.6) 2020-10-27

# 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>[21] <b>3,201,845</b> [13] A1</p>	<p>[25] EN [54] <b>INT.CL. C12N 15/113 (2010.01) A61K 31/712 (2006.01) A61P 25/00 (2006.01) C12N 15/11 (2006.01)</b> [25] EN [54] <b>ANTISENSE-OLIGONUCLEOTIDES AS INHIBITORS OF TGF-R SIGNALING</b> [54] <b>OLIGONUCLEOTIDES ANTISENS A TITRE D'INHIBITEURS DE LA SIGNALISATION DU TGF-R</b> [72] HOSSBACH, MARKUS, DE [72] KRAMPERT, MONIKA, DE [72] ARTH, HANS-LOTHAR, DE [71] NEUROVISION-PHARMA GMBH, DE [22] 2015-11-16 [41] 2016-05-19 [62] 2,964,834 [30] EP (14193368.9) 2014-11-16</p>	<p>[21] <b>3,204,178</b> [13] A1</p>	<p>[25] EN [54] <b>AUDIO NOTIFICATIONS NOTIFICATIONS AUDIO</b> [72] FISH, NATHAN, US [72] CASIMIRO, DANIEL, US [71] SONOS, INC., US [22] 2019-08-28 [41] 2020-03-05 [62] 3,111,322 [30] US (62/723,942) 2018-08-28 [30] US (16/148,879) 2018-10-01</p>	<p>[21] <b>3,204,219</b> [13] A1</p>	<p>[25] EN [54] <b>HEAD GATE FOR A CATTLE CONTAINMENT CHUTE</b> [54] <b>PORTE CORNADIS POUR UNE CHUTE DE CONTENTION DE BETAIL</b> [72] COMTE, ALAIN GERALD, CA [72] DELORME, ALLAN R., CA [72] DELAQUIS, YVAN, CA [71] COMTE INDUSTRIES LIMITED, CA [22] 2021-12-06 [41] 2023-06-06 [62] 3,141,087</p>
		<p>[21] <b>3,204,215</b> [13] A1</p>	<p>[25] EN [54] <b>METHOD AND APPARATUS FOR IMPLEMENTING AND MANAGING VIRTUAL SWITCHES</b> [54] <b>PROCEDE ET APPAREIL DESTINES A METTRE EN APPLICATION ET A GERER DES COMMUTATEURS VIRTUELS</b> [72] CASADO, MARTIN, US [72] INGRAM, PAUL S., US [72] AMIDON, KEITH ERIC, US [72] BALLAND III, PETER J., US [72] KOPONEN, TEEMU, US [72] PFAFF, BENJAMIN LEVY, US [72] PETTIT, JUSTIN, US [72] GROSS IV, JESSE E., US [72] WENDLANDT, DANIEL J., US [71] NICIRA, INC., US [22] 2010-04-01 [41] 2010-10-07 [62] 3,081,255 [30] US (61/165,875) 2009-04-01</p>	<p>[21] <b>3,204,283</b> [13] A1</p>	<p>[25] EN [54] <b>COMPOSITION AND METHOD FOR THE DIAGNOSIS AND TREATMENT OF IRON-RELATED DISORDERS</b> [54] <b>COMPOSITION ET METHODE POUR LE DIAGNOSTIC ET LE TRAITEMENT DE TROUBLES LIES AU FER</b> [72] MUELLER, BERNHARD, DE [72] POPP, ANDREAS, DE [72] PEREZ, JENNIFER M., US [71] ABBVIE DEUTSCHLAND GMBH &amp; CO. KG, DE [71] ABBVIE INC., US [22] 2012-12-13 [41] 2013-06-20 [62] 2,855,840 [30] US (61/570,715) 2011-12-14</p>
<p>[21] <b>3,203,071</b> [13] A1</p>	<p>[25] EN [54] <b>METHODS, SYSTEMS AND DEVICES FOR REDUCING IRON LOSSES IN AN ELECTRIC MACHINE EXCITED BY AN INVERTER POWER SUPPLY</b> [54] <b>METHODES, SYSTEMES ET DISPOSITIFS POUR REDUIRE LES PERTES DANS LE FER DANS UNE MACHINE ELECTRIQUE EXCITEE PAR UN BLOC D'ALIMENTATION A ONDULEUR</b> [72] OHSUGI, YASUO, JP [71] NIPPON STEEL CORPORATION, JP [22] 2019-09-20 [41] 2020-03-26 [62] 3,103,649 [30] JP (2018-177724) 2018-09-21</p>				

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,204,343**  
[13] A1

[51] **Int.Cl. C07K 16/42 (2006.01) C07K 14/735 (2006.01) C07K 16/00 (2006.01) C07K 19/00 (2006.01) C12N 15/10 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**

[25] EN  
[54] **RECOMBINANT CELL SURFACE CAPTURE PROTEINS**  
[54] **PROTEINES RECOMBINANTES DE CAPTURE DE SURFACE CELLULAIRE**

[72] DESHPANDE, DIPALI, US  
[72] CHEN, GANG, US  
[72] BURAKOV, DARYA, US  
[72] FANDL, JAMES, US  
[72] ALDRICH, THOMAS, US  
[72] KAMAT, VISHAL, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[22] 2013-11-14  
[41] 2014-05-22  
[62] 2,889,541  
[30] US (61/726,040) 2012-11-14

[21] **3,204,367**  
[13] A1

[25] EN  
[54] **PRODUCT DIVERSION MANAGEMENT**  
[54] **GESTION DU DETOURNEMENT DE PRODUITS**

[72] LANE, SANFORD, US  
[71] TRACKTECH SOLUTIONS CORP., CA  
[22] 2016-03-11  
[41] 2016-09-15  
[62] 2,979,532  
[30] US (62/132,444) 2015-03-12

[21] **3,204,372**  
[13] A1

[51] **Int.Cl. B01F 23/43 (2022.01) B01F 25/60 (2022.01) B01F 33/452 (2022.01) B01F 33/82 (2022.01)**

[25] EN  
[54] **SYSTEM AND METHOD FOR MAKING MICROSPHERES AND EMULSIONS**  
[54] **SYSTEME ET PROCEDE DE FABRICATION DE MICROSPHERES ET D'EMULSIONS**

[72] RICHEY, TRACY, US  
[72] GALASKA, RACHEL, US  
[72] CRAMER, SAMANTHA, US  
[72] MINAGHAN, FORD, US  
[72] MAHNEN, CORY, US  
[72] SMITH, MARK, US  
[72] MONDALEK, FADEE, US  
[71] OAKWOOD LABORATORIES, LLC, US  
[22] 2020-07-01  
[41] 2021-01-07  
[62] 3,144,281  
[30] US (62/869,220) 2019-07-01

[21] **3,204,382**  
[13] A1

[51] **Int.Cl. C03B 23/04 (2006.01) C03B 35/04 (2006.01) C03B 35/26 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR MEASURING THE TEMPERATURE OF GLASS DURING TUBE CONVERSION**  
[54] **SYSTEMES ET PROCEDES DE MESURE DE LA TEMPERATURE DU VERRE PENDANT LA CONVERSION DE TUBES**

[72] GAYLO, KEITH RAYMOND, US  
[72] KLINGENSMITH, LEWIS KIRK, US  
[72] MATUSICK, JOSEPH MICHAEL, US  
[72] O'MALLEY, CONNOR THOMAS, US  
[71] CORNING INCORPORATED, US  
[22] 2018-03-22  
[41] 2018-09-27  
[62] 3,057,618  
[30] US (62/476,408) 2017-03-24

[21] **3,204,396**  
[13] A1

[25] EN  
[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING MELOXICAM**  
[54] **COMPOSITIONS PHARMACEUTIQUES CONTENANT DU MELOXICAM**

[72] TABUTEAU, HERRIOT, US  
[71] AXSOME THERAPEUTICS, INC., US  
[22] 2016-04-11  
[41] 2016-08-18  
[62] 3,011,562  
[30] US (62/259993) 2015-11-25

[21] **3,204,400**  
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) G06F 3/04815 (2022.01) G06F 3/042 (2006.01)**

[25] EN  
[54] **GESTURAL INTERFACE WITH VIRTUAL CONTROL LAYERS**  
[54] **INTERFACE GESTUELLE AYANT DES COUCHES DE COMMANDE VIRTUELLES**

[72] CHIU, HSIEN-HSIANG, CA  
[71] CHIU, HSIEN-HSIANG, CA  
[22] 2015-05-29  
[41] 2015-12-17  
[62] 2,917,590  
[30] US (62/009,302) 2014-06-08  
[30] US (14/723,435) 2015-05-27

[21] **3,204,402**  
[13] A1

[25] EN  
[54] **STABLE ANTI-CXCR5 IGG4 ANTIBODY FORMULATIONS**  
[54] **PREPARATIONS D'ANTICORPS IGG4 STABLES ANTI-CXCR5**

[72] SCHNIEDERS, JULIA, US  
[72] USENER, DIRK, US  
[72] YOUSSEF, AHMED, US  
[72] HAGENDORF, ANNIKA, DE  
[72] KIRSCH, MARTINA, US  
[72] RUGGEBERG, SABRINA, US  
[71] SANOFI, FR  
[22] 2013-03-26  
[41] 2013-10-03  
[62] 3,123,252  
[30] US (61/615,539) 2012-03-26  
[30] FR (1351013) 2013-02-06

## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,204,405**  
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) G06F 3/04815 (2022.01) G06F 3/042 (2006.01)**

[25] EN

[54] **GESTURAL INTERFACE WITH VIRTUAL CONTROL LAYERS**

[54] **INTERFACE GESTUELLE AYANT DES COUCHES DE COMMANDE VIRTUELLES**

[72] CHIU, HSIEN-HSIANG, CA  
[71] CHIU, HSIEN-HSIANG, CA  
[22] 2015-05-29  
[41] 2015-12-17  
[62] 2,917,590  
[30] US (62/009,302) 2014-06-08  
[30] US (14/723,435) 2015-05-27

[21] **3,204,519**  
[13] A1

[25] EN

[54] **CLEANING DEVICE FOR A SUBMERGED SURFACE**

[54] **DISPOSITIF DE NETTOYAGE POUR UNE SURFACE IMMERGEE**

[72] MOLAUG, ANDERS, NO  
[72] MOLAUG, OLE, NO  
[72] AAMODT, HARALD, NO  
[72] MOLAUG, KNUT, NO  
[71] AQUA ROBOTICS AS, NO  
[22] 2019-01-22  
[41] 2019-08-01  
[62] 3,089,570  
[30] NO (20180118) 2018-01-25  
[30] NO (20181124) 2018-08-28

[21] **3,204,542**  
[13] A1

[25] EN

[54] **COMPOSITIONS AND METHODS FOR CONTROLLING HEAD BLIGHT DISEASE**

[54] **COMPOSITIONS ET METHODES DE LUTTE CONTRE LA MALADIE DE LA BRULURE DE L'EPI**

[72] GRANDLIC, CHRISTOPHER J., US  
[72] GREEN, WAYNE A., US  
[72] KEROVUO, JANNE S., US  
[72] MCCANN, RYAN T., US  
[71] MONSANTO TECHNOLOGY, LLC, US  
[22] 2012-07-24  
[41] 2013-01-31  
[62] 2,842,793  
[30] US (61/511,467) 2011-07-25

[21] **3,204,482**  
[13] A1

[25] EN

[54] **No Title Specified**

[54]

[72] KWON, HYUNTAEK, KR  
[72] KIM, DONGIK, KR  
[72] LEE, CHANGON, KR  
[72] CHO, SUNHO, KR  
[71] HYBE CO., LTD., KR  
[22] 2018-06-12  
[41] 2019-06-20  
[62] 3,085,421  
[30] US (62/597,437) 2017-12-12  
[30] KR (10-2018-0006304) 2018-01-17

[21] **3,204,520**  
[13] A1

[25] EN

[54] **ROTARY UNION WITH INTEGRAL SENSOR ARRAY**

[54] **RACCORD ROTATIF AVEC RESEAU DE CAPTEURS INTEGRE**

[72] PETROU, ANTON A., US  
[72] BUDZUS, CHRISTOPH, DE  
[72] GULIANA, SARGON, US  
[71] DEUBLIN COMPANY, US  
[22] 2017-01-27  
[41] 2017-08-10  
[62] 3,013,033  
[30] US (62/289,659) 2016-02-01  
[30] US (15/416,528) 2017-01-26

[21] **3,204,561**  
[13] A1

[25] EN

[54] **SYSTEM AND METHOD FOR SYRINGE FLUID FILL VERIFICATION AND IMAGE RECOGNITION OF POWER INJECTOR SYSTEM FEATURES**

[54] **SYSTEME ET PROCEDE POUR LA VERIFICATION DU REMPLISSAGE PAR UN FLUIDE D'UNE SERINGUE ET DE RECONNAISSANCE D'IMAGE DE CARACTERISTIQUES D'UN SYSTEME D'INJECTEUR DE PUISSANCE**

[21] **3,204,485**  
[13] A1

[25] EN

[54] **AUTOMATIC COFFEE MAKER AND PROCESS FOR PREPARING A COLD BREWED BEVERAGE**

[54] **CAFETIERE AUTOMATIQUE ET PROCEDE DE PREPARATION D'UNE BOISSON INFUSEE A FROID**

[72] ANTHONY, JOSHUA D., US  
[72] BROWN, ETHAN T., US  
[72] HAMMOND, SUZETTE, US  
[72] WOODROW, CHAD, US  
[71] SHARKNINJA OPERATING LLC, US  
[22] 2019-06-20  
[41] 2019-12-26  
[62] 3,104,644  
[30] US (62/688,056) 2018-06-21

[21] **3,204,524**  
[13] A1

[51] **Int.Cl. G06Q 40/08 (2012.01) G06Q 40/06 (2012.01)**

[25] EN

[54] **INVEST INSURANCE PREMIUMS**

[54]

[72] GILL, SANDEEP, CA  
[72] GILL, SANDEEP, CA  
[71] GILL, SANDEEP, CA  
[71] GILL, SANDEEP, CA  
[22] 2021-11-04  
[41] 2023-05-04

[72] COWAN, KEVIN P., US  
[72] SPOHN, MICHAEL A., US  
[72] MCDERMOTT, MICHAEL, US  
[72] GRUBIC, HERBERT M., US  
[72] PHALEN, HENRY, US  
[71] BAYER HEALTHCARE LLC, US  
[22] 2016-08-24  
[41] 2017-03-09  
[62] 2,996,527  
[30] US (62/211,462) 2015-08-28  
[30] US (62/259,824) 2015-11-25



**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,204,562**  
[13] A1

[25] EN  
[54] **NON-INVASIVE AND MINIMALLY INVASIVE LASER SURGERY FOR THE REDUCTION OF INTRAOCULAR PRESSURE IN THE EYE**  
[54] **CHIRURGIE LASER NON INVASIVE ET MINI-INVASIVE POUR LA REDUCTION DE LA PRESSION INTRAOCULAIRE DANS L'OEIL**  
[72] RAKSI, FERENC, US  
[71] VIALASE, INC., US  
[22] 2019-07-19  
[41] 2020-03-12  
[62] 3,111,508  
[30] US (16/125,588) 2018-09-07

[21] **3,204,588**  
[13] A1

[25] EN  
[54] **METHODS FOR DIAGNOSIS AND TREATMENT OF CROHN'S DISEASE**  
[54] **METHODES DE DIAGNOSTIC ET DE TRAITEMENT DE LA MALADIE DE CROHN**  
[72] TARGAN, STEPHAN R., US  
[72] LANDERS, CAROL J., US  
[71] CEDARS-SINAI MEDICAL CENTER, US  
[22] 2005-12-08  
[41] 2006-06-15  
[62] 2,589,746  
[30] US (60/634,339) 2004-12-08

[21] **3,204,599**  
[13] A1

[25] EN  
[54] **5HT AGONISTS FOR TREATING DISORDERS**  
[54] **AGONISTES DE RECEPTEUR 5HT POUR LE TRAITEMENT DE TROUBLES**  
[72] BARABAN, SCOTT C., US  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[22] 2016-02-24  
[41] 2016-09-01  
[62] 2,977,135  
[30] US (62/120,726) 2015-02-25

[21] **3,204,616**  
[13] A1

[25] EN  
[54] **CROWDSOURCING OF TRUSTWORTHINESS INDICATORS**  
[54] **EXTERNALISATION OUVERTE D'INDICATEURS DE FIABILITE**  
[72] CHAN, LEO M., CA  
[72] MAWJI, ASHIF, CA  
[71] WWW.TRUSTSCIENCE.COM INC., CA  
[22] 2017-02-28  
[41] 2017-09-08  
[62] 3,015,926  
[30] US (15/056,484) 2016-02-29

[21] **3,204,747**  
[13] A1

[25] EN  
[54] **AGRICULTURAL TRENCH DEPTH SENSING SYSTEMS, METHODS, AND APPARATUS**  
[54] **SYSTEMES, PROCEDES ET APPAREIL DE DETECTION DE PROFONDEUR DE TRANCHEE AGRICOLE**  
[72] SAUDER, DEREK, US  
[72] STOLLER, JASON, US  
[72] RADTKE, IAN, US  
[72] LEVY, KENT, US  
[71] PRECISION PLANTING LLC, US  
[22] 2013-10-24  
[41] 2014-05-01  
[62] 3,077,900  
[30] US (61/718,073) 2012-10-24

[21] **3,204,763**  
[13] A1

[25] EN  
[54] **TOOL WITH SURFACES WITH A COMPRESSIVE SURFACE STRESS LAYER**  
[54] **OUTIL PRESENTANT DES SURFACES AYANT UNE COUCHE DE CONTRAINTE DE COMPRESSION DE SURFACE**  
[72] KUTER-ARNEBECK, OTTOLEO, US  
[72] ROSS, DAVID T., US  
[71] SNAP-ON INCORPORATED, US  
[22] 2022-01-18  
[41] 2022-07-26  
[62] 3,145,934  
[30] US (17/158,551) 2021-01-26

[21] **3,204,788**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) C07K 16/00 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**  
[25] EN  
[54] **ANTIBODIES COMPRISING AN ANTIGEN-BINDING SITE THAT SPECIFICALLY BINDS TO TWO DIFFERENT EPITOPES AND METHODS OF MAKING THEM**  
[54] **ANTICORPS COMPRENANT UN SITE DE LIAISON D'ANTIGENES SE LIANT PRECISEMENT A DEUX DETERMINANTS ANTIGENIQUES DIFFERENTS, ET METHODES DE PRODUCTION**  
[72] FUH, GERMAINE, US  
[72] LEE, CHINGWEI V., US  
[72] KOENIG, PATRICK, US  
[71] GENENTECH, INC., US  
[22] 2014-12-18  
[41] 2015-06-25  
[62] 2,931,113  
[30] US (61/919,552) 2013-12-20  
[30] US (61/946,547) 2014-02-28

[21] **3,204,792**  
[13] A1

[51] **Int.Cl. B32B 3/02 (2006.01) B32B 3/24 (2006.01) B32B 3/26 (2006.01) B32B 18/00 (2006.01) B32B 38/10 (2006.01)**  
[25] EN  
[54] **CERAMIC MATRIX COMPOSITE COMPONENT INCLUDING COOLING CHANNELS AND METHOD OF PRODUCING**  
[54] **COMPOSANT COMPOSITE MATRICIEL CERAMIQUE Y COMPRIS DES CANAUX DE REFROIDISSEMENT ET PROCEDE DE FABRICATION**  
[72] DYSON, THOMAS EARL, US  
[72] HOCKEMEYER, MATTHEW HARPER, US  
[71] GENERAL ELECTRIC COMPANY, US  
[22] 2020-12-09  
[41] 2021-06-20  
[62] 3,102,026  
[30] US (16/723,059) 2019-12-20

## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

<p style="text-align: right;">[21] <b>3,204,793</b> [13] A1</p> <p>[25] EN [54] <b>AUTOMATED DETECTION OF PLUG AND PERFORATE COMPLETIONS, WELLHEADS AND WELLSITE OPERATION STATUS</b> [54] <b>DETECTION AUTOMATISEE DE COMPLETIONS DE BOUCHON ET DE PERFORATION, DE TETES DE Puits ET D'ETAT DE FONCTIONNEMENT DE SITE DE FORAGE</b> [72] WARNER, WILLIAM DEAN, CA [72] BERGMANN, CRAIG ANTHONY, CA [72] PACURARI, NICOLAI CALIN, CA [72] NUNEZ, HECTOR ARTURO, CA [71] COLD BORE TECHNOLOGY INC., CA [22] 2020-11-25 [41] 2021-06-03 [62] 3,161,987 [30] US (62/940,226) 2019-11-25</p> <hr/> <p style="text-align: right;">[21] <b>3,204,801</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 31/519 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01)</b> [25] EN [54] <b>COMBINATION THERAPY WITH 7-BENZYL-10-(2-METHYLBENZYL)-2,6,7,8,9,10-HEXAHYDROIMIDAZO[1,2-A]PYRIDO[4,3-D]PYRIMIDIN-5(3H)-ONE</b> [54] <b>THERAPIE COMBINEE AVEC DE LA 7-BENZYL-10-(2-METHYLBENZYL)-2,6,7,8,9,10-HEXAHYDRO-IMIDAZO[1,2-A]PYRIDO[4,3-D]PYRIMIDIN-5(3H)-ONE</b> [72] STOGNIEW, MARTIN, US [72] ALLEN, JOSHUA E., US [72] POTTORF, RICHARD S., US [72] NALLAGANCHU, BHASKARA RAO, US [72] OLSON, GARY L., US [71] ONCOCEUTICS, INC., US [22] 2014-03-13 [41] 2014-10-02 [62] 2,905,037 [30] US (61/779,828) 2013-03-13 [30] US (61/904,718) 2013-11-15</p>	<p style="text-align: right;">[21] <b>3,204,840</b> [13] A1</p> <p>[25] EN [54] <b>UNCOUPLING MAT</b> [54] <b>TAPIS DE DEGAGEMENT</b> [72] SCHLUTER, WERNER, DE [71] SCHLUTER SYSTEMS (CANADA) INC., CA [22] 2018-02-21 [41] 2018-09-09 [62] 3,064,261 [30] DE (20 2017 101 349.9) 2017-03-09</p> <hr/> <p style="text-align: right;">[21] <b>3,204,845</b> [13] A1</p> <p>[25] EN [54] <b>CIP WASH SUMMARY AND LIBRARY</b> [54] <b>RESUME ET BIBLIOTHEQUE DE LAVAGE PAR CIP</b> [72] CURRAN, JOSEPH P., US [72] JENSEN, FINN, DK [72] KINGSBURY, JONATHAN, US [72] SCHACHT, PAUL, US [72] YOUNG, JULI, US [72] KROHN, JAMES, US [71] ECOLAB USA INC., US [22] 2015-08-04 [41] 2016-02-18 [62] 2,954,536 [30] US (62/038,003) 2014-08-15</p> <hr/> <p style="text-align: right;">[21] <b>3,204,893</b> [13] A1</p> <p>[25] EN [54] <b>AGRICULTURAL TRENCH DEPTH SENSING SYSTEMS, METHODS, AND APPARATUS</b> [54] <b>SYSTEMES, PROCEDES ET APPAREIL DE DETECTION DE PROFONDEUR DE TRANCHEE AGRICOLE</b> [72] SWANSON, TODD, US [72] KOCH, DALE, US [72] VACCARI, ADAM, US [72] TRAVIS, DEXTER, US [72] HARMAN, REID, US [72] STRNAD, MICHAEL, US [72] HODEL, JEREMY, US [71] PRECISION PLANTING LLC, US [22] 2017-07-24 [41] 2018-01-25 [62] 3,031,105 [30] US (62/365,585) 2016-07-22 [30] US (62/491,707) 2017-04-28</p>	<p style="text-align: right;">[21] <b>3,204,899</b> [13] A1</p> <p>[25] EN [54] <b>AGRICULTURAL TRENCH DEPTH SENSING SYSTEMS, METHODS, AND APPARATUS</b> [54] <b>SYSTEMES, PROCEDES ET APPAREIL DE DETECTION DE PROFONDEUR DE TRANCHEE AGRICOLE</b> [72] SWANSON, TODD, US [72] KOCH, DALE, US [72] VACCARI, ADAM, US [72] TRAVIS, DEXTER, US [72] HARMAN, REID, US [72] STRNAD, MICHAEL, US [72] HODEL, JEREMY, US [71] PRECISION PLANTING LLC., US [22] 2017-07-24 [41] 2018-01-25 [62] 3,031,105 [30] US (62/365,585) 2016-07-22 [30] US (62/491,707) 2017-04-28</p> <hr/> <p style="text-align: right;">[21] <b>3,204,925</b> [13] A1</p> <p>[25] EN [54] <b>7-BENZYL-4-(2,4-DIFLUOROBENZYL)-2,4,6,7,8,9-HEXAHYDROIMIDAZO[1,2-A]PYRIDO[3,4-E]PYRIMIDIN-5(1H)-ONE, SALTS THEREOF AND METHODS OF USE</b> [54] <b>7-BENZYL-4-(2,4-DIFLUOROBENZYL)-2,4,6,7,8,9-HEXAHYDROIMIDAZO[1,2-A]PYRIDO[3,4-E]PYRIMIDIN-5(1H)-ONE, SALTS THEREOF AND METHODS OF USE</b> [72] STOGNIEW, MARTIN, US [72] ALLEN, JOSHUA E., US [72] POTTORF, RICHARD S., US [72] NALLAGANCHU, BHASKARA RAO, US [72] OLSON, GARY L., US [71] ONCOCEUTICS, INC., US [22] 2014-09-12 [41] 2015-05-21 [62] 2,930,535 [30] US (61/904,718) 2013-11-15 [30] US (14/208,657) 2014-03-13 [30] US (14/341,392) 2014-07-25 [30] US (PCT/US2014/048241) 2014-07-25</p>
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