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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.

### 4. Late payment fee

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

### Preliminary Examination

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

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

\* International fees will be reduced by:

- \$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).

## 12. PCT Notices

### Patent Cooperation Treaty (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.

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

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

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. Taxe pour paiement tardif

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

### Examen préliminaire

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

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

\* Les frais seront réduits de:

- 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. Avis PCT

### Traité de Coopération en matière de brevets (PCT)

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.

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 :

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

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

## Notices

### Patents

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

### 2.2 Online

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

### Patents

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

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

### Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

### Trademarks

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

### Brevets

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

### 2.2 En ligne

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

### Brevets

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

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

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

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

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

### Marques de commerce

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



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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



## Avis

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

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

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

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

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

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

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

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

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

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

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

### 6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé<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 January 30, 2024 contains applications open to public inspection from January 14, 2024 to January 20, 2024.

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

La *Gazette du bureau des brevets* du 30 janvier 2024 contient les demandes disponibles au public pour consultation pour la période du 14 janvier 2024 au 20 janvier 2024.

# Canadian Patents Issued

January 30, 2024

## Brevets canadiens délivrés

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[13] C  
[51] **Int.Cl. A61M 1/34 (2006.01) A61M 1/36 (2006.01) B01D 27/00 (2006.01)**  
[25] EN  
[54] **CYTOPHERETIC CARTRIDGE AND USE THEREOF**  
[54] **CARTOUCHE DE CYTOPHERESE ET SON UTILISATION**  
[72] HUMES, H. DAVID, US  
[72] BUFFINGTON, DEBORAH, US  
[72] PINO, CHRISTOPHER J., US  
[73] SEASTAR MEDICAL, INC., US  
[85] 2013-04-11  
[86] 2011-10-14 (PCT/US2011/056469)  
[87] (WO2012/051595)  
[30] US (61/393,805) 2010-10-15

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[11] **2,849,464**  
[13] C  
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/68 (2017.01) C07K 14/50 (2006.01) C07K 16/00 (2006.01)**  
[25] EN  
[54] **FUSION PROTEINS FOR TREATING METABOLIC DISORDERS**  
[54] **PROTEINES DE FUSION POUR LE TRAITEMENT DE TROUBLES DU METABOLISME**  
[72] BOETTCHER, BRIAN R., US  
[72] CAPLAN, SHARI L., US  
[72] DANIELS, DOUGLAS S., US  
[72] HAMAMATSU, NORIO, US  
[72] LICHT, STUART, US  
[72] WELDON, STEPHEN CRAIG, US  
[73] NOVARTIS AG, CH  
[85] 2014-03-20  
[86] 2012-09-26 (PCT/US2012/057384)  
[87] (WO2013/049247)  
[30] US (61/539,280) 2011-09-26

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[11] **2,889,055**  
[13] C  
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**  
[25] EN  
[54] **M971 CHIMERIC ANTIGEN RECEPTORS**  
[54] **RECEPTEURS D'ANTIGENE CHIMERIQUE M971**  
[72] ORENTAS, RIMAS J., US  
[72] PASTAN, IRA H., US  
[72] DIMITROV, DIMITER S., US  
[72] MACKALL, CRYSTAL L., US  
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US  
[85] 2015-04-22  
[86] 2013-09-18 (PCT/US2013/060332)  
[87] (WO2014/065961)  
[30] US (61/717,960) 2012-10-24

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[11] **2,899,602**  
[13] C  
[51] **Int.Cl. A61K 33/00 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL USES OF INORGANIC NITRITES**  
[54] **USAGES PHARMACEUTIQUES DE NITRITES INORGANIQUES**  
[72] KEVIL, CHRISTOPHER, US  
[72] CHAN, KYLE, US  
[72] SOIN, AMOL, US  
[73] BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE, US  
[85] 2015-07-28  
[86] 2014-02-20 (PCT/US2014/017432)  
[87] (WO2014/130691)  
[30] US (61/767,017) 2013-02-20

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[11] **2,904,306**  
[13] C  
[51] **Int.Cl. H01Q 5/307 (2015.01) H01Q 5/392 (2015.01) H04B 7/0413 (2017.01) H01Q 1/42 (2006.01) H01Q 9/04 (2006.01)**  
[25] EN  
[54] **A MOBILE DEVICE HAVING AN INTERIOR MULTIBAND ANTENNA AND A PARTIALLY METAL BACK**  
[54] **UN DISPOSITIF MOBILE COMPORTANT UNE ANTENNE MULTIBANDE INTERIEURE ET UN ENDOS METALLIQUE PARTIEL**  
[72] WANG, DONG, CA  
[72] ALI, SHIROOK M., CA  
[73] BLACKBERRY LIMITED, CA  
[86] (2904306)  
[87] (2904306)  
[22] 2015-09-14  
[30] US (14/486724) 2014-09-15

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[11] **2,912,611**  
[13] C  
[51] **Int.Cl. A61K 31/185 (2006.01) A61P 25/28 (2006.01)**  
[25] EN  
[54] **HOMOTAURINE COMPOUNDS, COMPOSITIONS AND FORMULATIONS FOR ANIMAL CARE**  
[54] **COMPOSES D'HOMOTAURINE, COMPOSITIONS ET FORMULATIONS DESTINES AUX SOINS ANIMALIERS**  
[72] BELLINI, FRANCESCO, CA  
[72] HEBERT, LISE, CA  
[73] FB MARIA SRL, IT  
[86] (2912611)  
[87] (2912611)  
[22] 2015-11-18

**Brevets canadiens délivrés  
30 janvier 2024**

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[13] C

[51] **Int.Cl. C12N 9/02 (2006.01) C12N 15/53 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **DOWNY MILDEW RESISTANCE PROVIDING GENES IN SUNFLOWER**

[54] **GENES DE RESISTANCE AU MILDIU CHEZ LE TOURNESOL**

[72] VAN SCHIE, CHRISTIANUS  
CORNELIS NICOLAAS, NL

[72] ZEILMAKER, TIEME, NL

[73] SCIENZA BIOTECHNOLOGIES 5 B.V., NL

[85] 2016-01-19

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[87] (WO2015/011101)

[30] EP (PCT/EP2013/065397) 2013-07-22

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[11] **2,919,076**  
[13] C

[51] **Int.Cl. C07K 16/00 (2006.01) A61K 39/395 (2006.01) C07K 19/00 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **STABILIZATION OF FC-CONTAINING POLYPEPTIDES**

[54] **STABILISATION DE POLYPEPTIDES CONTENANT UNE FC**

[72] KANNAN, GUNASEKARAN, US

[72] LAVALLEE, JENNIFER, US

[72] JACOBSEN, FREDERICK W., US

[73] AMGEN INC., US

[85] 2016-01-21

[86] 2014-07-30 (PCT/US2014/048908)

[87] (WO2015/017548)

[30] US (61/860,800) 2013-07-31

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[11] **2,920,610**  
[13] C

[51] **Int.Cl. F01D 21/00 (2006.01) F02C 7/00 (2006.01)**

[25] EN

[54] **SYSTEM FOR BRAKING A LOW PRESSURE SPOOL IN A GAS TURBINE ENGINE**

[54] **SYSTEME DE FREINAGE D'UN CORPS BASSE PRESSION DANS UN MOTEUR DE TURBINE A GAZ**

[72] GATES, PATRICK, CA

[72] BIBOR, OLIVIER, CA

[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2920610)

[87] (2920610)

[22] 2016-02-10

[30] US (14/633,565) 2015-02-27

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[11] **2,923,726**  
[13] C

[51] **Int.Cl. C12N 15/31 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A01P 7/04 (2006.01) C07K 14/21 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 15/63 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **INSECTICIDAL PROTEINS AND METHODS FOR THEIR USE**

[54] **PROTEINES INSECTICIDES ET LEURS PROCÉDES D'UTILISATION**

[72] DIEHN, SCOTT, US

[72] ENGLISH, JAMES, US

[72] LIU, LU, US

[72] ONG, AZALEA, US

[72] ORAL, JARRED, US

[72] ROSEN, BARBARA, US

[72] SCHELLENBERGER, UTE, US

[72] UDRANSZKY, INGRID, US

[72] WEI, JUN-ZHI, US

[72] XIE, WEIPING, US

[72] ZHU, GENHAI, US

[73] PIONEER HI-BRED INTERNATIONAL, INC., US

[85] 2016-03-08

[86] 2014-09-11 (PCT/US2014/055128)

[87] (WO2015/038734)

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[11] **2,925,707**  
[13] C

[51] **Int.Cl. G08B 29/22 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF NEAR FIELD COMMUNICATION ENABLED DEVICE PROGRAMMING**

[54] **SYSTEME ET METHODE DE PROGRAMMATION DE DISPOSITIF ACTIVE PAR COMMUNICATION EN CHAMP PROCHE**

[72] BEREZOWSKI, ANDREW G., US

[72] KORE, VINAYAK SADASHIV, US

[72] OTIS, JESSE J., US

[73] HONEYWELL INTERNATIONAL INC., US

[86] (2925707)

[87] (2925707)

[22] 2016-03-31

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[11] **2,926,536**  
[13] C

[51] **Int.Cl. C12N 15/82 (2006.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **OPTIMAL SOYBEAN LOCI FOR TARGETED TRANSGENE INTEGRATION**

[54] **LOCUS DE SOJA OPTIMAUX POUR UNE INTEGRATION TRANSGENE INTEGREE**

[72] SASTRY-DENT, LAKSHMI, US

[72] CAO, ZEHUI, US

[72] SRIRAM, SHREEDHARAN, US

[72] WEBB, STEVEN R., US

[72] CAMPER, DEBRA L., US

[72] AINLEY, MICHAEL W., US

[73] CORTEVA AGRISCIENCE LLC, US

[85] 2016-04-05

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[30] US (61/899,602) 2013-11-04

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[13] C

[51] **Int.Cl. G16B 20/10 (2019.01) G16B 30/00 (2019.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **METHOD FOR IMPROVING THE SENSITIVITY OF DETECTION IN DETERMINING COPY NUMBER VARIATIONS**  
[54] **PROCEDE DESTINE A L'AMELIORATION DE LA SENSIBILITE DE DETECTION DANS LA DETEMRINATION DES VARIATIONS DU NOMBRE DE COPIES**  
[72] CHUDOVA, DARYA I., US  
[72] ABDUEVA, DIANA, US  
[72] RAVA, RICHARD P., US  
[73] VERINATA HEALTH, INC., US  
[85] 2016-04-20  
[86] 2014-10-21 (PCT/US2014/061635)  
[87] (WO2015/061359)  
[30] US (61/893,830) 2013-10-21

[11] **2,929,659**  
[13] C

[51] **Int.Cl. H04L 9/08 (2006.01) G06F 21/62 (2013.01) H04L 9/06 (2006.01)**  
[25] EN  
[54] **FAIR CREDIT SCREENED MARKET DATA DISTRIBUTION**  
[54] **DISTRIBUTION EQUITABLE DE DONNEES DE MARCHE SELECTIONNEES PAR CREDIT**  
[72] MELTON, HAYDEN PAUL, US  
[73] REFINITIV US ORGANIZATION LLC, US  
[85] 2016-05-04  
[86] 2014-11-10 (PCT/US2014/064758)  
[87] (WO2015/070126)  
[30] US (61/901,551) 2013-11-08  
[30] US (14/535,776) 2014-11-07

[11] **2,932,220**  
[13] C

[51] **Int.Cl. A61B 17/115 (2006.01)**  
[25] EN  
[54] **ANVIL ASSEMBLIES AND DELIVERY SYSTEMS**  
[54] **ASSEMBLAGES D'ENCLUME ET MECANISMES DE DISTRIBUTION**  
[72] SGROI, ANTHONY, JR., US  
[72] MOZDZIERZ, PATRICK, US  
[73] COVIDIEN LP, US  
[86] (2932220)  
[87] (2932220)  
[22] 2016-06-06  
[30] US (14/790,227) 2015-07-02

[11] **2,933,800**  
[13] C

[51] **Int.Cl. B60S 3/04 (2006.01)**  
[25] EN  
[54] **WASH FLUID CONTAINMENT SYSTEM**  
[54] **SYSTEME DE CONFINEMENT DE FLUIDE DE LAVAGE**  
[72] TISDALE, MICHAEL AARON, CA  
[73] TISDALE, MICHAEL AARON, CA  
[86] (2933800)  
[87] (2933800)  
[22] 2016-06-21

[11] **2,933,908**  
[13] C

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/107 (2006.01) A61K 31/436 (2006.01)**  
[25] EN  
[54] **ORAL RAPAMYCIN NANOPARTICLE PREPARATIONS AND USE**  
[54] **PREPARATIONS ORALES DE NANOPARTICULES DE RAPAMYCINE, ET UTILISATION**  
[72] VAIL, NEAK K., US  
[72] VAUGHN, DANA M., US  
[73] RAPAMYCIN HOLDINGS, LLC, US  
[85] 2016-06-14  
[86] 2014-12-31 (PCT/US2014/073097)  
[87] (WO2015/103447)  
[30] US (61/922,800) 2013-12-31  
[30] US (61/980,095) 2014-04-16  
[30] US (62/040,000) 2014-08-21

[11] **2,935,524**  
[13] C

[51] **Int.Cl. F24F 9/00 (2006.01) F24F 11/50 (2018.01) F24F 11/63 (2018.01)**  
[25] EN  
[54] **ENHANCED TECHNIQUES FOR AIR CURTAIN CONTROL**  
[54] **TECHNIQUES AMELIOREES DE CONTROLE D'UN RIDEAU D'AIR**  
[72] THOMAS, PHILIP M., JR., US  
[72] CHIA, LIH WEI, SG  
[72] SEOW, YAN YI, SG  
[72] POH, YEE HUI, SG  
[73] BERNER INTERNATIONAL CORPORATION, US  
[86] (2935524)  
[87] (2935524)  
[22] 2016-07-08  
[30] US (14/794,034) 2015-07-08

[11] **2,936,817**  
[13] C

[51] **Int.Cl. G06F 17/10 (2006.01) G01V 9/00 (2006.01)**  
[25] EN  
[54] **AUTOMATIC CARTESIAN GRIDDING WITH LOGARITHMIC REFINEMENT AT ARBITRARY LOCATIONS**  
[54] **MAILLAGE CARTESIEN AUTOMATIQUE AVEC RAFFINEMENT LOGARITHMIQUE A DES EMBLACEMENTS ARBITRAIRES**  
[72] NGUYEN, VIET HOAI, US  
[73] CONOCOPHILLIPS COMPANY, US  
[85] 2016-07-13  
[86] 2015-01-13 (PCT/US2015/011201)  
[87] (WO2015/108865)  
[30] US (61/927,561) 2014-01-15  
[30] US (14/595,684) 2015-01-13

[11] **2,937,193**  
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 31/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR TREATING INFECTIOUS DISEASES USING A COMPOSITION COMPRISING PLASMA-DERIVED IMMUNOGLOBULIN M(IGM)**  
[54] **METHODE DE TRAITEMENT DE MALADIES INFECTIEUSES EMPLOYANT UNE COMPOSITION RENFERMANT UNE IMMUNOGLOBINE M (IGM) DERIVEE DU PLASMA**  
[72] BARNETT, THOMAS, US  
[72] ROSS, DAVID A., US  
[73] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE  
[86] (2937193)  
[87] (2937193)  
[22] 2016-07-25  
[30] US (62/201.910) 2015-08-06

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30 janvier 2024**

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[11] **2,938,192**  
[13] C

[51] **Int.Cl. F04D 1/06 (2006.01) F04D 13/02 (2006.01) F04D 29/22 (2006.01) F04D 29/44 (2006.01)**

[25] EN

[54] **HORIZONTAL PUMPING SYSTEM WITH PRIMARY STAGE ASSEMBLY AND SEPARATE NPSH STAGE ASSEMBLY**

[54] **SYSTEME DE POMPAGE HORIZONTAL DOTE D'UN MECANISE D'ETAGE PRIMAIRE ET D'UN MECANISME D'ETAGE NPSH SEPRE**

[72] GAHLOT, VISHAL, US

[72] LOVELESS, COLBY LANE, US

[72] JAMES, MARK, US

[72] ERLER, SCOTT RICHARD, US

[73] BAKER HUGHES ESP, INC., US

[86] (2938192)

[87] (2938192)

[22] 2016-08-04

[30] US (14/828,623) 2015-08-18

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[11] **2,939,919**  
[13] C

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 16/90 (2019.01) G06F 16/903 (2019.01) G06F 11/30 (2006.01)**

[25] EN

[54] **RESOURCE PROVISIONING SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE FOURNITURE DE RESSOURCES**

[72] DAGEVILLE, BENOIT, US

[72] CRUANES, THIERRY, US

[72] ZUKOWSKI, MARCIN, US

[73] SNOWFLAKE INC., US

[85] 2016-08-16

[86] 2015-02-19 (PCT/US2015/016614)

[87] (WO2015/127076)

[30] US (61/941,986) 2014-02-19

[30] US (14/518,898) 2014-10-20

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[11] **2,940,076**  
[13] C

[51] **Int.Cl. G02B 6/36 (2006.01) E21B 47/135 (2012.01) E21B 47/12 (2012.01)**

[25] EN

[54] **OPTICAL FIBRE QUICK CONNECT BOX**

[54] **BOITE DE RACCORD RAPIDE DE FIBRE OPTIQUE**

[72] RATCLIFFE, JAMES DAVID, GB

[72] GILL, TIMOTHY, GB

[72] HARRIS, NEIL GEOFFREY, GB

[72] HAMBLIN, CHRISTOPHER PAUL, GB

[73] SONDEX WIRELINE LIMITED, GB

[86] (2940076)

[87] (2940076)

[22] 2016-08-25

[30] US (14/843,760) 2015-09-02

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[11] **2,943,248**  
[13] C

[51] **Int.Cl. F16J 15/3204 (2016.01)**

[25] EN

[54] **SEAL ASSEMBLY FOR SEALING A SPACE BETWEEN A HOUSING AND A COMPONENT AGAINST ENTRY OF A LIQUID MEDIUM**

[54] **ASSEMBLAGE DE JOINT SERVANT A ETANCHEISER UN ESPACE ENTRE UN LOGEMENT ET UNE COMPOSANTE CONTRE L'ENTREE D'UN MILIEU LIQUIDE**

[72] BAUMANN, MICHAEL, DE

[72] KOGLER, CHRISTIAN, AT

[73] AKTIEBOLAGET SKF, SE

[86] (2943248)

[87] (2943248)

[22] 2016-09-27

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[11] **2,948,566**  
[13] C

[51] **Int.Cl. A63G 21/18 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR FASTENING OF INFLATABLE RIDE SURFACES**

[54] **METHODE ET APPAREIL DE FIXATION DE SURFACES DE MANEGE GONFLABLE**

[72] KOIDE, BRAD, US

[72] MYRMAN, MARSHALL COREY, US

[73] WHITEWATER WEST INDUSTRIES, LTD., CA

[86] (2948566)

[87] (2948566)

[22] 2016-11-14

[30] US (62/254,631) 2015-11-12

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[11] **2,950,635**  
[13] C

[51] **Int.Cl. B66F 9/06 (2006.01) B60G 99/00 (2010.01) B66F 9/075 (2006.01) F16F 15/04 (2006.01) F16F 15/067 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR A MATERIAL HANDLING VEHICLE WITH A FLOOR SUSPENSION**

[54] **SYSTEMES ET METHODES DESTINES A UN VEHICULE DEPLACANT DU MATERIEL AYANT UNE SUSPENSION AU PLANCHER**

[72] STANDARD, ADAM WAYNE, US

[73] THE RAYMOND CORPORATION, US

[86] (2950635)

[87] (2950635)

[22] 2016-12-02

[30] US (62/262,461) 2015-12-03

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[11] **2,953,966**  
[13] C

[51] **Int.Cl. G01M 9/06 (2006.01) F01D 9/02 (2006.01) G01M 15/14 (2006.01)**

[25] EN

[54] **USING SCANNED VANES TO DETERMINE EFFECTIVE FLOW AREAS**

[54] **UTILISATION DE LA NUMERISATION DES AUBES POUR DETERMINER LES SURFACES D'ECOULEMENT EFFICACES**

[72] BURKETT, BRADLEY W., US

[73] ROLLS-ROYCE ENGINE SERVICES-OAKLAND INC., US

[86] (2953966)

[87] (2953966)

[22] 2017-01-09

[30] US (14/995,781) 2016-01-14

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[11] **2,955,392**  
[13] C

[51] **Int.Cl. A61L 27/50 (2006.01) A61B 17/58 (2006.01) A61F 2/28 (2006.01)**  
[25] EN  
[54] **ANISOTROPIC BIOCOMPOSITE MATERIAL, MEDICAL IMPLANTS COMPRISING SAME AND METHODS OF TREATMENT THEREOF**  
[54] **MATERIAU BIOCOMPOSITE ANISOTROPE, IMPLANTS MEDICAUX LE COMPRENANT ET DES PROCEDES DE TRAITEMENT ASSOCIES**  
[72] PREISS-BLOOM, ORAHN, IL  
[72] LINDNER, TALY PNINA, IL  
[73] OSSIO LTD., IL  
[85] 2017-01-17  
[86] 2015-09-07 (PCT/IL2015/050903)  
[87] (WO2016/035088)  
[30] US (62/047,023) 2014-09-07

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[11] **2,960,442**  
[13] C

[51] **Int.Cl. C09C 1/24 (2006.01) C01G 49/06 (2006.01)**  
[25] EN  
[54] **PRODUCTION OF RED IRON OXIDE PIGMENTS**  
[54] **PREPARATION DE PIGMENTS D'OXYDE DE FER ROUGES**  
[72] CZAPLIK, WALDEMAR, DE  
[72] KETTELER, GUIDO, DE  
[72] KISCHKEWITZ, JURGEN, DE  
[73] LANXESS DEUTSCHLAND GMBH, DE  
[85] 2017-03-02  
[86] 2015-09-04 (PCT/EP2015/070201)  
[87] (WO2016/034694)  
[30] EP (14183797.1) 2014-09-05

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[11] **2,960,670**  
[13] C

[51] **Int.Cl. C22C 38/40 (2006.01) C22C 38/06 (2006.01)**  
[25] EN  
[54] **A STEEL FOR A LEAD COOLED REACTOR**  
[54] **ACIER POUR REACTEUR REFROIDI AU PLOMB**  
[72] SZAKALOS, PETER, SE  
[72] EJENSTAM, JESPER, SE  
[72] WALLENIUS, JANNE, SE  
[73] BLYKALLA AB, SE  
[85] 2017-03-08  
[86] 2015-09-15 (PCT/SE2015/000058)  
[87] (WO2016/039679)  
[30] SE (1430130-3) 2014-09-14

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[11] **2,961,421**  
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)**  
[25] EN  
[54] **A METHOD OF TREATING SOLID CANCERS AND/OR METASTASES THEREOF, MEDICAMENTS THEREFORE, AND A METHOD OF PREDICTING THE CLINICAL OUTCOME OF TREATING SOLID CANCERS AND/OR METASTASES THEREOF**  
[54] **PROCEDE DE TRAITEMENT DE CANCERS SOLIDES ET/OU DE METASTASES DE CEUX-CI, MEDICAMENTS A CET EFFET, ET PROCEDE DE PREDICTION DES RESULTATS CLINIQUES DU TRAITEMENT DE CANCERS SOLIDES ET/OU DE METASTASES DE CELUI-CI**  
[72] STRAUB, JOSEF, DE  
[72] STAUB, EIKE, DE  
[73] MERCK PATENT GMBH, DE  
[85] 2017-03-15  
[86] 2015-08-18 (PCT/EP2015/001699)  
[87] (WO2016/041614)  
[30] US (62/051,530) 2014-09-17

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[11] **2,961,648**  
[13] C

[51] **Int.Cl. C11B 3/02 (2006.01) C10G 1/00 (2006.01) C10G 29/00 (2006.01) C10G 29/04 (2006.01) C11B 1/00 (2006.01) C11B 1/12 (2006.01) C11B 3/00 (2006.01)**  
[25] EN  
[54] **CATALYTIC HYDROTHERMAL LIQUEFACTION FOR BIO-OIL PRODUCTION**  
[54] **LIQUEFACTION HYDROTHERMALE CATALYTIQUE DESTINEE A LA PRODUCTION DE BIOCARBURANT**  
[72] HART, TOOD R., US  
[72] ELLIOTT, DOUGLAS C., US  
[72] SCHMIDT, ANDREW J., US  
[72] HALLEN, RICHARD T., US  
[73] BATTELLE MEMORIAL INSTITUTE, US  
[86] (2961648)  
[87] (2961648)  
[22] 2017-03-22  
[30] US (15/195,553) 2016-06-28

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[11] **2,963,274**  
[13] C

[51] **Int.Cl. C07K 14/74 (2006.01) A61K 38/00 (2006.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01)**  
[25] EN  
[54] **INSERTABLE VARIABLE FRAGMENTS OF ANTIBODIES AND MODIFIED A1-A2 DOMAINS OF NKG2D LIGANDS**  
[54] **FRAGMENTS VARIABLES INSERABLES D'ANTICORPS ET DOMAINES A1-A2 MODIFIES DE LIGANDS NKG2D**  
[72] LANDGRAF, KYLE, US  
[72] STEIGER, DANIEL, US  
[72] WILLIAMS, STEVEN R., US  
[72] MARTIN, DAVID W., US  
[73] XYPHOS BIOSCIENCES INC., US  
[85] 2017-03-30  
[86] 2015-12-04 (PCT/US2015/064051)  
[87] (WO2016/090278)  
[30] US (62/088,456) 2014-12-05

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[11] **2,963,384**  
[13] C

[51] **Int.Cl. E05F 15/60 (2015.01) E05F 15/605 (2015.01) E05D 15/26 (2006.01)**  
[25] EN  
[54] **BI-FOLD DOOR LATCH ASSEMBLY AND FLOOR ANCHOR ASSEMBLY**  
[54] **MECANISME DE VERROU DE PORTE PLIANTE ET DISPOSITIF D'ANCRAGE AU PLANCHER**  
[72] SCHWEISS, MICHAEL L., US  
[73] SORREL QUARTERS, LLC, US  
[86] (2963384)  
[87] (2963384)  
[22] 2017-04-05  
[30] US (15/290,627) 2016-10-11

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[11] **2,964,367**  
[13] C

[51] **Int.Cl. C12N 15/13 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **ANTIBODY MOLECULES TO PD-L1 AND USES THEREOF**

[54] **MOLECULES D'ANTICORPS DE PD-L1 ET LEURS UTILISATIONS**

[72] FREEMAN, GORDON JAMES, US

[72] SHARPE, ARLENE HELEN, US

[72] FREY, GERHARD JOHANN, US

[72] CHANG, HWAI WEN, US

[72] MATARAZA, JENNIFER MARIE, US

[72] DRANOFF, GLENN, US

[73] NOVARTIS AG, CH

[73] DANA-FARBER CANCER INSTITUTE, INC., US

[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[85] 2017-04-11

[86] 2015-10-13 (PCT/US2015/055390)

[87] (WO2016/061142)

[30] US (62/063,852) 2014-10-14

[30] US (62/094,847) 2014-12-19

[30] US (62/198,545) 2015-07-29

[30] US (62/213,076) 2015-09-01

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[11] **2,964,757**  
[13] C

[51] **Int.Cl. A61K 8/46 (2006.01) A61K 8/41 (2006.01) A61Q 5/02 (2006.01) A61Q 19/10 (2006.01)**

[25] EN

[54] **MILD CLEANSING COMPOSITIONS COMPRISING ZWITTERIONIC ESTER AMMONIOALKANOATE SURFACTANTS**

[54] **COMPOSITIONS DE NETTOYAGE MOYEN COMPRENANT DES AGENTS DE SURFACE D'AMMONIOALKANOATE D'ESTER ZWITTERIONIQUES**

[72] FEVOLA, MICHAEL J., US

[72] FUETTERER, TOBIAS J., US

[72] YORK, STACEY E., US

[72] BOAZ, NEIL WARREN, US

[73] JOHNSON & JOHNSON CONSUMER INC., US

[85] 2017-04-13

[86] 2015-10-01 (PCT/US2015/053426)

[87] (WO2016/064549)

[30] US (14/518,476) 2014-10-20

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[11] **2,964,767**  
[13] C

[51] **Int.Cl. C08F 220/20 (2006.01) C08F 212/32 (2006.01) C08F 226/12 (2006.01)**

[25] EN

[54] **POLYMERS AND METHODS FOR OPHTHALMIC APPLICATIONS**

[54] **POLYMERES ET METHODES POUR APPLICATIONS OPHTALMIQUES**

[72] MENTAK, KHALID, US

[73] KEY MEDICAL TECHNOLOGIES, INC., US

[85] 2017-04-13

[86] 2015-10-16 (PCT/US2015/055940)

[87] (WO2016/061457)

[30] US (14/517,022) 2014-10-17

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[11] **2,966,376**  
[13] C

[51] **Int.Cl. C07D 401/02 (2006.01) A61K 31/437 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **PYRIMIDINE OR PYRIDINE COMPOUNDS, PREPARATION METHOD THEREFOR AND PHARMACEUTICAL USES THEREOF**

[54] **COMPOSES PYRIMIDINE OU PYRIDINE, LEUR PROCEDURE DE PREPARATION ET LEURS UTILISATIONS PHARMACEUTIQUES**

[72] JIANG, YUEHENG, CN

[73] INVENTISBIO CO., LTD., CN

[85] 2017-05-01

[86] 2015-11-05 (PCT/CN2015/093815)

[87] (WO2016/070816)

[30] CN (201410619334.7) 2014-11-05

[30] CN (201510152615.0) 2015-04-01

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[11] **2,967,894**  
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4155 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/4709 (2006.01) A61K 31/497 (2006.01) A61K 31/506 (2006.01) A61K 31/538 (2006.01) C07D 231/14 (2006.01) C07D 401/06 (2006.01) C07D 401/10 (2006.01) C07D 401/12 (2006.01) C07D 403/10 (2006.01) C07D 403/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **N-((HET)ARYLMETHYL)-HETEROARYL-CARBOXAMIDES COMPOUNDS AS PLASMA KALLIKREIN INHIBITORS**

[54] **COMPOSES N-((HET)ARYLMETHYL)-HETEROARYL-CARBOXAMIDES COMME INHIBITEURS DE LA KALLIKREINE PLASMATIQUE**

[72] DAVIE, REBECCA LOUISE, GB

[72] EDWARDS, HANNAH JOY, GB

[72] EVANS, DAVID MICHAEL, GB

[72] HODGSON, SIMON TEANBY, GB

[73] KALVISTA PHARMACEUTICALS LIMITED, GB

[85] 2017-05-15

[86] 2015-11-26 (PCT/GB2015/053615)

[87] (WO2016/083820)

[30] GB (1421083.5) 2014-11-27

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[11] **2,969,281**  
[13] C

[51] **Int.Cl. H01H 71/40 (2006.01) B60R 16/03 (2006.01) H02J 13/00 (2006.01)**

[25] EN

[54] **EXTERNAL DC OVERCURRENT ELECTRONIC TRIP UNIT FOR CIRCUIT BREAKER**

[54] **MODULE DE DECLENCHEUR ELECTRONIQUE DE SURCOURANT CC EXTERNE DESTINE A UN DISJONCTEUR**

[72] LAVERTU, CARL, CA

[72] BERGER, MAXIME, CA

[73] BOMBARDIER TRANSPORTATION GMBH, DE

[86] (2969281)

[87] (2969281)

[22] 2017-05-31

[30] US (62/344,444) 2016-06-02

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[11] **2,970,264**  
[13] C

[51] **Int.Cl. F24D 19/00 (2006.01) F24D 13/02 (2006.01)**  
[25] EN  
[54] **IMPROVED CONVECTOR**  
[54] **CONVECTEUR AMELIORE**  
[72] BERNIER, PIERRE-MARC, CA  
[72] POULIOT, SYLVAIN, CA  
[72] DEFFINS, NICOLAS, CA  
[72] SIROIS, YANNICK, CA  
[73] STELPRO DESIGN INC., CA  
[86] (2970264)  
[87] (2970264)  
[22] 2017-06-12  
[30] US (62/348,250) 2016-06-10

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[11] **2,971,768**  
[13] C

[51] **Int.Cl. H01R 13/502 (2006.01) A47B 77/08 (2006.01) H01R 13/52 (2006.01) H01R 13/73 (2006.01)**  
[25] EN  
[54] **WATER RESISTANT POP-UP OUTLET**  
[54] **SORTIE A SOULEVEMENT RESISTANTE A L'EAU**  
[72] MORTUN, SORIN I., US  
[73] HUBBELL INCORPORATED, US  
[86] (2971768)  
[87] (2971768)  
[22] 2017-06-22  
[30] US (62/353,357) 2016-06-22

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[11] **2,971,914**  
[13] C

[51] **Int.Cl. B07B 1/14 (2006.01)**  
[25] EN  
[54] **DISC FOR A SEPARATING CONVEYOR SCREEN AND SEPARATING CONVEYOR SCREEN INCLUDING SUCH A DISC**  
[54] **DISQUE DESTINE A UN ECRAN DE COURROIE DE TRANSPORT DE SEPARATION ET ECRAN DE COURROIE DE TRANSPORT DE SEPARATION COMPORTANT UN TEL DISQUE**  
[72] KLAASSEN, GERRIT JOHAN, NL  
[73] BOLLEGRAAF PATENTS AND BRANDS B.V., NL  
[86] (2971914)  
[87] (2971914)  
[22] 2017-06-27  
[30] EP (16176374.3) 2016-06-27

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[11] **2,972,199**  
[13] C

[51] **Int.Cl. F21K 9/23 (2016.01) F21V 29/503 (2015.01) F21V 29/70 (2015.01) F21K 9/00 (2016.01) F21V 17/14 (2006.01) F21V 19/00 (2006.01) F21V 19/04 (2006.01)**  
[25] EN  
[54] **MODULAR LED LAMP STRUCTURE**  
[54] **STRUCTURE DE LAMPE A DEL MODULAIRE**  
[72] NANNI, MARIO, IT  
[73] VIABIZZUNO S.R.L., IT  
[85] 2017-06-23  
[86] 2016-01-21 (PCT/IB2016/050290)  
[87] (WO2016/116883)  
[30] IT (BO2015A000022) 2015-01-23

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[11] **2,973,526**  
[13] C

[51] **Int.Cl. B23K 35/30 (2006.01) B23K 1/19 (2006.01) B23K 35/02 (2006.01)**  
[25] EN  
[54] **NICKEL BASED ALLOY WITH HIGH MELTING RANGE SUITABLE FOR BRAZING SUPER AUSTENITIC STEEL**  
[54] **ALLIAGE A BASE DE NICKEL AVEC PLAGES DE FUSION ELEVEE APPROPRIEE POUR LE BRASAGE D'ACIER SUPER AUSTENITIQUE**  
[72] PERSSON, ULRIKA, SE  
[72] MARS, OWE, SE  
[73] HOGANAS AB (PUBL), SE  
[85] 2017-07-11  
[86] 2016-02-11 (PCT/EP2016/052906)  
[87] (WO2016/131702)  
[30] EP (15155359.1) 2015-02-17

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[11] **2,973,765**  
[13] C

[51] **Int.Cl. A61C 5/60 (2017.01) A61C 5/62 (2017.01) A61C 5/66 (2017.01)**  
[25] EN  
[54] **DENTAL MATERIAL DELIVERY SYSTEM**  
[54] **SYSTEME DE DISTRIBUTION DE MATERIAU DENTAIRE**  
[72] PIERSON, PAUL R., US  
[72] WEBER, CHRISTOPH, DE  
[72] COVELESKI, PETER MAX, US  
[72] GUARAGNO, KENNETH R., US  
[72] KARAZIVAN, NAIM, CA  
[72] SIRKIS, JAMES, US  
[73] DENTSPLY SIRONA INC., US  
[85] 2017-07-12  
[86] 2016-03-07 (PCT/US2016/021177)  
[87] (WO2016/144868)  
[30] US (62/129,082) 2015-03-06

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[11] **2,975,528**  
[13] C

[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 40/04 (2012.01) G06F 21/64 (2013.01)**  
[25] EN  
[54] **CRYPTO INTEGRATION PLATFORM**  
[54] **PLATE-FORME D'INTEGRATION DE CHIFFREMENT**  
[72] WILKINS, ALEC, US  
[72] FISH, ERIC NATHANIEL, US  
[72] LARSON, TRENT NORMAN, US  
[72] BYRNE, PATRICK M., US  
[73] TZERO IP, LLC, US  
[85] 2017-07-31  
[86] 2016-02-05 (PCT/US2016/016845)  
[87] (WO2016/190922)  
[30] US (62/113,931) 2015-02-09

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[11] **2,975,848**  
[13] C

[51] **Int.Cl. C08L 3/02 (2006.01) A63H 33/00 (2006.01) B44C 3/04 (2006.01) C08J 3/20 (2006.01) C08K 5/053 (2006.01) C08L 3/12 (2006.01) A21D 2/00 (2006.01) A21D 2/02 (2006.01) A21D 2/08 (2006.01) A21D 2/14 (2006.01)**

[25] EN  
[54] **MODELLING COMPOUND**  
[54] **COMPOSE DE MODELAGE**  
[72] THURESSON, STAFFAN, SE  
[72] MODELL, JONAS, SE  
[72] THURESSON, KRISTER, SE  
[73] DELTA OF SWEDEN AB, SE  
[85] 2017-08-03  
[86] 2016-02-15 (PCT/EP2016/053196)  
[87] (WO2016/128582)  
[30] GB (1502459.9) 2015-02-13

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[11] **2,978,787**  
[13] C

[51] **Int.Cl. G02B 21/10 (2006.01) C12M 3/10 (2006.01) G01N 21/01 (2006.01) G02B 21/12 (2006.01)**

[25] EN  
[54] **METHOD AND APPARATUS FOR MICROSCOPY**  
[54] **PROCEDE ET APPAREIL DE MICROSCOPIE**  
[72] VOM, EDUARDO, AU  
[72] SPENCE, SIMON JONATHON, AU  
[72] LANYON, SAMUEL ROSS GARLAND, AU  
[72] STEWART-STEELE, BENEDICT JOHN, AU  
[73] GENE IP HOLDINGS PTY LIMITED, AU  
[85] 2017-09-06  
[86] 2016-03-15 (PCT/AU2016/000089)  
[87] (WO2016/145476)  
[30] AU (2015900909) 2015-03-13

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[11] **2,979,644**  
[13] C

[51] **Int.Cl. C12P 19/14 (2006.01) B01D 61/14 (2006.01) B01D 65/02 (2006.01) B01D 65/06 (2006.01) C13K 1/02 (2006.01)**

[25] EN  
[54] **METHOD FOR PRODUCING SUGAR SOLUTION**  
[54] **PROCEDE DE PRODUCTION D'UNE SOLUTION DE SUCRE**  
[72] ASAH, YUKA, JP  
[72] MINAMINO, ATSUSHI, JP  
[72] KURIHARA, HIROYUKI, JP  
[72] HIGASA, MASASHI, JP  
[72] YAMADA, KATSUSHIGE, JP  
[73] TORAY INDUSTRIES, INC., JP  
[85] 2017-09-13  
[86] 2016-03-23 (PCT/JP2016/059079)  
[87] (WO2016/152883)  
[30] JP (2015-061103) 2015-03-24

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[11] **2,980,504**  
[13] C

[51] **Int.Cl. A61F 2/02 (2006.01) A61F 2/18 (2006.01) C12N 5/00 (2006.01)**

[25] EN  
[54] **ARTIFICIAL TYMPANIC MEMBRANE DEVICES AND USES**  
[54] **DISPOSITIFS DE MEMBRANE TYMPANIQUE ARTIFICIELLE ET UTILISATIONS**  
[72] REMENSCHNEIDER, AARON K., US  
[72] KOZIN, ELLIOTT, US  
[72] BLACK, NICOLE, US  
[72] MCKENNA, MICHAEL J., US  
[72] LEE, DANIEL J., US  
[72] LEWIS, JENNIFER, US  
[72] ROSOWSKI, JOHN, US  
[72] KOLESKY, DAVID, US  
[72] SKYLAR-SCOTT, MARK A., US  
[72] VALENTINE, ALEXANDER D., US  
[73] MASSACHUSETTS EYE AND EAR INFIRMARY, US  
[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US  
[85] 2017-09-20  
[86] 2016-03-21 (PCT/US2016/023482)  
[87] (WO2016/154148)  
[30] US (62/136,097) 2015-03-20  
[30] US (62/245,827) 2015-10-23  
[30] US (62/247,268) 2015-10-28

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[11] **2,981,293**  
[13] C

[51] **Int.Cl. F16D 3/70 (2006.01) E21B 7/08 (2006.01) E21B 17/04 (2006.01) F16D 3/12 (2006.01)**

[25] EN  
[54] **BHA TRANSMISSION WITH LAMINATED RUBBER BEARINGS**  
[54] **TRANSMISSION DE BHA A PALIERS EN CAOUTCHOUC STRATIFIES**  
[72] LU, JING, US  
[72] CARIVEAU, PETER THOMAS, US  
[73] ABACO DRILLING TECHNOLOGIES LLC, US  
[86] (2981293)  
[87] (2981293)  
[22] 2017-10-02  
[30] US (62/402,686) 2016-09-30  
[30] US (15/721,959) 2017-10-01

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[11] **2,983,845**  
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) C12Q 1/6888 (2018.01) A61K 35/39 (2015.01) A61P 3/10 (2006.01) C12N 5/02 (2006.01)**

[25] EN  
[54] **GENERATION OF GLUCOSE-RESPONSIVE BETA CELLS**  
[54] **GENERATION DE CELLULES BETA REAGISSANT AU GLUCOSE**  
[72] AMERI, JACQUELINE, SE  
[72] SEMB, HENRIK, SE  
[73] UNIVERSITY OF COPENHAGEN, DK  
[86] (2983845)  
[87] (2983845)  
[22] 2017-10-26

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[11] **2,987,381**  
[13] C

[51] **Int.Cl. C09K 15/04 (2006.01) C08J 3/20 (2006.01) C08K 3/30 (2006.01) C08K 5/1535 (2006.01) C08L 101/12 (2006.01) C09K 15/02 (2006.01)**

[25] EN  
[54] **OXYGEN-SCAVENGING POLYMERS**  
[54] **POLYMERES PIEGEANT L'OXYGENE**  
[72] PEIRSMAN, DANIEL, BE  
[72] VALLES, VANESSA, BE  
[73] ANHEUSER-BUSCH INBEV S.A., BE  
[85] 2017-11-27  
[86] 2016-05-26 (PCT/IB2016/053080)  
[87] (WO2016/189483)  
[30] US (62/167,105) 2015-05-27

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[11] **2,988,803**  
[13] C

[51] **Int.Cl. H02K 41/02 (2006.01) H01L 21/68 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR CONTROLLABLY MOVING ONE OR MORE MOVEABLE STAGES IN A DISPLACEMENT DEVICE**  
[54] **PROCEDES ET SYSTEMES DE MOUVEMENT COMMANDABLE D'UN OU PLUSIEURS ETAGES MOBILES DANS UN DISPOSITIF A DEPLACEMENT**  
[72] LU, XIAODONG, CA  
[73] THE UNIVERSITY OF BRITISH COLUMBIA, CA  
[85] 2017-12-08  
[86] 2016-07-06 (PCT/CA2016/050790)  
[87] (WO2017/004716)  
[30] US (62/189,131) 2015-07-06

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[11] **2,989,040**  
[13] C

[51] **Int.Cl. G01B 9/02055 (2022.01) G01B 9/02091 (2022.01) G01H 9/00 (2006.01) G01K 11/32 (2021.01) G01J 3/45 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PHASE-READOUT AND ACTIVE STABILIZATION OF OPTICAL INTERFEROMETERS**  
[54] **SYSTEME ET PROCEDE POUR LECTURE DE PHASE ET STABILISATION ACTIVE D'INTERFEROMETRES OPTIQUES**  
[72] ROZTOCKI, PIOTR, CA  
[72] REIMER, CHRISTIAN, CA  
[72] HELSTEN, ROBIN, CA  
[72] JESTIN, YOANN, CA  
[72] MORANDOTTI, ROBERTO, CA  
[72] KUES, MICHAEL, CA  
[73] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA  
[85] 2017-12-11  
[86] 2016-09-08 (PCT/CA2016/051060)  
[87] (WO2017/041174)  
[30] US (62/215,437) 2015-09-08

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[11] **2,990,011**  
[13] C

[51] **Int.Cl. G06Q 10/04 (2023.01) G06Q 10/087 (2023.01) G06Q 30/0202 (2023.01)**  
[25] EN  
[54] **COMPUTER-BASED DATA COLLECTION, MANAGEMENT, AND FORECASTING**  
[54] **COLLECTE, GESTION ET PREVISION DE DONNEES BASEES SUR ORDINATEUR**  
[72] GJERDE, ANDERS R., US  
[72] PALARCA, WILLIAM, US  
[72] MYERS, RICK, US  
[72] TAMANO, CALVIN, US  
[72] FANUCCHI, CHARISSA, US  
[72] ELAHI, PEGGAH, US  
[72] QASIMI, ZOHRA, US  
[72] LAGUNA, GEMMA ASIN, US  
[72] HANCOCK, VALERIE R., US  
[73] BLACKHAWK NETWORK, INC., US  
[85] 2017-12-18  
[86] 2016-06-20 (PCT/US2016/038346)  
[87] (WO2016/209764)  
[30] US (62/182,601) 2015-06-21

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[11] **2,991,445**  
[13] C

[51] **Int.Cl. G01N 1/40 (2006.01) C12Q 1/10 (2006.01) G01N 33/569 (2006.01)**  
[25] EN  
[54] **RAPID CONCENTRATION, RECOVERY AND DETECTION OF PATHOGENS IN FOOD SAMPLES**  
[54] **CONCENTRATION, RECUPERATION ET DETECTION RAPIDES D'AGENTS PATHOGENES DANS DES ECHANTILLONS ALIMENTAIRES**  
[72] LADISCH, MICHAEL RALPH, US  
[72] XIMINES, EDUARDO DE AQUINO, US  
[72] KU, SEOCKMO, US  
[72] FOSTER, KIRK SOLON, US  
[72] KREKE, THOMAS RICHARD, US  
[72] LIU, XINGYA (LINDA), US  
[72] JONES, JAMES THOMAS, US  
[72] DEERING, AMANDA, US  
[72] HARDENSTEIN, JAYCEY, US  
[72] TUNGARE, ALISHA, US  
[73] PURDUE RESEARCH FOUNDATION, US  
[85] 2018-01-04  
[86] 2016-07-22 (PCT/US2016/043596)  
[87] (WO2017/015574)  
[30] US (62/196,216) 2015-07-23

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[11] **2,992,787**  
[13] C

[51] **Int.Cl. H02K 29/08 (2006.01) H02K 11/215 (2016.01) H02K 11/33 (2016.01) H02K 21/22 (2006.01)**  
[25] EN  
[54] **ENCODERLESS MOTOR WITH IMPROVED GRANULARITY AND METHODS OF USE**  
[54] **MOTEUR SANS CODEUR PRESENTANT UNE MEILLEURE GRANULARITE ET PROCEDES D'UTILISATION**  
[72] PHAN, TIEN, US  
[72] DORITY, DOUG, US  
[73] CEPHEID, US  
[85] 2018-01-16  
[86] 2016-07-22 (PCT/US2016/043757)  
[87] (WO2017/015638)  
[30] US (62/195,449) 2015-07-22

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[11] **2,995,855**  
[13] C

[51] **Int.Cl. A61B 17/02 (2006.01) A61F 2/24 (2006.01)**  
[25] EN  
[54] **SPACER FOR SECURING A TRANSCATHETER VALVE TO A BIOPROSTHETIC CARDIAC STRUCTURE**  
[54] **ESPACEUR POUR FIXER UNE VALVE TRANSCATHETER A UNE STRUCTURE CARDIAQUE BIOPROTHETIQUE**  
[72] CAMPBELL, LOUIS A., US  
[73] EDWARDS LIFESCIENCES CORPORATION, US  
[85] 2018-02-15  
[86] 2016-09-02 (PCT/US2016/050254)  
[87] (WO2017/041029)  
[30] US (62/213,559) 2015-09-02

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[11] **2,995,937**  
[13] C

[51] **Int.Cl. G02B 6/44 (2006.01) G02B 6/02 (2006.01) G02B 6/036 (2006.01) G02B 6/04 (2006.01)**  
[25] EN  
[54] **OPTICAL FIBER BUNDLE**  
[54] **FAISCEAU DE FIBRES OPTIQUES**  
[72] HUDSON, HAROLD EDWARD, II, US  
[72] HURLEY, WILLIAM CARL, US  
[73] CORNING OPTICAL COMMUNICATIONS LLC, US  
[85] 2018-02-16  
[86] 2016-08-03 (PCT/US2016/045315)  
[87] (WO2017/030791)  
[30] US (62/206,445) 2015-08-18

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[11] **2,996,979**  
[13] C

[51] **Int.Cl. C07D 209/12 (2006.01) A61K 31/404 (2006.01) A61P 31/12 (2006.01)**  
[25] EN  
[54] **MONO- OR DI-SUBSTITUTED INDOLE DERIVATIVES AS DENGUE VIRAL REPLICATION INHIBITORS**  
[54] **DERIVES D'INDOLE MONOSUBSTITUES OU DISUBSTITUES UTILISES EN TANT QU'INHIBITEURS DE LA REPLICATION DU VIRUS DE LA DENGUE**  
[72] KESTELEYN, BART RUDOLF ROMANIE, BE  
[72] RABOISSON, PIERRE JEAN-MARIE BERNARD, BE  
[72] BONFANTI, JEAN-FRANCOIS, FR  
[72] JONCKERS, TIM HUGO MARIA, BE  
[72] BARDIOT, DOROTHEE ALICE MARIE-EVE, BE  
[72] MARCHAND, ARNAUD DIDIER M, BE  
[73] JANSSEN PHARMACEUTICALS, INC., US  
[73] KATHOLIEKE UNIVERSITEIT LEUVEN, BE  
[85] 2018-02-27  
[86] 2016-09-15 (PCT/EP2016/071845)  
[87] (WO2017/046255)  
[30] EP (15185523.6) 2015-09-16  
[30] EP (16163472.0) 2016-04-01

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[11] **2,997,255**  
[13] C

[51] **Int.Cl. H04N 23/951 (2023.01) F21V 33/00 (2006.01) G03B 37/00 (2021.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR IMAGING IN A LUMINAIRE**  
[54] **PROCEDE ET SYSTEME D'IMAGERIE DANS UN LUMINAIRE**  
[72] NGUYEN, VINH-LOC, CA  
[72] GEGUINE, GLEB, CA  
[72] TIAN, TAI-PENG, US  
[73] UBICQUIA IQ LLC, US  
[85] 2018-03-01  
[86] 2016-07-29 (PCT/US2016/044673)  
[87] (WO2017/023738)  
[30] US (14/816,351) 2015-08-03

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[11] **2,997,841**  
[13] C

[51] **Int.Cl. E06B 3/67 (2006.01) E06B 3/677 (2006.01)**  
[25] EN  
[54] **VARIABLE THERMAL INSULATION ASSEMBLY**  
[54] **ENSEMBLE D'ISOLATION THERMIQUE VARIABLE**  
[72] WHITEHEAD, LORNE, CA  
[72] MOSSMAN, MICHELE, CA  
[72] EELTINK, DEBBIE, CA  
[72] OGILVIE, LAURA MEGAN, CA  
[72] SCOTT, JON, CA  
[72] MUSTERER, NAMAMRTA, CA  
[72] BOWLEY, WESLEY, CA  
[73] THE UNIVERSITY OF BRITISH COLUMBIA, CA  
[85] 2018-03-07  
[86] 2016-09-09 (PCT/CA2016/051072)  
[87] (WO2017/041184)  
[30] US (62/216,614) 2015-09-10  
[30] US (62/218,949) 2015-09-15

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[11] **2,998,096**  
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) A61K 35/22 (2015.01) C12N 5/10 (2006.01) C12Q 1/04 (2006.01) C12N 15/09 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING RENAL PROGENITOR CELLS**  
[54] **PROCEDE DE PRODUCTION DE CELLULES RENALES PROGENITRICES**  
[72] KAWAMOTO, TATSUYA, JP  
[72] YAMAGISHI, YUKIKO, JP  
[72] OSAFUNE, KENJI, JP  
[73] ASTELLAS PHARMA INC., JP  
[73] KYOTO UNIVERSITY, JP  
[85] 2018-03-08  
[86] 2016-09-09 (PCT/JP2016/077353)  
[87] (WO2017/043666)  
[30] JP (2015-179104) 2015-09-11

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[11] **3,000,754**  
[13] C

[51] **Int.Cl. B65D 81/38 (2006.01)**  
[25] EN  
[54] **A TEMPERATURE CONTROLLED CONTAINER**  
[54] **RECIPIENT A REGULATION THERMIQUE**  
[72] GOLDSTEIN, VLADIMIR, CA  
[73] SUNWELL ENGINEERING COMPANY LIMITED, CA  
[85] 2018-04-03  
[86] 2015-10-02 (PCT/CA2015/050996)  
[87] (WO2016/049775)  
[30] US (62/059,360) 2014-10-03

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[11] **3,001,589**  
[13] C

[51] **Int.Cl. E04F 11/18 (2006.01) F16B 9/00 (2006.01)**  
[25] EN  
[54] **BALUSTER CONNECTOR APPARATUS AND METHOD**  
[54] **APPAREILLAGE DE RACCORDEMENT DE BALUSTRE ET METHODE**  
[72] BERGMAN, RICHARD, CA  
[73] BERGMAN, RICHARD, CA  
[86] (3001589)  
[87] (3001589)  
[22] 2018-04-16  
[30] US (62485626) 2017-04-14

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[11] **3,002,183**  
[13] C

[51] **Int.Cl. F16L 15/04 (2006.01)**  
[25] EN  
[54] **PIPE COUPLING**  
[54] **RACCORD DE TUYAUTERIE**  
[72] PUCKETT, GEOFF, AU  
[72] PRIDHAM, MALCOLM, AU  
[73] PHILMAC PTY LTD., AU  
[86] (3002183)  
[87] (3002183)  
[22] 2018-04-19

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[11] **3,002,529**  
[13] C

[51] **Int.Cl. C04B 28/02 (2006.01) C04B 12/04 (2006.01) C04B 18/06 (2006.01) C04B 18/08 (2006.01) C04B 24/04 (2006.01)**

[25] EN

[54] **FLY ASH-CONTAINING CONSTRUCTION MATERIAL WITH IMPROVED STRENGTH AND WATER RESISTANCE AND METHODS OF FORMING THE SAME**

[54] **MATERIAU DE CONSTRUCTION CONTENANT DES CENDRES VOLANTES PRESENTANT UNE SOLIDITE ET UNE RESISTANCE A L'EAU AMELIOREES ET PROCEDES POUR LE FORMER**

[72] ZHANG, JINHONG, US  
[72] FENG, QINGMING, US  
[73] ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA, US

[85] 2018-04-18  
[86] 2016-10-14 (PCT/US2016/057159)  
[87] (WO2017/070021)  
[30] US (62/243,802) 2015-10-20

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[11] **3,003,210**  
[13] C

[51] **Int.Cl. F16L 11/08 (2006.01) C08L 23/14 (2006.01)**

[25] EN

[54] **AN UNBONDED FLEXIBLE PIPE**

[54] **TUYAU SOUPLE NON COLLE**

[72] PROCIDA, INGER-MARGRETE, DK  
[72] HANSEN, ALLAN BOYE, NO  
[73] NATIONAL OILWELL VARCO DENMARK I/S, DK

[85] 2018-04-25  
[86] 2016-11-01 (PCT/DK2016/050350)  
[87] (WO2017/076412)  
[30] DK (PA 2015 70711) 2015-11-03

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[11] **3,003,355**  
[13] C

[51] **Int.Cl. G05B 19/042 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTOMATICALLY CREATING AND OPERATING A FUNCTIONAL ASSOCIATION OF LIGHTS**

[54] **SYSTEME ET METHODE DE NETTOYAGE AUTOMATIQUE ET DE FONCTIONNEMENT D'UNE ASSOCIATION FONCTIONNELLE DE LUMIERES**

[72] DAHLEH, ROUMANOS, CA  
[73] JDRF ELECTROMAG ENGINEERING INC., CA

[86] (3003355)  
[87] (3003355)  
[22] 2018-04-30  
[30] US (15/584,678) 2017-05-02

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[11] **3,004,620**  
[13] C

[51] **Int.Cl. A61G 12/00 (2006.01) A47B 88/47 (2017.01) A61J 7/00 (2006.01)**

[25] EN

[54] **A MEDICAL TECHNOLOGY STATION AND METHOD OF USE**

[54] **STATION DE TECHNOLOGIE MEDICALE ET PROCEDE D'UTILISATION**

[72] VOLEK, ROBERT, US  
[72] FINNERTY, JACK, GB  
[72] CHEN, JIN, US  
[72] SOSNIAK, KRZYSZTOF, US  
[72] IPINCE, MARCEL, US  
[72] PFEIFFER, CHARLES, US  
[72] PIOTROWSKI, ADAM, US  
[72] TAN, HARRY, CN  
[73] CAPSA SOLUTIONS, LLC, US

[85] 2018-05-07  
[86] 2016-11-14 (PCT/US2016/061911)  
[87] (WO2017/083863)  
[30] US (62/255,336) 2015-11-13

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[11] **3,005,607**  
[13] C

[51] **Int.Cl. B32B 7/05 (2019.01) A47L 13/16 (2006.01) B32B 5/26 (2006.01) B32B 27/12 (2006.01) D04H 1/54 (2012.01) D04H 3/08 (2006.01)**

[25] EN

[54] **OIL ABSORBENT WIPING PRODUCT**

[54] **PRODUIT D'ESSUYAGE ABSORBANT L'HUILE**

[72] CHANG, YU-WEN, US  
[72] MACDONALD, JOHN GAVIN, US  
[72] KAUL, VIKRAM S., US  
[72] DOHERTY, JENNIFER L., US  
[72] MORGAN, JAMES R., US  
[72] YANG, KAIYUAN, US  
[72] VAUGHAN, MICHAEL R., US  
[73] KIMBERLY-CLARK WORLDWIDE, INC., US

[85] 2018-05-16  
[86] 2016-07-29 (PCT/US2016/044746)  
[87] (WO2017/095483)  
[30] US (62/261,652) 2015-12-01  
[30] US (62/315,714) 2016-03-31

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[11] **3,006,001**  
[13] C

[51] **Int.Cl. G06F 40/189 (2020.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR RECOGNIZING SLIDE**

[54] **PROCEDE ET APPAREIL POUR RECONNAITRE UNE DIAPOSITIVE**

[72] HU, JUAN, CN  
[72] WANG, QIAN, CN  
[72] ZHOU, XIAN, CN  
[72] ZHUANG, YONG, CN  
[73] BEIJING KINGSOFT OFFICE SOFTWARE, INC., CN  
[73] ZHUHAI KINGSOFT OFFICE SOFTWARE CO., LTD., CN  
[73] GUANGZHOU KINGSOFT MOBILE TECHNOLOGY CO., LTD, CN

[85] 2018-05-23  
[86] 2016-11-15 (PCT/CN2016/105885)  
[87] (WO2017/114015)  
[30] CN (201511033937.X) 2015-12-31

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[11] **3,006,746**

[13] C

- [51] **Int.Cl. A61K 9/16 (2006.01) A61K 9/20 (2006.01) A61K 31/506 (2006.01) A61P 9/00 (2006.01)**
- [25] EN
- [54] **SOLID DISPERSIONS COMPRISING A SGC STIMULATOR**
- [54] **DISPERSIONS SOLIDES COMPRENANT UN STIMULATEUR DE GUANYLATE CYCLASE SOLUBLE (SGC)**
- [72] DUNBAR, CRAIG ANTHONY, US
- [72] SETHURAMAN, VASU, US
- [72] HASHASH, AHMAD, US
- [73] CYCLERION THERAPEUTICS, INC., US
- [85] 2018-05-29
- [86] 2016-11-22 (PCT/US2016/063312)
- [87] (WO2017/095697)
- [30] US (62/260,910) 2015-11-30
- [30] US (62/359,440) 2016-07-07

[11] **3,007,011**

[13] C

- [51] **Int.Cl. H01L 33/50 (2010.01)**
- [25] EN
- [54] **LED APPARATUS EMPLOYING TUNABLE COLOR FILTERING USING MULTIPLE NEODYMIUM AND FLUORINE COMPOUNDS**
- [54] **APPAREIL A DEL EMPLOYANT UN FILTRAGE DE COULEUR ACCORDABLE UTILISANT DE MULTIPLES COMPOSES DE FLUOR ET DE NEODYME**
- [72] BENNER, KEVIN JEFFREY, US
- [72] ALLEN, GARY ROBERT, US
- [72] CAI, DENGKE, US
- [72] CLYNNE, THOMAS, US
- [72] HE, JIANMIN, US
- [73] SAVANT TECHNOLOGIES LLC, US
- [85] 2018-05-30
- [86] 2016-12-06 (PCT/US2016/065149)
- [87] (WO2017/100190)
- [30] US (14/966,329) 2015-12-11

[11] **3,007,481**

[13] C

- [51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01)**
- [25] EN
- [54] **AQUEOUS PHARMACEUTICAL FORMULATION COMPRISING ANTI-PD-L1 ANTIBODY AVELUMAB**
- [54] **FORMULATION PHARMACEUTIQUE AQUEUSE COMPRENANT UN ANTICORPS ANTI-PD-L1 L'AVELUMAB**
- [72] RINALDI, GIANLUCA, IT
- [72] DEL RIO, ALESSANDRA, IT
- [72] FRATARCANGELI, SILVIA, IT
- [72] VOSS, SENTA, DE
- [72] WEIGANDT, MARKUS, DE
- [73] MERCK PATENT GMBH, DE
- [73] PFIZER INC., US
- [85] 2018-06-05
- [86] 2016-12-05 (PCT/EP2016/002040)
- [87] (WO2017/097407)
- [30] EP (15198233.7) 2015-12-07

[11] **3,007,605**

[13] C

- [51] **Int.Cl. A61K 6/30 (2020.01)**
- [25] EN
- [54] **(METH)ACRYLAMIDE-CONTAINING DENTAL ADHESIVE**
- [54] **RESINE DE SCELLEMENT CONTENANT DU METHACRYLAMIDE**
- [72] NOJIRI, YAMATO, JP
- [72] TAKEI, MITSURU, JP
- [73] KURARAY NORITAKE DENTAL INC., JP
- [85] 2018-06-06
- [86] 2016-12-06 (PCT/JP2016/005071)
- [87] (WO2017/098724)
- [30] JP (2015-238788) 2015-12-07

[11] **3,008,362**

[13] C

- [51] **Int.Cl. A61K 6/70 (2020.01) A61K 6/30 (2020.01)**
- [25] EN
- [54] **DENTAL ADHESIVE MATERIAL KIT COMPRISING AN AQUEOUS ADHESIVE COMPOSITION AND A CURABLE COMPOSITION**
- [54] **TROUSSE DE MATERIAU ADHESIF DENTAIRE COMPRENANT UNE COMPOSITION ADHESIVE AQUEUSE ET UNE COMPOSITION DURCISSABLE**
- [72] SUZUKI, KENJI, JP
- [73] KURARAY NORITAKE DENTAL INC., JP
- [85] 2018-06-13
- [86] 2016-12-12 (PCT/JP2016/005108)
- [87] (WO2017/104128)
- [30] JP (2015-247828) 2015-12-18

[11] **3,008,813**

[13] C

- [51] **Int.Cl. B65D 43/02 (2006.01) F42B 39/26 (2006.01)**
- [25] EN
- [54] **SEALABLE CONTAINER**
- [54] **RECIPIENT SCELLABLE**
- [72] BLAGOJEVIC, STEVAN, US
- [73] BLAGOJEVIC, STEVAN, US
- [85] 2018-06-15
- [86] 2015-12-16 (PCT/US2015/066187)
- [87] (WO2016/100565)
- [30] US (62/092,742) 2014-12-16
- [30] US (62/103,981) 2015-01-15

[11] **3,009,298**

[13] C

- [51] **Int.Cl. H04W 84/12 (2009.01) H04L 67/02 (2022.01) H04L 67/04 (2022.01) H04L 67/56 (2022.01) H04W 48/20 (2009.01) H04L 41/0806 (2022.01)**
- [25] EN
- [54] **PROVISIONING A DEVICE IN A NETWORK**
- [54] **APPROVISIONNEMENT D'UN DISPOSITIF DANS UN RESEAU**
- [72] MCCANN, STEPHEN, GB
- [72] MONTEMURRO, MICHAEL PETER, CA
- [72] LEPP, JAMES RANDOLPH WINTER, CA
- [73] BLACKBERRY LIMITED, CA
- [85] 2018-06-20
- [86] 2017-02-16 (PCT/EP2017/053566)
- [87] (WO2017/148710)
- [30] US (15/058,545) 2016-03-02

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[11] **3,009,668**  
[13] C

[51] **Int.Cl. F23D 14/02 (2006.01) F23D 14/22 (2006.01) F23D 14/28 (2006.01) F23D 14/32 (2006.01) F23D 14/46 (2006.01) F23D 14/48 (2006.01) F23D 14/58 (2006.01) F23D 14/70 (2006.01)**

[25] EN

[54] **LOW NOX BURNER APPARATUS AND METHOD**

[54] **APPAREIL BRULEUR A FAIBLE PRODUCTION DE NOX ET PROCEDE**

[72] ZINK, DARTON J., US  
[72] ISAACS, REX K., US  
[72] BARNES, JONATHON, US  
[72] IMEL, PARKER, US  
[72] MARTY, SETH, US  
[72] LITTLE, CODY, US  
[72] MCDONALD, JOHN, US  
[73] ZEECO, INC., US  
[85] 2018-06-22  
[86] 2016-12-30 (PCT/US2016/069466)  
[87] (WO2017/120114)  
[30] US (14/991,258) 2016-01-08

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[11] **3,010,564**  
[13] C

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 9/00 (2006.01)**

[25] EN

[54] **AN ANTIBACTERIAL COMPOSITION AND A METHOD OF TREATING STAPHYLOCOCCAL INFECTIONS WITH THE ANTIBACTERIAL COMPOSITION**

[54] **COMPOSITION ANTIBACTERIENNE ET METHODE DE TRAITEMENT D'INFECTIONS A STAPHYLOCOQUES A L'AIDE DE LA COMPOSITION ANTIBACTERIENNE**

[72] YOON, SEONG JUN, KR  
[72] JUN, SOO YOUN, KR  
[72] JUNG, GI MO, KR  
[72] KANG, SANG HYEON, KR  
[73] INTRON BIOTECHNOLOGY, INC., KR  
[85] 2018-07-04  
[86] 2017-01-09 (PCT/IB2017/050087)  
[87] (WO2017/122111)  
[30] US (62/277,506) 2016-01-12

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[11] **3,010,994**  
[13] C

[51] **Int.Cl. C08K 5/134 (2006.01) C08K 5/1545 (2006.01)**

[25] EN

[54] **ADDITIVE MIXTURE FOR STABILIZATION OF POLYOL AND POLYURETHANE**

[54] **MELANGE D'ADDITIFS DESTINE A LA STABILISATION DE POLYOL ET DE POLYURETHANE**

[72] WEGMANN, ALEX, CH  
[72] TARTARINI, CINZIA, IT  
[73] BASF SE, DE  
[85] 2018-07-09  
[86] 2017-01-11 (PCT/EP2017/050472)  
[87] (WO2017/125291)  
[30] EP (16152274.3) 2016-01-21  
[30] EP (16194214.9) 2016-10-17

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[11] **3,011,162**  
[13] C

[51] **Int.Cl. A41D 13/12 (2006.01)**

[25] EN

[54] **FOLDED SURGICAL GOWN AND METHOD OF FOLDING SAME**

[54] **BLOUSE CHIRURGICALE PLIEE ET SON PROCEDE DE PLIAGE**

[72] WANG, SHENG HUA, CN  
[72] LU, TI, CN  
[73] ALLEGIANCE CORPORATION, US  
[85] 2018-07-10  
[86] 2016-01-19 (PCT/CN2016/000039)  
[87] (WO2017/124205)

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[11] **3,011,938**  
[13] C

[51] **Int.Cl. B32B 5/24 (2006.01) B32B 15/14 (2006.01) E04B 1/74 (2006.01) F02C 7/24 (2006.01)**

[25] EN

[54] **MULTILAYERED PANEL FOR MACHINERY ENCLOSURE**

[54] **PANNEAU MULTICOUCHE POUR UNE ENCEINTE DE MACHINES**

[72] MERLO, ROBERTO, IT  
[72] TOZZI, PIERLUIGI, IT  
[72] BARDAZZI, ROBERTO, IT  
[72] CHECCACCI, EMANUELE, IT  
[72] BISIO, VALENTINA, IT  
[73] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT  
[85] 2018-07-19  
[86] 2017-01-26 (PCT/EP2017/051678)  
[87] (WO2017/129696)  
[30] IT (10201600009313) 2016-01-29

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[11] **3,012,078**  
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4355 (2006.01) A61K 31/4365 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61P 35/00 (2006.01) C07D 471/14 (2006.01) C07D 491/048 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **SELECTIVE ESTROGEN RECEPTOR DEGRADERS AND USES THEREOF**

[54] **AGENTS DE DEGRADATION SELECTIFS DES RECEPTEURS DES ESTROGENES ET LEURS UTILISATIONS**

[72] DAI, XING, US  
[72] WANG, YAOLIN, US  
[73] INVENTISBIO LLC, US  
[85] 2018-07-19  
[86] 2017-02-03 (PCT/US2017/016452)  
[87] (WO2017/136688)  
[30] US (62/291,921) 2016-02-05

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[11] **3,012,354**  
[13] C

[51] **Int.Cl. C08G 59/50 (2006.01) C08G 59/56 (2006.01) C08J 5/04 (2006.01)**

[25] EN

[54] **BLEND FOR CURING EPOXY RESIN COMPOSITIONS**

[54] **MELANGE POUR DURCIR DES COMPOSITIONS DE RESINE EPOXY**

[72] ZHOU, HUI, US  
[72] LEWIS, DAVID C., US  
[72] DARRAGAS, KATTY, BE  
[72] KLEIN, HOWARD P., US  
[72] GRIGSBY, ROBERT A., US  
[72] CHEN, FEIXIA, BE  
[73] HUNTSMAN PETROCHEMICAL LLC, US  
[85] 2018-07-23  
[86] 2017-06-16 (PCT/US2017/037941)  
[87] (WO2017/218934)  
[30] US (62/350,985) 2016-06-16



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[11] **3,013,528**  
[13] C

[51] **Int.Cl. C08F 2/22 (2006.01) B27N 3/00 (2006.01) C08J 5/24 (2006.01)**

[25] EN

[54] **THERMODEFORMABLE POLYMER/FIBER COMPOSITE**

[54] **COMPOSITE POLYMERE/FIBRE THERMOFORMABLE**

[72] KALBE, MICHAEL, DE

[72] MICHL, KATHRIN, DE

[72] BRAEUER, JUDITH, DE

[72] SCHEIDHAUER, RAINER, DE

[73] BASF SE, DE

[85] 2018-08-02

[86] 2017-02-06 (PCT/EP2017/052488)

[87] (WO2017/140520)

[30] EP (16155723.6) 2016-02-15

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[11] **3,013,850**  
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/33 (2006.01) A61K 31/404 (2006.01) A61P 1/16 (2006.01) A61P 9/00 (2006.01) A61P 13/12 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 209/10 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 405/04 (2006.01) C07D 413/04 (2006.01)**

[25] EN

[54] **HALOALLYLAMINE INDOLE AND AZAINDOLE DERIVATIVE INHIBITORS OF LYSYL OXIDASES AND USES THEREOF**

[54] **INHIBITEURS DE LYSYL OXYDASES DERIVES D'HALOGENOALLYLAMINE INDOLE ET AZAINDOLE ET LEURS UTILISATIONS**

[72] FINDLAY, ALISON DOROTHY, AU

[72] TURNER, CRAIG IVAN, AU

[72] DEODHAR, MANDAR, AU

[72] FOOT, JONATHAN STUART, AU

[72] JAROLIMEK, WOLFGANG, AU

[72] ZHOU, WENBIN, AU

[72] ROBERTSON, ALAN DUNCAN, AU

[73] PHARMAXIS LTD., AU

[85] 2018-08-07

[86] 2017-02-10 (PCT/AU2017/000039)

[87] (WO2017/136870)

[30] AU (2016900478) 2016-02-12

[30] AU (2016902593) 2016-07-01

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[11] **3,014,386**  
[13] C

[51] **Int.Cl. C07C 29/76 (2006.01) B01D 61/14 (2006.01) C07C 29/60 (2006.01)**

[25] EN

[54] **PROCESS FOR RECOVERING A METALLIC COMPONENT**

[54] **PROCEDE DE RECUPERATION D'UN COMPOSANT METALLIQUE**

[72] HUIZENGA, PIETER, NL

[72] VAN DER HEIDE, EVERT, NL

[72] HAAN, JOHANNES PIETER, NL

[72] VLAANDEREN, MICHEL, NL

[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL

[85] 2018-08-13

[86] 2017-03-06 (PCT/EP2017/055202)

[87] (WO2017/153347)

[30] EP (16159008.8) 2016-03-07

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[11] **3,015,755**  
[13] C

[51] **Int.Cl. A61K 38/13 (2006.01) A61K 31/137 (2006.01) A61K 31/255 (2006.01) A61K 31/519 (2006.01) A61K 31/661 (2006.01) A61K 31/675 (2006.01) A61K 31/7076 (2006.01) A61P 41/00 (2006.01)**

[25] EN

[54] **TREATMENT OF HEMATOPOIETIC STEM CELL TRANSPLANT PATIENTS**

[54] **TRAITEMENT DE PATIENTS AYANT SUBI UNE GREFFE DE CELLULES SOUCHES HEMATOPOIETIQUES**

[72] BUCHER, CHRISTOPH, CH

[72] GERGELY, PETER, CH

[72] KATOPODIS, ANDREAS, CH

[72] SMITH, PHILIP, CH

[73] PRIOTHERA LIMITED, IE

[85] 2018-08-24

[86] 2017-03-06 (PCT/IB2017/051291)

[87] (WO2017/153889)

[30] US (62/305,003) 2016-03-08

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[11] **3,016,500**  
[13] C

[51] **Int.Cl. A61B 5/145 (2006.01)**

[25] EN

[54] **DIRECT INFRARED ANALYSIS OF POST-TRANSLATIONAL MODIFICATION OF PROTEINS**

[54] **ANALYSE DIRECTE PAR INFRAROUGE DE MODIFICATION POST-TRADUCTIONNELLE DE PROTEINES**

[72] DELANGHE, JORIS, BE

[72] SPEECKAERT, MARIJN, BE

[72] MONTEYNE, TINNE, BE

[72] DE BEER, THOMAS, BE

[73] UNIVERSITEIT GENT, BE

[85] 2018-09-04

[86] 2017-03-06 (PCT/EP2017/055229)

[87] (WO2017/153359)

[30] EP (EP16158854.6) 2016-03-06

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[11] **3,018,438**  
[13] C

[51] **Int.Cl. B66C 13/06 (2006.01)**

[25] EN

[54] **MATERIALS MANAGEMENT SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE GESTION DE MATERIAUX**

[72] THOMSON, STANLEY, AU

[72] MILLER, ANDREW, AU

[73] VERTON IP PTY LTD, AU

[85] 2018-09-20

[86] 2016-10-07 (PCT/AU2016/050941)

[87] (WO2017/059493)

[30] AU (2015904106) 2015-10-08

[30] AU (2015905245) 2015-12-17

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[11] **3,018,998**  
[13] C

[51] **Int.Cl. H01B 7/28 (2006.01) B05B 5/12 (2006.01) B29C 45/14 (2006.01) B29C 73/00 (2006.01) H01B 3/20 (2006.01) H01B 7/17 (2006.01) H01B 9/00 (2006.01)**

[25] EN

[54] **INJECTION ELECTRICAL CONNECTOR**

[54] **CONNECTEUR ELECTRIQUE D'INJECTION**

[72] BERTINI, GLEN J., US

[72] SONGRAS, DONALD R., US

[73] NOVINIUM, LLC, US

[85] 2018-09-25

[86] 2017-04-28 (PCT/US2017/030255)

[87] (WO2017/190082)

[30] US (62/329,132) 2016-04-28

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[11] **3,021,706**  
[13] C

[51] **Int.Cl. F04B 13/00 (2006.01) F04B 43/12 (2006.01) G21F 7/06 (2006.01) G21G 1/00 (2006.01)**

[25] EN

[54] **PUMP FOR OPERATION IN RADIOACTIVE ENVIRONMENT**

[54] **POMPE POUR FONCTIONNEMENT DANS UN ENVIRONNEMENT RADIOACTIF**

[72] WALKER, MARTIN R., US  
[72] LENGER, RYAN W., US  
[72] GRAVES, KEVIN B., US  
[72] PETROFSKY, BRYAN S., US  
[73] CURIUM US LLC, US  
[85] 2018-10-19  
[86] 2016-12-30 (PCT/US2016/069409)  
[87] (WO2017/192182)  
[30] US (62/331,651) 2016-05-04  
[30] US (15/394,272) 2016-12-29

[11] **3,022,508**  
[13] C

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

[25] EN

[54] **SOLIDS WASHING IN OIL AND/OR GAS PRODUCTION**

[54] **LAVAGE DES SOLIDES DANS LA PRODUCTION DE PETROLE OU DE GAZ**

[72] BRUNTVEIT, JORGEN, NO  
[72] LYGBO, KARL OLE, NO  
[73] FOURPHASE AS, NO  
[85] 2018-10-29  
[86] 2017-05-05 (PCT/EP2017/060790)  
[87] (WO2017/191307)  
[30] GB (1607880.0) 2016-05-05

[11] **3,022,889**  
[13] C

[51] **Int.Cl. C01B 33/44 (2006.01) C08K 3/34 (2006.01) C08L 67/06 (2006.01)**

[25] EN

[54] **A PROCESS OF MANUFACTURING THICKENERS AND THE USE OF THUS PRODUCED THICKENERS IN HIGH-VISCOSITY UNSATURATED POLYESTER CONTAINING FORMULATIONS**

[54] **PROCEDE DE FABRICATION D'EPAISSISSANTS ET UTILISATION DES EPAISSISSANTS AINSI OBTENUS DANS DES FORMULATIONS CONTENANT DU POLYESTER INSATURE A HAUTE VISCOSITE**

[72] DZIWOK, KLAUS, DE  
[72] NASH, TYLER, DE  
[72] BRIELL, ROBERT, DE  
[72] COUTELLE, HELMUT, DE  
[73] BYK-CHEMIE GMBH, DE  
[85] 2018-11-01  
[86] 2017-06-19 (PCT/EP2017/064964)  
[87] (WO2017/220506)  
[30] US (15/189,584) 2016-06-22

[11] **3,026,479**  
[13] C

[51] **Int.Cl. A61K 6/836 (2020.01) A61K 6/884 (2020.01)**

[25] EN

[54] **DENTAL COMPOSITION COMPRISING A DENTAL FILLER CONTAINING A STRUCTURAL FILLER AND SILANATED GLASS FLAKES**

[54] **COMPOSE DENTAIRE COMPRENANT UN AMALGAME DENTAIRE CONTENANT UN AMALGAME STRUCTURAL ET DES PAILLETES DE VERRE SILANEES.**

[72] WEBER, CHRISTOPH, DE  
[72] WALZ, UWE, DE  
[72] NOERPEL, STEPHANIE, DE  
[73] DENTSPLY DETREY GMBH, DE  
[85] 2018-12-04  
[86] 2017-06-30 (PCT/EP2017/066323)  
[87] (WO2018/002326)  
[30] EP (16177317.1) 2016-06-30

[11] **3,026,751**  
[13] C

[51] **Int.Cl. H02K 17/42 (2006.01) F17D 5/06 (2006.01)**

[25] EN

[54] **POWER SYSTEMS AND METHODS FOR A PIPELINE INSPECTION APPARATUS**

[54] **SYSTEMES ET PROCEDES D'ALIMENTATION POUR UN APPAREIL D'INSPECTION DE PIPELINE**

[72] PAPINI, FRANCESCO, DE  
[72] FISENI, ALEXANDER FELIX, DE  
[72] BOELD, CHRISTOPH, DE  
[73] BAKER HUGHES ENERGY TECHNOLOGY UK LIMITED, GB  
[85] 2018-12-06  
[86] 2017-06-13 (PCT/US2017/037313)  
[87] (WO2017/218578)  
[30] US (15/180,956) 2016-06-13

[11] **3,027,767**  
[13] C

[51] **Int.Cl. A61F 9/00 (2006.01)**

[25] EN

[54] **TOPICAL ADMINISTRATION METHOD**

[54] **PROCEDE D'ADMINISTRATION TOPIQUE**

[72] GRAF, GESCHE, DE  
[72] AHMED, YASIN, GB  
[72] LEGNER, STEPHANIE, DE  
[72] KEMP, PHILIP, GB  
[72] LOSSL, VERONIKA, DE  
[72] LOSCHER, FRANK, DE  
[72] HOPPMANN, EIKE, DE  
[72] MAUDEN, JORG MARTIN, DE  
[72] BURKHARDT, SYBILLE, DE  
[73] NOVALIQ GMBH, DE  
[85] 2018-12-14  
[86] 2017-06-21 (PCT/EP2017/065163)  
[87] (WO2017/220625)  
[30] EP (16176074.9) 2016-06-23  
[30] EP (16180202.0) 2016-07-19  
[30] EP (17169837.6) 2017-05-06

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[11] **3,028,045**

[13] C

- [51] **Int.Cl. G12B 13/00 (2006.01) A23L 5/00 (2016.01) A23P 30/00 (2016.01)**  
[25] EN  
[54] **CALIBRATION APPARATUSES AND METHODS FOR FOOD PROCESSING MACHINES**  
[54] **APPAREILS ET METHODES D'ETALONNAGE DESTINES A DES MACHINES DE TRAITEMENT DES ALIMENTS**  
[72] PHAN, TUAN ANH, US  
[72] MERRILL, ERNEST, US  
[72] JONES, MATT, US  
[72] TOMLIN, JAMES S., US  
[73] MP EQUIPMENT, LLC, US  
[86] (3028045)  
[87] (3028045)  
[22] 2018-12-18  
[30] US (62/607,174) 2017-12-18  
[30] US (16/222,172) 2018-12-17

[11] **3,031,636**

[13] C

- [51] **Int.Cl. F16H 1/28 (2006.01) F16H 1/30 (2006.01) F16H 1/32 (2006.01) F16H 1/34 (2006.01) F16H 25/06 (2006.01)**  
[25] EN  
[54] **HYPOCYCLOID SPEED BUFFER**  
[54] **TAMPON DE VITESSE HYPOCYCLOIDE**  
[72] TORY, DAVID A., US  
[73] ECA MEDICAL INSTRUMENTS, US  
[85] 2019-01-22  
[86] 2017-01-25 (PCT/US2017/014970)  
[87] (WO2018/044343)  
[30] US (62/381,491) 2016-08-30  
[30] US (62/381,497) 2016-08-30

[11] **3,031,752**

[13] C

- [51] **Int.Cl. A01N 27/00 (2006.01) A01N 65/22 (2009.01) A01N 65/28 (2009.01) A23K 20/10 (2016.01) A23K 20/111 (2016.01) A23K 20/195 (2016.01) A23K 50/75 (2016.01) A01N 31/08 (2006.01) A01N 65/00 (2009.01) A61K 36/534 (2006.01) A61K 36/537 (2006.01) A61K 36/61 (2006.01)**  
[25] EN  
[54] **METHOD FOR CONTROLLING POULTRY COCCIDIOSIS**  
[54] **PROCEDE DE LUTTE CONTRE LA COCCIDIOSE DE LA VOLAILLE**  
[72] KRULL, WERNER, CH  
[72] BARBOUR, ELIE, US  
[73] KRULL, WERNER, CH  
[73] BARBOUR, ELIE, US  
[85] 2019-01-23  
[86] 2017-07-24 (PCT/EP2017/068576)  
[87] (WO2018/024516)  
[30] US (15/228,969) 2016-08-04

[11] **3,031,883**

[13] C

- [51] **Int.Cl. E21B 47/00 (2012.01) E21B 43/12 (2006.01) E21B 47/12 (2012.01)**  
[25] EN  
[54] **METHOD OF FAULT DETECTION AND RECOVERY IN A TUBING STRING LOCATED IN A HYDROCARBON WELL, AND APPARATUS FOR SAME**  
[54] **METHODE DE DETECTION DE DEFAUT ET DE RECUPERATION DANS UN TRAIN DE TIGES SITUE DANS UN PUIT D'HYDROCARBURE, ET APPAREIL ASSOCIE**  
[72] WILLIAMSON, PATRICK, CA  
[72] TAJALLIPOUR, RAMIN, CA  
[73] NCS MULTISTAGE INC., CA  
[86] (3031883)  
[87] (3031883)  
[22] 2019-01-30  
[30] US (62/624,082) 2018-01-30

[11] **3,035,010**

[13] C

- [51] **Int.Cl. F16H 1/28 (2006.01) F16H 1/30 (2006.01) F16H 1/32 (2006.01) F16H 1/34 (2006.01) F16H 25/06 (2006.01)**  
[25] EN  
[54] **HYPOCYCLOID DEVICE**  
[54] **DISPOSITIF HYPOCYCLOIDE**  
[72] TORY, DAVID A., US  
[73] ECA MEDICAL INSTRUMENTS, US  
[85] 2019-02-25  
[86] 2017-01-25 (PCT/US2017/014967)  
[87] (WO2018/044342)  
[30] US (62/381,491) 2016-08-30  
[30] US (62/381,497) 2016-08-30

[11] **3,039,705**

[13] C

- [51] **Int.Cl. H04L 12/12 (2006.01) H04L 51/02 (2022.01) H04L 9/32 (2006.01)**  
[25] EN  
[54] **DYNAMIC AND CRYPTOGRAPHICALLY SECURE AUGMENTATION OF PARTICIPANTS IN PROGRAMMATICALLY ESTABLISHED CHATBOT SESSIONS**  
[54] **AUGMENTATION SECURITAIRE CARTOGRAPHIQUE ET DYNAMIQUE DE PARTICIPANTS AUX SEANCES DE ROBOT CONVERSATIONNEL PAR PROGRAMMATION**  
[72] MOON, TAE GYUN, CA  
[72] MCCARTER, ROBERT ALEXANDER, CA  
[72] ROBERTS, KHEIVER KAYODE, CA  
[73] THE TORONTO-DOMINION BANK, CA  
[86] (3039705)  
[87] (3039705)  
[22] 2019-04-08

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[11] **3,039,744**  
[13] C

[51] **Int.Cl. G01N 33/08 (2006.01) A01K 45/00 (2006.01)**  
[25] EN  
[54] **EGG CANDLING AND RELOCATION APPARATUS FOR USE WITH IN OVO INJECTION MACHINES**  
[54] **APPAREIL DE MIRAGE ET DE DEPLACEMENT D'OEUF S POUR MACHINES A INJECTION IN OVO**  
[72] LESLIE, CHRISTOPHER DAVIS, US  
[73] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE  
[85] 2019-02-22  
[86] 2017-08-25 (PCT/US2017/048532)  
[87] (WO2018/039511)  
[30] US (62/379,337) 2016-08-25

[11] **3,042,571**  
[13] C

[51] **Int.Cl. H04W 72/11 (2023.01) H04W 36/00 (2009.01)**  
[25] EN  
[54] **USER EQUIPMENT, BASE STATION, WIRELESS COMMUNICATION NETWORK, DATA SIGNAL AND METHOD TO PROVIDE ENHANCED SPS CONTROL AND CONTINUOUS SPS AFTER HANDOVER**  
[54] **EQUIPEMENT UTILISATEUR, STATION DE BASE, RESEAU DE COMMUNICATION SANS FIL, SIGNAL DE DONNEES ET PROCEDE PERMETTANT D'ASSURER UNE COMMANDE DE SPS AMELIOREE ET UNE SPS CONTINUE APRES UN TRANSFERT INTERCELLULAIRE**  
[72] GOKTEPE, BARIS, DE  
[72] FEHRENBACH, THOMAS, DE  
[72] THIELE, LARS, DE  
[72] SANCHEZ DE LA FUENTE, YAGO, DE  
[72] WIRTH, THOMAS, DE  
[72] HELLGE, CORNELIUS, DE  
[72] SCHIERL, THOMAS, DE  
[73] KONINKLIJKE PHILIPS N.V., NL  
[85] 2019-05-02  
[86] 2017-10-25 (PCT/EP2017/077299)  
[87] (WO2018/082985)  
[30] EP (16197182.5) 2016-11-03

[11] **3,046,406**  
[13] C

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/36 (2006.01) A61K 38/48 (2006.01) A61P 7/00 (2006.01)**  
[25] EN  
[54] **A BLOOD COAGULATION FACTOR REPLACEMENT PRODUCT FOR USE IN THE TREATMENT OR PROPHYLAXIS OF BLEEDINGS**  
[54] **PRODUIT DE REMPLACEMENT DE FACTEUR DE COAGULATION SANGUINE POUR UTILISATION DANS LE TRAITEMENT PROPHYLACTIQUE OU THERAPEUTIQUE DES HEMORRAGIES**  
[72] GROTTKE, OLIVER, DE  
[72] HERZOG, EVA, DE  
[72] HOCHLEITNER, GERALD, AT  
[73] CSL BEHRING GMBH, DE  
[85] 2019-06-06  
[86] 2018-02-09 (PCT/EP2018/053240)  
[87] (WO2018/146235)  
[30] EP (17155420.7) 2017-02-09

[11] **3,047,083**  
[13] C

[51] **Int.Cl. C10M 149/06 (2006.01) C08F 8/32 (2006.01)**  
[25] EN  
[54] **MULTI-FUNCTIONAL OLEFIN COPOLYMERS AND LUBRICATING COMPOSITIONS CONTAINING SAME**  
[54] **COPOLYMERES D'OLEFINE MULTIFONCTIONNELS ET COMPOSITIONS LUBRIFIANTES LES CONTENANT**  
[72] PIROUZ, SOLMAZ, US  
[72] JIANG, SHENG, US  
[73] AFTON CHEMICAL CORPORATION, US  
[85] 2019-06-13  
[86] 2017-12-08 (PCT/US2017/065410)  
[87] (WO2018/111726)  
[30] US (15/381,701) 2016-12-16

[11] **3,051,681**  
[13] C

[51] **Int.Cl. A01N 43/54 (2006.01) A01N 33/18 (2006.01) A01N 43/64 (2006.01) A01N 43/707 (2006.01)**  
[25] EN  
[54] **HERBICIDAL COMBINATION COMPRISING SAFLUFENACIL, A DINITROANILINE HERBICIDE AND A THIRD HERBICIDE**  
[54] **COMBINAISON HERBICIDE COMPRENANT UN SAFLUFENACIL, UN HERBICIDE DE DINITROANILINE ET UN TROISIEME HERBICIDE**  
[72] FABRI, CARLOS EDUARDO, BR  
[72] SHROFF, RAJNIKANT DEVIDAS, IN  
[72] KUMAR, AJIT, IN  
[72] SHROFF, JAIDEV RAJNIKANT, AE  
[72] SHROFF, VIKRAM RAJNIKANT, AE  
[73] UPL LTD, IN  
[85] 2019-07-25  
[86] 2018-01-30 (PCT/IB2018/050547)  
[87] (WO2018/142273)  
[30] IN (201731003641) 2017-01-31  
[30] IN (201731042834) 2017-11-29

[11] **3,054,448**  
[13] C

[51] **Int.Cl. H01M 10/0565 (2010.01)**  
[25] EN  
[54] **BLOCK COPOLYMER ELECTROLYTE FOR LITHIUM BATTERIES**  
[54] **ELECTROLYTE EN COPOLYMER SEQUENCE POUR BATTERIES AU LITHIUM**  
[72] VALLEE, ALAIN, CA  
[72] LEBLANC, PATRICK, CA  
[72] GUILLERM, BRIEUC, CA  
[73] BLUE SOLUTIONS CANADA INC., CA  
[85] 2019-08-23  
[86] 2018-03-09 (PCT/CA2018/000050)  
[87] (WO2018/161150)  
[30] US (62/469,242) 2017-03-09  
[30] US (15/821,991) 2017-11-24

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[11] **3,054,619**  
[13] C

[51] **Int.Cl. G06T 15/00 (2011.01) G09G 5/00 (2006.01)**

[25] EN

[54] **MIXED REALITY SYSTEM WITH VIRTUAL CONTENT WARPING AND METHOD OF GENERATING VIRTUAL CONTENT USING SAME**

[54] **SYSTEME DE REALITE MIXTE A DEFORMATION DE CONTENU VIRTUEL ET PROCEDE DE GENERATION DE CONTENU VIRTUEL L'UTILISANT**

[72] NOURAI, REZA, US

[72] TAYLOR, ROBERT BLAKE, US

[73] MAGIC LEAP, INC., US

[85] 2019-08-23

[86] 2018-03-16 (PCT/US2018/022993)

[87] (WO2018/170470)

[30] US (62/472,985) 2017-03-17

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[11] **3,055,596**  
[13] C

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 34/06 (2006.01)**

[25] EN

[54] **APPARATUSES, SYSTEMS AND METHODS FOR PRODUCING HYDROCARBON MATERIAL FROM A SUBTERRANEAN FORMATION**

[54] **APPAREILS, SYSTEMES ET PROCEDES DE PRODUCTION D'UN MATERIAU HYDROCARBONE A PARTIR D'UNE FORMATION SOUTERRAINE**

[72] RAVENSBERGEN, JOHN, CA

[72] LAUN, LYLE, CA

[72] WERRIES, MICHAEL, CA

[72] JOHNSON, TIM, CA

[72] MONTERO, JUAN, CA

[72] GILLIS, BROCK, CA

[73] NCS MULTISTAGE INC., CA

[85] 2019-09-06

[86] 2018-03-06 (PCT/CA2018/050261)

[87] (WO2018/161158)

[30] US (62/467,855) 2017-03-07

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[11] **3,056,150**  
[13] C

[51] **Int.Cl. H04L 9/30 (2006.01) G09C 5/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR SELECTING A SECURE PRIME FOR FINITE FIELD DIFFIE-HELLMAN**

[54] **PROCEDE ET SYSTEME DE SELECTION D'UNE PRIME SECURISEE POUR DIFFIE-HELLMAN A CHAMP FINI**

[72] BROWN, DANIEL RICHARD L., CA

[73] BLACKBERRY LIMITED, CA

[85] 2019-09-11

[86] 2018-03-15 (PCT/CA2018/050313)

[87] (WO2018/176122)

[30] US (15/470,259) 2017-03-27

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[11] **3,056,247**  
[13] C

[51] **Int.Cl. G02B 27/01 (2006.01) G02B 5/18 (2006.01) G02B 27/44 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR WAVEGUIDE PROJECTOR WITH WIDE FIELD OF VIEW**

[54] **PROCEDE ET SYSTEME POUR PROJECTEUR DE GUIDE D'ONDES A LARGE CHAMP DE VISION**

[72] SCHOWENGERDT, BRIAN T., US

[72] WATSON, MATHEW D., US

[72] MELVILLE, CHARLES DAVID, US

[73] MAGIC LEAP, INC., US

[85] 2019-09-11

[86] 2018-03-21 (PCT/US2018/023510)

[87] (WO2018/175546)

[30] US (62/474,493) 2017-03-21

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[11] **3,059,984**  
[13] C

[51] **Int.Cl. H05K 5/02 (2006.01) H01M 10/623 (2014.01) H01M 10/6563 (2014.01) H01M 10/667 (2014.01) H01M 50/247 (2021.01) H05K 7/20 (2006.01)**

[25] EN

[54] **POWER SUPPLY ASSEMBLY WITH FAN ASSEMBLY FOR ELECTRONIC DEVICE**

[54] **ENSEMBLE D'ALIMENTATION ELECTRIQUE AVEC ENSEMBLE VENTILATEUR POUR DISPOSITIF ELECTRONIQUE**

[72] AGUIRRE, JOHN, US

[72] JIN, YOULIN, US

[72] REMSBURG, RALPH, US

[72] ROHENA, GUILLERMO PADIN, US

[72] RYNK, EVAN FRANCIS, US

[72] PEDROZA, CARLOS JULIO SUATE, US

[72] QUARTANA, GARY, JR., US

[72] FRASER, BRADLEY, US

[72] AWAD, HANEY, US

[72] WHEELER, WILLIAM, US

[72] NATSUME, SHIGERU, US

[73] MAGIC LEAP, INC., US

[85] 2019-10-11

[86] 2018-05-29 (PCT/US2018/034948)

[87] (WO2018/222618)

[30] US (62/512,635) 2017-05-30

[30] US (62/671,379) 2018-05-14

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January 30, 2024**

[11] **3,061,026**  
[13] C

[51] **Int.Cl. C07D 209/30 (2006.01) A61K 31/404 (2006.01) A61K 31/407 (2006.01) A61K 31/437 (2006.01) A61P 31/14 (2006.01) C07D 209/32 (2006.01) C07D 209/42 (2006.01) C07D 471/04 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **SUBSTITUTED INDOLINE DERIVATIVES AS DENGUE VIRAL REPLICATION INHIBITORS**

[54] **DERIVES D'INDOLINE SUBSTITUES UTILISES EN TANT QU'INHIBITEURS DE REPLICATION DU VIRUS DE LA DENGUE**

[72] BONFANTI, JEAN-FRANCOIS, FR

[72] KESTELEYN, BART RUDOLF ROMANIE, BE

[72] BARDIOT, DOROTHEE ALICE MARIE-EVE, BE

[72] MARCHAND, ARNAUD DIDIER M, BE

[72] COESEMANS, ERWIN, BE

[72] DE BOECK, BENOIT CHRISTIAN ALBERT GHISLAIN, BE

[72] RABOISSON, PIERRE JEAN-MARIE BERNARD, BE

[73] JANSSEN PHARMACEUTICALS, INC., US

[73] KATHOLIEKE UNIVERSITEIT LEUVEN, BE

[85] 2019-10-22

[86] 2018-05-18 (PCT/EP2018/063029)

[87] (WO2018/215316)

[30] EP (17172247.3) 2017-05-22

[11] **3,061,885**  
[13] C

[51] **Int.Cl. G02B 6/44 (2006.01)**

[25] EN

[54] **OPTICAL FIBER CABLE AND METHOD OF MANUFACTURING OPTICAL FIBER CABLE**

[54] **CABLE A FIBRES OPTIQUES ET METHODE DE FABRICATION**

[72] SHIMIZU, SHOGO, JP

[72] NAMAZUE, AKIRA, JP

[72] TAKI, GO, JP

[72] OSATO, KEN, JP

[73] FUJIKURA LTD., JP

[85] 2019-10-29

[86] 2018-05-09 (PCT/JP2018/017936)

[87] (WO2018/221142)

[30] JP (2017-109872) 2017-06-02

[30] JP (2018-039696) 2018-03-06

[11] **3,062,523**  
[13] C

[51] **Int.Cl. H04B 7/06 (2006.01) H04B 7/08 (2006.01)**

[25] EN

[54] **USER EQUIPMENT, BASE STATION AND METHODS IN A RADIO COMMUNICATIONS NETWORK**

[54] **EQUIPEMENT UTILISATEUR, STATION DE BASE ET PROCEDES DANS UN RESEAU DE COMMUNICATION RADIO**

[72] DA SILVA, ICARO L. J., SE

[72] TIDESTAV, CLAES, SE

[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE

[85] 2019-11-05

[86] 2018-02-27 (PCT/SE2018/050186)

[87] (WO2018/203785)

[30] US (62/501,823) 2017-05-05

[11] **3,062,680**  
[13] C

[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1486 (2006.01) A61B 5/1495 (2006.01)**

[25] EN

[54] **SENSOR SYSTEMS HAVING MULTIPLE PROBES AND ELECTRODE ARRAYS**

[54] **SYSTEMES DE CAPTEUR AYANT DE MULTIPLES SONDAS ET RESEAUX D'ELECTRODES**

[72] GOTTLIEB, REBECCA K., US

[72] CHIU, CHIA-HUNG, US

[72] RAMACHANDRAN, MEENA, US

[72] DANGUI-PATEL, NANDITA, US

[72] ROSE, JEFFERSON, US

[72] RAO, ASHWIN K., US

[72] WANG, HSIFU, US

[72] LUO, YING, US

[73] MEDTRONIC MINIMED, INC., US

[86] (3062680)

[87] (3062680)

[22] 2011-06-22

[62] 2,801,714

[30] US (61/357,803) 2010-06-23

[30] US (61/385,418) 2010-09-22

[30] US (12/914,969) 2010-10-28

[30] US (13/165,061) 2011-06-21

[11] **3,064,609**  
[13] C

[51] **Int.Cl. H01L 21/20 (2006.01) B05B 12/16 (2018.01) B05D 1/32 (2006.01) B05D 3/06 (2006.01) H01L 21/288 (2006.01) C09D 5/24 (2006.01)**

[25] EN

[54] **METHOD OF PATTERNED DEPOSITION EMPLOYING PRESSURIZED FLUIDS AND THERMAL GRADIENTS**

[54] **PROCEDE DE DEPOT A MOTIF EMPLOYANT DES FLUIDES SOUS PRESSION ET DES GRADIENTS THERMIQUES**

[72] KAAKE, LOREN GREGORY, CA

[73] SIMON FRASER UNIVERSITY, CA

[85] 2019-11-22

[86] 2018-06-01 (PCT/CA2018/050663)

[87] (WO2018/218373)

[30] US (62/514,265) 2017-06-02

[11] **3,065,551**  
[13] C

[51] **Int.Cl. C09D 163/00 (2006.01)**

[25] EN

[54] **WATERBORNE EPOXY COATING COMPOSITION**

[54] **COMPOSITION DE REVETEMENT EPOXYDIQUE A L'EAU**

[72] YANG, WEIJUN, CN

[72] LI, HU, CN

[72] CUI, LONGLAN, CN

[72] JIANG, SIYUAN, CN

[72] WANG, TAO, CN

[72] CAI, YU, CN

[72] TANG, JIA, CN

[72] VAN DYK, ANTONY KEITH, US

[73] DOW GLOBAL TECHNOLOGIES LLC, US

[73] ROHM AND HAAS COMPANY, US

[85] 2019-11-29

[86] 2017-06-02 (PCT/CN2017/086906)

[87] (WO2018/218631)

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[11] **3,066,604**  
[13] C

[51] **Int.Cl. A01N 37/42 (2006.01) A01N 55/02 (2006.01) A01P 21/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS COMPRISING OXALOACETIC ACID DERIVATIVES FOR REGULATING PLANT GROWTH, METHODS FOR TREATING PLANTS THEREWITH, AND ACTIVE INGREDIENT THEREOF**  
[54] **COMPOSITIONS COMPRENANT DES DERIVES D'ACIDE OXALOACETIQUE POUR REGULER LA CROISSANCE DES PLANTES, METHODES POUR TRAITER LES PLANTES ET INGREDIENT ACTIF CONNEXE**  
[72] GORBUNOV, SERGEI VALERYEVICH, RU  
[73] STARIKOV, IVAN ALEKSANDROVICH, RU  
[73] GORBUNOV, SERGEI VALERYEVICH, RU  
[85] 2019-12-06  
[86] 2017-06-19 (PCT/RU2017/000432)  
[87] (WO2017/217892)  
[30] RU (2016123990) 2016-06-17

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[11] **3,070,235**  
[13] C

[51] **Int.Cl. A23G 1/00 (2006.01) A23L 5/20 (2016.01) A23P 10/22 (2016.01) A23G 1/04 (2006.01) A23G 1/12 (2006.01) B01D 53/26 (2006.01) B02C 23/00 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUS FOR PROCESSING CHOCOLATE**  
[54] **PROCEDES ET APPAREIL POUR TRANSFORMER LE CHOCOLAT**  
[72] RUBIN, MATTHEW J., US  
[72] AMBRECHT, ADAM D., US  
[72] HALSTEAD, JESSICA CLAIRE, US  
[72] WEIBYE, MARTIN, US  
[73] RUBIN, MATTHEW J., US  
[73] AMBRECHT, ADAM D., US  
[73] HALSTEAD, JESSICA CLAIRE, US  
[73] WEIBYE, MARTIN, US  
[73] TRUE ESSENCE FOODS INC., US  
[85] 2020-01-16  
[86] 2018-07-16 (PCT/US2018/042282)  
[87] (WO2019/018285)  
[30] US (62/534,715) 2017-07-20  
[30] US (15/989,840) 2018-05-25

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[11] **3,075,498**  
[13] C

[51] **Int.Cl. G10D 13/02 (2020.01)**  
[25] EN  
[54] **TENSIONING SYSTEM FOR VIBRATING MEMBRANES**  
[54] **SYSTEME DE TENSION POUR MEMBRANES VIBRANTES**  
[72] WELCH, SAMUEL JUSTIN, US  
[72] AUPELL, PATRICK B., US  
[73] WELCH TUNING SYSTEMS, INC., US  
[85] 2020-03-10  
[86] 2018-09-04 (PCT/US2018/049350)  
[87] (WO2019/055244)  
[30] US (62/560,060) 2017-09-18  
[30] US (16/120,866) 2018-09-04

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[11] **3,075,951**  
[13] C

[51] **Int.Cl. H01M 10/0565 (2010.01) H01M 10/0525 (2010.01) H01M 6/18 (2006.01)**  
[25] FR  
[54] **SOLID POLYMER ELECTROLYTE COMPRISING A SOLVATING POLYMER, A LITHIUM SALT AND A SELECTED HALOGENATED POLYMER, AND BATTERY COMPRISING SAME**  
[54] **ELECTROLYTE POLYMERE SOLIDE COMPRENANT UN POLYMERE SOLVATANT, UN SEL DE LITHIUM ET UN POLYMERE HALOGENE SELECTIONNE ET BATTERIE LE COMPRENANT**  
[72] BERNARDO, PHILIPPE, FR  
[72] BODENEZ, VINCENT, FR  
[72] DESCHAMPS, MARC, FR  
[72] DRU, MATHIEU, FR  
[72] LECUYER, MARGAUD, FR  
[73] BLUE SOLUTIONS, FR  
[85] 2020-03-13  
[86] 2018-09-17 (PCT/FR2018/052270)  
[87] (WO2019/053388)  
[30] FR (1758601) 2017-09-18

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[11] **3,076,069**  
[13] C

[51] **Int.Cl. G01N 15/1429 (2024.01)**  
[25] EN  
[54] **LIGHT SCATTERING DETECTORS AND METHODS FOR THE SAME**  
[54] **DETECTEURS DE DIFFUSION DE LUMIERE ET LEURS PROCEDES**  
[72] HANEY, MAX, US  
[72] MURPHY, MICHAEL P., US  
[73] TOSOH CORPORATION, JP  
[85] 2020-04-16  
[86] 2019-01-02 (PCT/US2019/012095)  
[87] (WO2020/142096)

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[11] **3,076,641**  
[13] C

[51] **Int.Cl. G01N 27/64 (2006.01) H01J 49/10 (2006.01) H01J 49/26 (2006.01)**  
[25] EN  
[54] **AN ANALYTICAL APPARATUS UTILISING ELECTRON IMPACT IONISATION**  
[54] **APPAREIL D'ANALYSE METTANT EN OEUVRE L'IONISATION PAR IMPACT ELECTRONIQUE**  
[72] SCHANEN, PIERRE, DE  
[73] MARKES INTERNATIONAL LIMITED, GB  
[86] (3076641)  
[87] (3076641)  
[22] 2014-02-19  
[62] 2,901,549  
[30] GB (1302818.8) 2013-02-19

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[11] **3,079,286**  
[13] C

[51] **Int.Cl. A01D 45/00 (2018.01) A01D 45/06 (2006.01) A23N 15/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR REMOVING BIOMASS FROM STEM**  
[54] **SYSTEME ET METHODE D'ELIMINATION DE BIOMASSES DANS DES CELLULES SOUCHES**  
[72] KOLBET, KARL N., US  
[73] SAFARI ENTERPRISES L.L.C., US  
[86] (3079286)  
[87] (3079286)  
[22] 2020-04-23  
[30] US (16/824,909) 2020-03-20

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[11] **3,080,829**  
[13] C

[51] **Int.Cl. B02C 4/32 (2006.01) B02C 4/02 (2006.01)**  
[25] EN  
[54] **MILLING SYSTEM AND METHOD**  
[54] **METHODE ET SYSTEME DE BROYAGE**  
[72] TRACY, JOSHUA, US  
[72] PEARSON, ALEX, US  
[72] OLSON, ROY, US  
[73] PEARSON INC., US  
[86] (3080829)  
[87] (3080829)  
[22] 2020-05-12  
[30] US (16/411,223) 2019-05-14

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[11] **3,082,951**  
[13] C

[51] **Int.Cl. C07H 15/04 (2006.01) A61K 47/64 (2017.01) A61K 39/108 (2006.01) C07H 15/08 (2006.01) C07H 15/18 (2006.01) C07H 15/26 (2006.01)**  
[25] EN  
[54] **VACCINE AGAINST KLEBSIELLA PNEUMONIAE**  
[54] **VACCIN CONTRE KLEBSIELLA PNEUMONIAE**  
[72] NAINI, ARUN, DE  
[72] KNOPP, DANIEL, DE  
[72] MONNANDA, BOPANNA, DE  
[72] VON BONIN, ARNE, CH  
[72] PEREIRA, CLANEY LEBEV, DE  
[73] IDORSIA PHARMACEUTICALS LTD, CH  
[85] 2020-05-19  
[86] 2018-11-30 (PCT/EP2018/083245)  
[87] (WO2019/106200)  
[30] EP (17204806.8) 2017-11-30

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[11] **3,084,781**  
[13] C

[51] **Int.Cl. G01R 33/565 (2006.01)**  
[25] EN  
[54] **MAGNETIC RESONANCE IMAGING SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES D'IMAGERIE PAR RESONNANCE MAGNETIQUE**  
[72] STAINSBY, JEFF ALAN, CA  
[72] HARRIS, CHAD TYLER, CA  
[73] SYNAPTIVE MEDICAL INC., CA  
[86] (3084781)  
[87] (3084781)  
[22] 2020-06-24  
[30] US (16/449,624) 2019-06-24

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[11] **3,087,528**  
[13] C

[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/404 (2006.01) A61K 45/06 (2006.01)**  
[25] EN  
[54] **INDOLE DERIVATIVES AS ESTROGEN RECEPTOR DEGRADERS**  
[54] **DERIVES D'INDOLE EN TANT QU'AGENTS DE DEGRADATION DES RECEPTEURS DES OESTROGENES**  
[72] QIAN, YIMIN, US  
[72] CREW, ANDREW P., US  
[72] DONG, HANQING, US  
[72] WANG, JING, US  
[72] CREWS, CRAIG M., US  
[73] ARVINAS OPERATIONS, INC., US  
[85] 2020-07-02  
[86] 2017-09-15 (PCT/US2017/051914)  
[87] (WO2018/053354)  
[30] US (62/395,228) 2016-09-15

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[11] **3,088,466**  
[13] C

[51] **Int.Cl. H04L 41/50 (2022.01) H04L 41/5067 (2022.01) H04L 43/50 (2022.01) H04L 67/10 (2022.01) H04L 67/12 (2022.01) H04L 67/562 (2022.01) H04L 67/02 (2022.01)**  
[25] EN  
[54] **MONITORING OF IOT SIMULATED USER EXPERIENCE**  
[54] **SURVEILLANCE DE L'EXPERIENCE UTILISATEUR SIMULEE DE L'INTERNET DES OBJETS (IDO)**  
[72] LEBOYER, ANTOINE, CH  
[72] STEERE, GARY, CH  
[72] PIOT, JEAN-FRANCOIS, CH  
[73] MARTELLO TECHNOLOGIES CORPORATION, CA  
[85] 2020-07-14  
[86] 2019-01-07 (PCT/EP2019/050216)  
[87] (WO2019/149471)  
[30] US (62/625,016) 2018-02-01

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[11] **3,092,458**  
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A23G 1/00 (2006.01) A23G 1/02 (2006.01) A61K 31/4178 (2006.01) A61K 31/4196 (2006.01) A61K 31/465 (2006.01) A61K 36/185 (2006.01)**  
[25] EN  
[54] **ORAL DOSAGE FORM CONTAINING THEOBROMINE-FREE COCOA**  
[54] **FORME PHARMACEUTIQUE ORALE CONTENANT DU CACAO SANS THEOBROMINE**  
[72] HILLE, THOMAS, DE  
[72] WAUER, GABRIEL, DE  
[72] SEIBERTZ, FRANK, DE  
[73] LTS LOHMANN THERAPIE-SYSTEME AG, DE  
[85] 2020-08-26  
[86] 2018-03-01 (PCT/EP2018/055105)  
[87] (WO2019/166098)

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[11] **3,093,011**  
[13] C

[51] **Int.Cl. A61B 17/02 (2006.01)**  
[25] EN  
[54] **TISSUE RETRACTION DEVICE AND DELIVERY SYSTEM**  
[54] **DISPOSITIF DE RETRACTION DE TISSU ET SYSTEME DE MISE EN PLACE**  
[72] UNGER, JOHN, US  
[72] OTO, CHRISTOPHER KIYONAO, US  
[72] LEE, DANNY SHU-HUAN, US  
[72] WALES, RYAN V., US  
[72] BURNHAM, ALEXANDER JOSEPH, US  
[72] ANDREOTTI, TRACY, US  
[73] BOSTON SCIENTIFIC SCIMED, INC., US  
[85] 2020-09-02  
[86] 2019-04-30 (PCT/US2019/029986)  
[87] (WO2019/213126)  
[30] US (62/665,441) 2018-05-01



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[13] C

[51] **Int.Cl. C22C 38/02 (2006.01) C21D 6/00 (2006.01) C21D 8/02 (2006.01) C21D 9/00 (2006.01) C21D 9/46 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/08 (2006.01) C22C 38/12 (2006.01) C22C 38/44 (2006.01) C22C 38/48 (2006.01) C22C 38/58 (2006.01)**

[25] EN

[54] **LOW ALLOY THIRD GENERATION ADVANCED HIGH STRENGTH STEEL AND PROCESS FOR MAKING**

[54] **ACIER A HAUTE RESISTANCE DE POINTE DE TROISIEME GENERATION FAIBLEMENT ALLIE ET PROCEDE POUR LA FABRICATION DE CELUI-CI**

[72] GARZA-MARTINEZ, LUIS GONZALO, US

[72] PAVLINA, ERIK JAMES, US

[73] AK STEEL PROPERTIES, INC., US

[85] 2020-09-04

[86] 2019-04-01 (PCT/US2019/025198)

[87] (WO2019/191765)

[30] US (62/650,620) 2018-03-30

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[11] **3,095,333**  
[13] C

[51] **Int.Cl. G01N 33/53 (2006.01) B81B 7/02 (2006.01) C12M 1/00 (2006.01) C12M 1/34 (2006.01) C12Q 1/00 (2006.01)**

[25] EN

[54] **MICROFLUIDIC DEVICES HAVING SEQUESTRATION PENS AND METHODS OF TESTING BIOLOGICAL MICRO-OBJECTS WITH SAME**

[54] **DISPOSITIFS MICROFLUIDIQUES COMPORTANT DES ENCEINTES D'ISOLEMENT ET PROCEDES D'ANALYSE DE MICRO-OBJETS BIOLOGIQUES FAISANT APPEL A CEUX-CI**

[72] HOBBS, ERIC D., US

[72] WHITE, MARK P., US

[72] NEVILL, J. TANNER, US

[72] MALLEO, DANIELE, US

[72] SHORT, STEVEN W., US

[73] BERKELEY LIGHTS, INC., US

[86] (3095333)

[87] (3095333)

[22] 2014-10-22

[62] 2,927,701

[30] US (61/996,969) 2013-10-22

[30] US (62/058,658) 2014-10-01

[30] US (14/520,568) 2014-10-22

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[11] **3,097,619**  
[13] C

[51] **Int.Cl. B24C 1/00 (2006.01) B24C 5/04 (2006.01)**

[25] FR

[54] **DEVICE AND METHOD FOR THE SURFACE TREATMENT OF A MATERIAL**

[54] **DISPOSITIF ET PROCEDE POUR LE TRAITEMENT SUPERFICIEL D'UN MATERIAU**

[72] TAZIBT, ABOU-EL-FOUTOUH, FR

[72] ASCANI NEE NIVELET, JENNIFER, FR

[73] CRITT TECHNIQUES JET FLUIDE ET USINAGE, FR

[85] 2020-10-19

[86] 2019-05-03 (PCT/EP2019/061437)

[87] (WO2019/211462)

[30] FR (1853853) 2018-05-04

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[11] **3,098,284**  
[13] C

[51] **Int.Cl. E01H 5/06 (2006.01)**

[25] EN

[54] **PLOW STEEL FOR A SNOW PLOW, AND METHODS FOR MANUFACTURING AND USING SUCH A PLOW STEEL**

[54] **ACIER DE CHARRUE POUR CHASSE-NEIGE, ET PROCEDES DE FABRICATION ET D'UTILISATION D'UN TEL ACIER DE CHARRUE**

[72] SJOSTROM, LARS GORAN, SE

[73] PARTREX AB, SE

[85] 2020-10-23

[86] 2019-04-15 (PCT/SE2019/050349)

[87] (WO2019/209157)

[30] SE (1850480-3) 2018-04-24

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[11] **3,100,170**  
[13] C

[51] **Int.Cl. H04L 9/30 (2006.01) H04L 9/32 (2006.01) H04L 12/12 (2006.01) H04L 12/28 (2006.01)**

[25] FR

[54] **METHOD FOR SECURING DATA FLOW BETWEEN COMMUNICATION EQUIPMENT AND A REMOTE TERMINAL, EQUIPMENT IMPLEMENTING THE METHOD**

[54] **PROCEDE DE SECURISATION DE FLUX DE DONNEES ENTRE UN EQUIPEMENT DE COMMUNICATION ET UN TERMINAL DISTANT, EQUIPEMENT METTANT EN OEUVRE LE PROCEDE**

[72] KORBER, NICOLAS, FR

[72] NGUYEN DINH HIEN, MICHAEL THIEN BAO, FR

[73] SAGEMCOM BROADBAND SAS, FR

[86] (3100170)

[87] (3100170)

[22] 2020-11-20

[30] FR (1913458) 2019-11-29

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[11] **3,100,435**  
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) C07K 14/415 (2006.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **DROUGHT AND HEAT TOLERANCE IN PLANTS**

[54] **TOLERANCE A LA SECHERESSE ET A LA CHALEUR CHEZ LES PLANTES**

[72] CHRISTENSEN, CORY, US

[72] WANG, WUYI, US

[72] YANG, DENNIS, US

[73] CERES, INC., US

[86] (3100435)

[87] (3100435)

[22] 2009-02-13

[62] 2,713,208

[30] US (61/029,048) 2008-02-15

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[11] **3,103,488**  
[13] C

[51] **Int.Cl. H01M 10/12 (2006.01) H01M 4/02 (2006.01) H01M 4/14 (2006.01) H01M 4/62 (2006.01) H01M 4/66 (2006.01) H01M 4/68 (2006.01) H01M 10/20 (2006.01) H01M 10/42 (2006.01)**

[25] EN

[54] **BIPOLAR LEAD ACID BATTERY CELLS WITH INCREASED ENERGY DENSITY**

[54] **CELLULES DE BATTERIE AU PLOMB BIPOLAIRE AYANT UNE DENSITE D'ENERGIE ACCRUE**

[72] ESKRA, MICHAEL DAVID, US

[72] RALSTON, PAULA MARGARET, US

[72] JOHNSON, RICHARD THOMAS, US

[73] ESKRA TECHNICAL PRODUCTS, INC., US

[85] 2020-12-10

[86] 2019-06-24 (PCT/US2019/038661)

[87] (WO2020/005803)

[30] US (16/016,777) 2018-06-25

[11] **3,108,097**  
[13] C

[51] **Int.Cl. H04W 36/00 (2009.01) H04W 36/14 (2009.01) H04W 36/30 (2009.01)**

[25] EN

[54] **NETWORK SWITCHING METHOD, ELECTRONIC DEVICE, AND SYSTEM ON CHIP**

[54] **PROCEDE DE COMMUTATION DE RESEAU, DISPOSITIF ELECTRONIQUE ET SOUS-SYSTEME DE PUCE**

[72] ZHU, JIANJIAN, CN

[72] JADHAV, RAHUL ARVIND, IN

[72] YANG, NENG, CN

[72] CAO, ZHEN, CN

[72] WANG, FANZHAO, CN

[73] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2021-01-29

[86] 2019-04-06 (PCT/CN2019/081638)

[87] (WO2020/024609)

[30] CN (201810872929.1) 2018-08-02

[11] **3,108,846**  
[13] C

[51] **Int.Cl. C01B 21/26 (2006.01) C01B 21/28 (2006.01) F01K 23/00 (2006.01) F02C 6/00 (2006.01) F25B 17/00 (2006.01)**

[25] EN

[54] **HIGH ENERGY RECOVERY NITRIC ACID PROCESS USING LIQUID OXYGEN CONTAINING FLUID**

[54] **PROCEDE D'ACIDE NITRIQUE A HAUTE VALORISATION ENERGETIQUE UTILISANT UN FLUIDE CONTENANT DE L'OXYGENE LIQUIDE**

[72] WARNER, MAXIMILIAN, NO

[73] YARA INTERNATIONAL ASA, NO

[85] 2021-02-05

[86] 2019-08-14 (PCT/EP2019/071786)

[87] (WO2020/035521)

[30] US (62/764,976) 2018-08-17

[30] EP (18203076.7) 2018-10-29

[11] **3,104,023**  
[13] C

[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/744 (2015.01) A23K 10/16 (2016.01) A23L 33/135 (2016.01) A61P 35/00 (2006.01)**

[25] EN

[54] **NOVEL STRAIN HAVING PROPHYLACTIC OR THERAPEUTIC EFFECT ON CANCER**

[54] **NOUVELLE SOUCHE AYANT UN EFFET PROPHYLACTIQUE OU THERAPEUTIQUE SUR LE CANCER**

[72] PARK, HANSOO, KR

[72] PARK, SHINYOUNG, KR

[72] LEE, EUN JU, KR

[72] YEON, JAE-SUNG, KR

[72] JEON, HYE HEE, KR

[72] KIM, WONDUCK, KR

[72] CHUNG, JOO-YEON, KR

[72] JEONG, AREUM, KR

[72] HOUH, YOUN KYUNG, KR

[72] SOHN, JINYOUNG, KR

[72] KIM, YUN YEON, KR

[72] KIM, SANG GYUN, KR

[72] LEE, SURO, KR

[73] GENOME AND COMPANY, KR

[86] (3104023)

[87] (3104023)

[22] 2019-05-08

[62] 3,099,906

[30] KR (10-2018-0054195) 2018-05-11

[30] KR (10-2018-0133030) 2018-11-01

[11] **3,108,207**  
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 41/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS PROVIDING A CONFIGURABLE STAGED RATE INCREASE FUNCTION TO OPERATE HYDRAULIC FRACTURING UNITS**

[54] **SYSTEMES ET METHODES OFFRANT UNE FONCTION D'AUGMENTATION DE DEBIT PROGRESSIVE CONFIGURABLE POUR FAIRE FONCTIONNER DES UNITES DE FRACTURATION HYDRAULIQUE**

[72] YEUNG, TONY, US

[72] RODRIGUEZ-RAMON, RICARDO, US

[72] FOSTER, JOSEPH, US

[73] BJ ENERGY SOLUTIONS, LLC, US

[86] (3108207)

[87] (3108207)

[22] 2021-02-04

[30] US (62/705,328) 2020-06-22

[30] US (62/705,369) 2020-06-24

[30] US (62/705,649) 2020-07-09

[30] US (17/248,484) 2021-01-27

[30] US (17/248,485) 2021-01-27

[11] **3,108,921**  
[13] C

[51] **Int.Cl. G10L 19/26 (2013.01) G10L 21/0388 (2013.01) G10L 19/06 (2013.01)**

[25] EN

[54] **OPTIMIZED SCALE FACTOR FOR FREQUENCY BAND EXTENSION IN AN AUDIO FREQUENCY SIGNAL DECODER**

[54] **FACTEUR D'ECHELLE OPTIMISE POUR L'EXTENSION DE BANDE DE FREQUENCE DANS UN DECODEUR DE SIGNAUX AUDIOFREQUENCES**

[72] KANIEWSKA, MAGDALENA, BE

[72] RAGOT, STEPHANE, FR

[73] KONINKLIJKE PHILIPS N.V., NL

[86] (3108921)

[87] (3108921)

[22] 2014-07-04

[62] 2,917,795

[30] FR (1356909) 2013-07-12

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[11] **3,109,028**  
[13] C

[51] **Int.Cl. G10L 19/26 (2013.01) G10L 21/0388 (2013.01) G10L 19/06 (2013.01)**

[25] EN

[54] **OPTIMIZED SCALE FACTOR FOR FREQUENCY BAND EXTENSION IN AN AUDIO FREQUENCY SIGNAL DECODER**

[54] **FACTEUR D'ECHELLE OPTIMISE POUR L'EXTENSION DE BANDE DE FREQUENCE DANS UN DECODEUR DE SIGNAUX AUDIOFREQUENCES**

[72] KANIEWSKA, MAGDALENA, BE

[72] RAGOT, STEPHANE, BE

[73] KONINKLIJKE PHILIPS N.V., NL

[86] (3109028)

[87] (3109028)

[22] 2014-07-04

[62] 2,917,795

[30] FR (1356909) 2013-07-12

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[11] **3,110,470**  
[13] C

[51] **Int.Cl. H04L 1/08 (2006.01) B64D 45/08 (2006.01) B64F 1/20 (2006.01) G08G 5/02 (2006.01)**

[25] EN

[54] **CONTROL DEVICE, CONTROL DEVICE SYSTEM, RUNWAY FLASH LIGHTING DEVICE CONTROL SYSTEM, PROGRAM, AND RECORDING MEDIUM**

[54] **DISPOSITIF DE COMMANDE, SYSTEME DE DISPOSITIF DE COMMANDE, SYSTEME DE COMMANDE DE DISPOSITIF CLIGNOTANT DE PISTE, PROGRAMME ET SUPPORT D'ENREGISTREMENT**

[72] MIZOBE, NORIMASA, JP

[73] HOTALUX, LTD., JP

[85] 2021-02-23

[86] 2019-08-21 (PCT/JP2019/032557)

[87] (WO2020/084883)

[30] JP (2018-201403) 2018-10-26

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[11] **3,110,539**  
[13] C

[51] **Int.Cl. H02S 20/23 (2014.01) H02S 40/10 (2014.01) H02S 40/42 (2014.01) E04D 13/18 (2018.01)**

[25] EN

[54] **SOLAR PANEL ROOF SYSTEM WITH RAISED ACCESS PANELS**

[54] **SYSTEME DE PANNEAUX SOLAIRES DE TOIT AVEC PANNEAUX D'ACCES SOULEVES**

[72] BOSS, DANIEL E., US

[72] RAILKAR, SUDHIR, US

[72] KALLSEN, KENT J., US

[72] BOUDREAU, CORY, US

[72] NETT, DANIEL ROGER, US

[72] GENNRICH, DAVID J., US

[72] RODRIGUES, TOMMY F., US

[73] BUILDING MATERIALS INVESTMENT CORPORATION, US

[86] (3110539)

[87] (3110539)

[22] 2013-10-01

[62] 2,828,941

[30] US (61/708,234) 2012-10-01

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[11] **3,110,798**  
[13] C

[51] **Int.Cl. G02B 27/01 (2006.01)**

[25] EN

[54] **COVERT TARGET ACQUISITION WITH CODED SHORT-WAVE INFRARED GLASSES**

[54] **ACQUISITION DE CIBLE CACHEE A L'AIDE DE LUNETTES INFRAROUGES A ONDES COURTES CODEES**

[72] GROBECKER, MICHAEL, US

[73] ELBIT SYSTEMS OF AMERICA, LLC, US

[85] 2021-02-25

[86] 2019-08-26 (PCT/US2019/048152)

[87] (WO2020/112192)

[30] US (62/724,526) 2018-08-29

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[11] **3,115,570**  
[13] C

[51] **Int.Cl. C07C 311/08 (2006.01) C07C 201/12 (2006.01) C07C 205/45 (2006.01) C07C 303/40 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF A PDE4 INHIBITOR**

[54] **PROCEDE DE PREPARATION D'UN INHIBITEUR DE LA PDE4**

[72] FALCHI, ALESSANDRO, IT

[72] LUTERO, EMILIO, IT

[72] FERRARI, EMANUELE, IT

[72] PIVETTI, FAUSTO, IT

[72] BUSSOLATI, ROCCO, IT

[72] MARIANI, EDOARDO, IT

[72] VECCHI, ORSOLA, IT

[72] BAPPERT, ERHARD, IT

[72] VENTRICEI, CATERINA, IT

[73] CHIESI FARMACEUTICI S.P.A., IT

[86] (3115570)

[87] (3115570)

[22] 2014-10-17

[62] 2,928,242

[30] EP (13189784.5) 2013-10-22

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[11] **3,116,441**  
[13] C

[51] **Int.Cl. C08L 67/04 (2006.01) C08K 3/00 (2018.01)**

[25] EN

[54] **POLYGLYCOLIDE COPOLYMER COMPOSITION AND PREPARATION THEREOF**

[54] **COMPOSITION DE COPOLYMERE DE POLYGLYCOLIDE ET PREPARATION CORRESPONDANTE**

[72] ZHANG, XINZHOU, CN

[73] PUJING CHEMICAL INDUSTRY CO., LTD, CN

[85] 2021-04-14

[86] 2018-10-29 (PCT/CN2018/112462)

[87] (WO2020/087215)

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[11] **3,117,108**  
[13] C

[51] **Int.Cl. A61K 8/23 (2006.01) A61K 8/02 (2006.01) A61K 8/46 (2006.01) A61Q 19/10 (2006.01) C11D 1/37 (2006.01) C11D 17/00 (2006.01)**

[25] EN

[54] **FOAMABLE SOLID CLEANSER COMPRISING MAGNESIUM SULFATE**

[54] **NETTOYANT SOLIDE MOUSSANT COMPRENANT DE SULFATE DE MAGNESIUM**

[72] HARPER, DONALD L., US  
[72] MARTINEZ, MARCEE, US  
[72] SINGH, SHAILENDRA, US  
[72] GEONNOTTI, ANTHONY R., III, US  
[72] JOSEPH, THOMAS C., US  
[72] SADAVRATI, HIMA, US  
[72] ZHUK, ALIAKSANDR, US  
[73] JOHNSON & JOHNSON CONSUMER INC., US

[85] 2021-04-20  
[86] 2019-10-30 (PCT/IB2019/059316)  
[87] (WO2020/089812)  
[30] US (62/754,885) 2018-11-02

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[11] **3,119,018**  
[13] C

[51] **Int.Cl. G06N 10/40 (2022.01) B82Y 10/00 (2011.01)**

[25] EN

[54] **MIXED COUPLING BETWEEN A QUBIT AND RESONATOR**

[54] **COUPLAGE MIXTE ENTRE UN BIT QUANTIQUE ET UN RESONATEUR**

[72] NAAMAN, OFER, US  
[72] KEANE, ZACHARY KYLE, US  
[72] FERGUSON, DAVID GEORGE, US  
[72] STRAND, JOEL D., US  
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US

[86] (3119018)  
[87] (3119018)  
[22] 2015-09-28  
[62] 2,973,060  
[30] US (14/532,638) 2014-11-04

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[11] **3,119,147**  
[13] C

[51] **Int.Cl. F01N 3/035 (2006.01) F01N 13/00 (2010.01) F01N 13/18 (2010.01) B01D 53/94 (2006.01) F01N 3/021 (2006.01) F01N 3/10 (2006.01) F01N 3/20 (2006.01)**

[25] EN

[54] **MOVABLE EMISSION CONTROL SYSTEM FOR AUXILIARY DIESEL ENGINES**

[54] **SYSTEME DE COMMANDE D'EMISSION MOBILE DESTINE A DES MOTEURS DIESEL AUXILIAIRES**

[72] TONSICH, NICHOLAS G., US  
[73] CLEAN AIR-ENGINEERING - MARITIME, INC., US

[85] 2021-05-06  
[86] 2019-05-08 (PCT/US2019/031300)  
[87] (WO2019/226348)  
[30] US (15/990,344) 2018-05-25

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[11] **3,119,551**  
[13] C

[51] **Int.Cl. E04H 15/50 (2006.01) E04H 15/46 (2006.01)**

[25] EN

[54] **A COLLAPSIBLE CANOPY WITH A CENTRAL LOCK AND REINFORCEMENT BARS**

[54] **ABRI PROVISOIRE PLIABLE DOTE D'UN VERROU CENTRAL ET DE BARRES DE RENFORCEMENT**

[72] YANG, SHENGYONG, CN  
[72] BIAN, JING, CN  
[73] ZHEJIANG HUIGUAN LEISURE PRODUCTS CO., LTD., CN

[85] 2021-05-11  
[86] 2019-11-08 (PCT/CN2019/116580)  
[87] (WO2020/098567)  
[30] US (16/188,273) 2018-11-12

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[11] **3,119,576**  
[13] C

[51] **Int.Cl. B25J 11/00 (2006.01) A61F 2/60 (2006.01) A61F 2/70 (2006.01)**

[25] EN

[54] **LOAD REDUCTION DEVICE, CONTROL DEVICE, LOAD REDUCTION METHOD, AND STORAGE MEDIUM FOR STORING PROGRAM**

[54] **DISPOSITIF DE REDUCTION DE CHARGE, DISPOSITIF DE COMMANDE, PROCEDE DE REDUCTION DE CHARGE ET SUPPORT D'INFORMATIONS DESTINE AU STOCKAGE D'UN PROGRAMME**

[72] OOKOBA, TADASHI, JP  
[73] NEC CORPORATION, JP

[85] 2021-05-11  
[86] 2019-11-08 (PCT/JP2019/043890)  
[87] (WO2020/100742)  
[30] JP (2018-212803) 2018-11-13

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[11] **3,123,821**  
[13] C

[51] **Int.Cl. A61K 8/42 (2006.01) A61K 8/34 (2006.01) A61K 8/41 (2006.01) A61K 8/44 (2006.01) A61K 8/49 (2006.01) A61K 8/55 (2006.01) A61Q 19/02 (2006.01)**

[25] EN

[54] **MELANOGENESIS INHIBITOR COMPRISING D-PANTOTHENYL ALCOHOL, AND SKIN-WHITENING COSMETIC CONTAINING SAME MELANOGENESIS INHIBITOR**

[54] **INHIBITEUR DE MELANOGENESE COMPRENANT DE D-PANTOTHENOL, ET PRODUIT DE BEAUTE DE BLANCHISSEMENT DE LA PEAU CONTENANT CET INHIBITEUR DE MELANOGENESE**

[72] KONDO, CHIHIRO, JP  
[72] SASSA, SHOKO, JP  
[72] SAITOH, YUKO, JP  
[72] MORI, YASUHITO, JP  
[72] YOKOYAMA, KOUJI, JP  
[73] POLA CHEMICAL INDUSTRIES, INC., JP

[86] (3123821)  
[87] (3123821)  
[22] 2015-04-02  
[62] 3,064,416  
[30] JP (2014-076693) 2014-04-03

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[11] **3,130,774**  
[13] C

- [51] **Int.Cl. E05B 17/10 (2006.01) H05B 47/11 (2020.01) H05B 47/13 (2020.01) E05B 7/00 (2006.01) G08B 13/19 (2006.01) G08B 19/00 (2006.01)**
- [25] EN
- [54] **INTERNET OF THINGS LOCK MODULE**
- [54] **MODULE DE VERROUILLAGE DE L'INTERNET DES OBJETS**
- [72] KINCAID, RYAN C., US
- [72] EICKHOFF, BRIAN C., US
- [73] SCHLAGE LOCK COMPANY LLC, US
- [85] 2021-08-18
- [86] 2020-02-18 (PCT/US2020/018633)
- [87] (WO2020/172160)
- [30] US (16/278,429) 2019-02-18

[11] **3,131,223**  
[13] C

- [51] **Int.Cl. C07K 16/40 (2006.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
- [25] EN
- [54] **COMPOSITIONS FOR INHIBITING MASP-2 DEPENDENT COMPLEMENT ACTIVATION**
- [54] **COMPOSITIONS POUR INHIBER L'ACTIVATION DE COMPLEMENT DEPENDANT DE MASP-2**
- [72] DUDLER, THOMAS, US
- [72] GOMBOTZ, WAYNE R., US
- [72] PARENT, JAMES B., US
- [72] TEDFORD, CLARK E., US
- [72] KAVLIE, ANITA, NO
- [72] HAGEMANN, URS B., NO
- [72] REIERSEN, HERALD, NO
- [72] KIPRIJANOV, SERGEJ, NO
- [73] OMEROS CORPORATION, US
- [86] (3131223)
- [87] (3131223)
- [22] 2012-05-04
- [62] 3,025,762
- [30] US (61/482,567) 2011-05-04

[11] **3,133,079**  
[13] C

- [51] **Int.Cl. H04N 19/00 (2014.01)**
- [25] EN
- [54] **PICTURES WITH MIXED NAL UNIT TYPES**
- [54] **IMAGES A TYPES D'UNITES NAL MIXTES**
- [72] WANG, YE-KUI, US
- [72] HENDRY, FNU, US
- [73] HUAWEI TECHNOLOGIES CO., LTD., CN
- [85] 2021-09-09
- [86] 2020-03-11 (PCT/US2020/022136)
- [87] (WO2020/185922)
- [30] US (62/816,749) 2019-03-11
- [30] US (62/832,132) 2019-04-10

[11] **3,133,691**  
[13] C

- [51] **Int.Cl. A41B 9/02 (2006.01) A41B 9/12 (2006.01) A61F 13/49 (2006.01) A61F 13/505 (2006.01)**
- [25] EN
- [54] **ABSORBENT GARMENT AND METHOD OF MANUFACTURE THEREOF**
- [54] **VETEMENT ABSORBANT ET METHODE DE FABRICATION**
- [72] YIP, SUET HING, XX
- [72] AU, FUNG YEE DEBBY, XX
- [73] MAST INDUSTRIES (FAR EAST) LIMITED, CN
- [86] (3133691)
- [87] (3133691)
- [22] 2021-10-08
- [30] US (17/221,326) 2021-04-02
- [30] US (63/110,554) 2020-11-06

[11] **3,134,033**  
[13] C

- [51] **Int.Cl. B67D 7/02 (2010.01) G01N 1/00 (2006.01) G01N 35/10 (2006.01)**
- [25] EN
- [54] **FITMENT DEVICES, REAGENT CARTRIDGES, AND METHODS THEREOF**
- [54] **DISPOSITIFS D'ACCESSOIRE, CARTOUCHES DE REACTIF ET PROCEDES ASSOCIES**
- [72] PUDDUCK, CHRISTIAN, US
- [73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
- [85] 2021-09-17
- [86] 2020-03-12 (PCT/US2020/022329)
- [87] (WO2020/190633)
- [30] US (62/821,626) 2019-03-21

[11] **3,134,441**  
[13] C

- [51] **Int.Cl. B60L 53/66 (2019.01)**
- [25] EN
- [54] **PORTABLE STORAGE BATTERY, SERVER DEVICE AND ASSOCIATED OPERATING METHODS**
- [54] **BATTERIE PORTATIVE, SYSTEME SERVEUR ET PROCEDE DE FONCTIONNEMENT ASSOCIE**
- [72] THANNHUBER, MARKUS, DE
- [72] ANDORFER, THOMAS, DE
- [73] EINHELL GERMANY AG, DE
- [85] 2021-09-21
- [86] 2020-04-30 (PCT/EP2020/061991)
- [87] (WO2020/225076)
- [30] DE (10 2019 111 636.8) 2019-05-06

[11] **3,135,214**  
[13] C

- [51] **Int.Cl. H04N 19/96 (2014.01)**
- [25] EN
- [54] **TECHNIQUES AND APPARATUS FOR GENERALIZED TRISOUP GEOMETRY CODING**
- [54] **TECHNIQUES ET APPAREIL DE CODAGE DE GEOMETRIE TRISOUP GENERALISEE**
- [72] VOSOUGHI, ARASH, US
- [72] YEA, SEHOON, US
- [72] WENGER, STEPHAN, US
- [72] LIU, SHAN, US
- [73] TENCENT AMERICA LLC, US
- [85] 2021-09-27
- [86] 2020-09-01 (PCT/US2020/048913)
- [87] (WO2021/046038)
- [30] US (62/895,339) 2019-09-03
- [30] US (17/004,616) 2020-08-27

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[11] **3,135,294**  
[13] C

[51] **Int.Cl. B66C 13/46 (2006.01) B66C 13/48 (2006.01) B66C 13/56 (2006.01) B66C 23/00 (2006.01) B66C 23/58 (2006.01)**

[25] EN  
[54] **CRANE HAVING A CRANE CONTROLLER**  
[54] **GRUE COMPRENANT UNE COMMANDE DE GRUE**  
[72] HOFFMANN, CHRISTOPH, AT  
[72] DEIMER, THOMAS, AT  
[72] VIERLINGER, HARALD, AT  
[73] PALFINGER AG, AT  
[85] 2021-09-28  
[86] 2020-03-24 (PCT/AT2020/060127)  
[87] (WO2020/191421)  
[30] AT (GM 50057/2019) 2019-03-28

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[11] **3,135,411**  
[13] C

[51] **Int.Cl. H04N 19/119 (2014.01) H04N 19/17 (2014.01) H04N 19/44 (2014.01) H04N 19/70 (2014.01) H04N 19/86 (2014.01)**

[25] EN  
[54] **METHOD FOR SIGNALING SUBPICTURE IDENTIFIER**  
[54] **PROCEDE DE SIGNALISATION D'IDENTIFIANT DE SOUS-IMAGE**  
[72] CHOI, BYEONGDOO, US  
[72] WENGER, STEPHAN, US  
[72] LIU, SHAN, US  
[73] TENCENT AMERICA LLC, US  
[85] 2021-09-28  
[86] 2020-09-23 (PCT/US2020/052199)  
[87] (WO2021/061759)  
[30] US (62/906,079) 2019-09-25  
[30] US (17/026,966) 2020-09-21

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[11] **3,136,072**  
[13] C

[51] **Int.Cl. B66D 1/74 (2006.01) A62B 1/06 (2006.01) B66D 1/36 (2006.01) B66D 3/04 (2006.01) B66D 3/20 (2006.01)**

[25] EN  
[54] **A PORTABLE POWER-DRIVEN SYSTEM**  
[54] **SYSTEME MOTORISE PORTABLE**  
[72] BOULLIAT, CLAUDE, FR  
[72] EITERJORD, JIMMY, SE  
[73] SKYLOTEC GMBH, DE  
[85] 2021-10-04  
[86] 2020-04-09 (PCT/SE2020/050373)  
[87] (WO2020/209783)  
[30] SE (1950443-0) 2019-04-09

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[11] **3,136,839**  
[13] C

[51] **Int.Cl. G01N 29/036 (2006.01) G01N 17/00 (2006.01) G01N 17/04 (2006.01) G01N 29/12 (2006.01) G01N 29/22 (2006.01) G01N 29/24 (2006.01) G01N 29/30 (2006.01) G01N 29/44 (2006.01)**

[25] EN  
[54] **SENSOR ARRANGEMENT AND METHOD FOR MEASURING FOULING AND/OR EROSION, AND MACHINE MONITORING FOULING AND/OR EROSION**  
[54] **AGENCEMENT DE CAPTEUR ET PROCEDE DE MESURE D'ENCRASSEMENT ET/OU D'EROSION, ET MACHINE DE SURVEILLANCE D'ENCRASSEMENT ET/OU D'EROSION**  
[72] MOCHI, GIANNI, IT  
[72] TRALLORI, PAOLO, IT  
[72] TEMPESTINI, MASSIMILIANO, IT  
[72] STRINGANO, GIUSEPPE, IT  
[72] BETTI, ALESSANDRO, IT  
[73] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT  
[85] 2021-10-14  
[86] 2020-04-20 (PCT/EP2020/025179)  
[87] (WO2020/216469)  
[30] IT (102019000006274) 2019-04-23

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[11] **3,138,171**  
[13] C

[51] **Int.Cl. F24F 6/02 (2006.01)**

[25] EN  
[54] **AIR HUMIDIFIER**  
[54] **HUMIDIFICATEUR D'AIR**  
[72] PANCHENKO, VASILII VLADIMIROVICH, RU  
[72] NIZAMOV, EMIL ABDULKHAEVICH, RU  
[73] INDOOR ENVIRONMENT EXPERT AG, CH  
[85] 2021-10-26  
[86] 2020-04-10 (PCT/RU2020/050072)  
[87] (WO2020/218947)  
[30] RU (2019112806) 2019-04-26

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[11] **3,138,328**  
[13] C

[51] **Int.Cl. C02F 1/40 (2006.01) B01D 17/00 (2006.01) C02F 1/00 (2006.01)**

[25] EN  
[54] **SYSTEM AND METHOD OF SCUM COLLECTION IN WASTEWATER TREATMENT SYSTEMS**  
[54] **SYSTEME ET METHODE DE COLLECTE DU CHAPEAU DANS LES SYSTEMES DE TRAITEMENT DES EAUX USEES**  
[72] REID, TERENCE K., US  
[72] SMITH, DAVID, US  
[73] AQUA-AEROBIC SYSTEMS, INC., US  
[86] (3138328)  
[87] (3138328)  
[22] 2021-11-09  
[30] US (17/096,005) 2020-11-12

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[11] **3,138,558**  
[13] C

[51] **Int.Cl. A61K 8/9794 (2017.01) A61K 8/34 (2006.01) A61Q 11/00 (2006.01)**

[25] EN  
[54] **TEETH CLEANING COMPOSITION COMPRISING BANANA EXTRACT**  
[54] **COMPOSITION DE NETTOYAGE DES DENTS COMPRENANT UN EXTRAIT DE BANANE**  
[72] VESPER, CAROLINE, US  
[72] MORETTI, ALYSHA, US  
[73] CHURCH & DWIGHT CO., INC., US  
[86] (3138558)  
[87] (3138558)  
[22] 2021-11-10  
[30] US (63/114,199) 2020-11-16

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[11] **3,141,200**  
[13] C

[51] **Int.Cl. F04D 25/06 (2006.01) F04D 17/12 (2006.01) F04D 25/02 (2006.01) F04D 29/054 (2006.01) F04D 29/42 (2006.01) F04D 29/62 (2006.01)**

[25] EN

[54] **INTEGRATED MOTOR-COMPRESSOR WITH A STAND-ALONE MOTOR AND BUNDLE**

[54] **MOTEUR-COMPRESSEUR INTEGRE A UN MOTEUR AUTONOME ET FAISCEAU**

[72] VIDALENC, YOANN, FR

[72] DEFOY, BENJAMIN, FR

[72] ALBAN, THOMAS, FR

[72] GAUDEZ, PASCAL, FR

[72] DENTAN, JULIEN, FR

[73] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT

[85] 2021-11-18

[86] 2020-05-28 (PCT/EP2020/025249)

[87] (WO2020/239265)

[30] FR (FR1905787) 2019-05-29

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[11] **3,141,696**  
[13] C

[51] **Int.Cl. H04L 67/568 (2022.01) H04L 67/12 (2022.01)**

[25] EN

[54] **ACTOR-BASED DATA PROCESSING**

[54] **TRAITEMENT DE DONNEES FONDE SUR LES ACTEURS**

[72] CREASEY, WAYNE, US

[72] KRING, THOMAS, US

[73] ITRON, INC., US

[86] (3141696)

[87] (3141696)

[22] 2021-12-09

[30] US (17/179,315) 2021-02-18

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[11] **3,142,835**  
[13] C

[51] **Int.Cl. A61F 2/90 (2013.01) A61F 2/07 (2013.01) A61F 2/848 (2013.01) A61F 2/856 (2013.01) A61F 2/04 (2013.01)**

[25] EN

[54] **COVERED ENDOPROSTHESIS WITH IMPROVED BRANCH ACCESS**

[54] **ENDOPROTHESE COUVERTE A ACCES RAMIFIE AMELIORE**

[72] FOLAN, MARTYN G., IE

[73] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2021-12-03

[86] 2020-06-16 (PCT/US2020/037873)

[87] (WO2020/257155)

[30] US (62/862,599) 2019-06-17

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[11] **3,143,500**  
[13] C

[51] **Int.Cl. B05B 1/30 (2006.01) A01M 7/00 (2006.01) B05B 12/08 (2006.01) F16K 47/04 (2006.01) G01F 1/36 (2006.01)**

[25] EN

[54] **PRESSURE-BASED FLOW METER FOR A SPRAY NOZZLE**

[54] **DEBITMETRE BASE SUR LA PRESSION POUR BUSE DE PULVERISATION**

[72] BREMER, MARSHALL T., US

[72] WOOD, DANIEL R., JR., US

[73] INTELLIGENT AGRICULTURAL SOLUTIONS LLC, US

[85] 2021-12-14

[86] 2020-06-19 (PCT/US2020/038700)

[87] (WO2020/257628)

[30] US (62/864,042) 2019-06-20

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[11] **3,143,896**  
[13] C

[51] **Int.Cl. H02K 41/03 (2006.01)**

[25] EN

[54] **ASSEMBLY OF STATOR MODULES FOR A PLANAR DRIVE SYSTEM**

[54] **AGENCEMENT DE MODULES DE STATOR POUR UN SYSTEME D'ENTRAINEMENT PLANAIRE**

[72] PRUESSMEIER, UWE, DE

[73] BECKHOFF AUTOMATION GMBH, DE

[85] 2021-12-16

[86] 2020-06-26 (PCT/EP2020/068000)

[87] (WO2020/260566)

[30] DE (10 2019 117 431.7) 2019-06-27

[30] DE (10 2019 118 635.8) 2019-07-10

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[11] **3,145,404**  
[13] C

[51] **Int.Cl. A47J 37/07 (2006.01) F24B 3/00 (2006.01) F24C 1/16 (2021.01) F24C 3/14 (2021.01)**

[25] EN

[54] **PORTABLE BBQ GRILL**

[54] **BARBECUE-GRIL PORTATIF**

[72] THIBAUT, GERARD, CA

[72] MCMULLIN, DAVID ANDREW, CA

[72] DICKE, WILLIAM, CA

[73] TIBOGRILL INC, CA

[85] 2021-12-29

[86] 2021-05-18 (PCT/CA2021/000044)

[87] (WO2021/232137)

[30] US (63/026,838) 2020-05-19

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[11] **3,145,816**  
[13] C

[51] **Int.Cl. A01N 43/40 (2006.01) A01N 25/00 (2006.01) A01P 1/00 (2006.01) C09D 5/14 (2006.01)**

[25] EN

[54] **DISINFECTANT COMPOSITION COMPRISING BISPYRIDINIUM ALKANE**

[54] **COMPOSITION DE DESINFECTANT COMPRENANT UN ALCANE DE BISPYRIDINIUM**

[72] HAYWARD, ADAM SIMON, GB

[72] PEREZ-PRAT VINUESA, EVA MARIA, GB

[73] THE PROCTER & GAMBLE COMPANY, US

[85] 2022-01-04

[86] 2020-07-17 (PCT/US2020/070289)

[87] (WO2021/022290)

[30] EP (19188867.6) 2019-07-29

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[11] **3,147,202**  
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 8/00 (2006.01) A61K 9/10 (2006.01) A61K 9/14 (2006.01) A61K 31/00 (2006.01)**

[25] EN

[54] **METHOD OF ENHANCING THE EFFICACY AND STABILITY OF INGREDIENTS IN SUSPENSIONS**

[54] **PROCEDE D'AMELIORATION DE L'EFFICACITE ET DE LA STABILITE D'INGREDIENTS DANS DES SUSPENSIONS**

[72] SARKAS, HARRY W., US

[73] NANOPHASE TECHNOLOGIES CORPORATION, US

[85] 2022-02-07

[86] 2020-08-07 (PCT/US2020/045479)

[87] (WO2021/030212)

[30] US (16/537,337) 2019-08-09

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[11] **3,153,587**  
[13] C

[51] **Int.Cl. H02J 9/00 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **BACKUP POWER SUPPLY DEVICE AND CHARGE/DISCHARGE CONTROL METHOD**

[54] **DISPOSITIF D'ALIMENTATION DE SECOURS ET METHODE DE CONTROLE DE CHARGE/DECHARGE**

[72] SAITO, YOSUKE, JP

[72] HIWATASHI, KAZUHIRO, JP

[73] FDK CORPORATION, JP

[86] (3153587)

[87] (3153587)

[22] 2022-03-29

[30] JP (2021-075632) 2021-04-28

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[11] **3,154,604**  
[13] C

[51] **Int.Cl. C08G 69/26 (2006.01) C08K 7/14 (2006.01) C08L 23/08 (2006.01) C08L 35/02 (2006.01) C08L 77/02 (2006.01) C08L 77/06 (2006.01)**

[25] EN

[54] **POLYAMIDE COMPOSITIONS AND ARTICLES MADE THEREFROM**

[54] **COMPOSITIONS A BASE DE POLYAMIDE ET ARTICLES FABRIQUES A PARTIR DE CELLES-CI**

[72] LIM, CHEE SERN, US

[72] IVERSON, ISAAC, US

[72] BUZINKAI, JOHN, US

[73] INVISTA TEXTILES (U.K.) LIMITED, GB

[85] 2022-04-12

[86] 2020-10-16 (PCT/IB2020/059765)

[87] (WO2021/079244)

[30] US (62/925,524) 2019-10-24

[30] US (63/013,884) 2020-04-22

[30] US (63/071,715) 2020-08-28

[30] US (63/071,728) 2020-08-28

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[11] **3,155,244**  
[13] C

[51] **Int.Cl. H04M 1/19 (2006.01)**

[25] EN

[54] **VOICE ENHANCEMENT IN PRESENCE OF NOISE**

[54] **AJUSTEMENT DE LA VOIX EN PRESENCE DE BRUIT**

[72] HAMILTON, JAMES, US

[72] KRIPP, KEITH, US

[73] HARRIS GLOBAL COMMUNICATIONS, INC., US

[86] (3155244)

[87] (3155244)

[22] 2022-04-05

[30] US (17/230,718) 2021-04-14

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[11] **3,157,341**  
[13] C

[51] **Int.Cl. A61B 17/72 (2006.01) A61B 17/16 (2006.01) A61B 17/17 (2006.01) A61B 17/92 (2006.01)**

[25] EN

[54] **INTRAMEDULLARY FIXATION NAIL AND METHOD OF USE**

[54] **CLOU DE FIXATION INTRAMEDULLAIRE ET SON PROCEDE D'UTILISATION**

[72] ORBAY, JORGE, US

[72] GALINDO, RAUL, US

[73] SKELETAL DYNAMICS, INC., US

[85] 2022-04-06

[86] 2020-10-22 (PCT/US2020/056799)

[87] (WO2021/081168)

[30] US (62/926,156) 2019-10-25

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[11] **3,158,997**  
[13] C

[51] **Int.Cl. B41M 5/41 (2006.01) B41M 5/42 (2006.01) B41M 5/44 (2006.01) B41M 5/50 (2006.01)**

[25] EN

[54] **WATER-DISPERSIBLE DIRECT THERMAL OR INKJET PRINTABLE MEDIA**

[54] **SUPPORT IMPRIMABLE A JET D'ENCRE OU DIRECT THERMIQUE HYDRODISPERSABLE**

[72] FISHER, MARK R., US

[73] APPVION, LLC, US

[85] 2022-05-19

[86] 2020-11-20 (PCT/US2020/061584)

[87] (WO2021/102312)

[30] US (62/939,418) 2019-11-22



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[11] **3,159,017**  
[13] C

[51] **Int.Cl. G08B 17/10 (2006.01)**  
[25] EN  
[54] **INCREASING THE SUCTION POWER IN AN ASPIRATING SMOKE DETECTOR (ASD) TO SHORTEN THE TRANSPORT TIME FROM A DETECTED MINIMUM SIGNAL LEVEL VALUE WITHOUT THE OUTPUT OF AN INTERRUPTION SIGNAL**  
[54] **ACCROISSEMENT DE LA PUISSANCE D'ASPIRATION D'UN DETECTEUR DE FUMEE ASPIRANT POUR REDUIRE LE TEMPS DE TRANSPORT D'UNE VALEUR DE NIVEAU DE SIGNAL MINIMALE DETECTEE SANS LA SORTIE D'UN SIGNAL INTERROMPU**  
[72] FISCHER, MARTIN, CH  
[73] SIEMENS SCHWEIZ AG, CH  
[86] (3159017)  
[87] (3159017)  
[22] 2022-05-16  
[30] EP (21174278.8) 2021-05-18  
[30] EP (22159123.3) 2022-02-28

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[11] **3,161,737**  
[13] C

[51] **Int.Cl. A01B 59/043 (2006.01) A01B 59/04 (2006.01) A01B 63/10 (2006.01) A01B 63/14 (2006.01) A01B 63/22 (2006.01) A01B 63/24 (2006.01) A01B 63/32 (2006.01)**  
[25] EN  
[54] **THREE-POINT HITCH WITH ATTACHABLE IMPLEMENT-ACTUATORS**  
[54] **ATTELAGE EN TROIS POINTS AVEC ACTIONNEURS D'OUTIL A FIXER**  
[72] MOLLICK, PETER J., US  
[73] MOLLICK, PETER J., US  
[85] 2022-05-15  
[86] 2020-11-30 (PCT/US2020/062562)  
[87] (WO2021/113165)  
[30] US (62/974,404) 2019-12-05  
[30] US (62/974,561) 2019-12-10  
[30] US (62/995,485) 2020-01-29

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[11] **3,162,338**  
[13] C

[51] **Int.Cl. A61K 6/833 (2020.01) A61C 5/77 (2017.01) A61C 13/00 (2006.01) A61C 13/083 (2006.01) A61C 13/09 (2006.01)**  
[25] EN  
[54] **METHOD FOR THE PRODUCTION OF A BLANK, BLANK AND A DENTAL RESTORATION**  
[54] **METHODE POUR LA PRODUCTION D'UNE DECOUPE, DECOUPE ET RESTAURATION DENTAIRE**  
[72] VOELKL, LOTHAR, DE  
[72] FECHER, STEFAN, DE  
[72] VOLLMANN, MARKUS, DE  
[72] WIESNER, CARSTEN, DE  
[73] DENTSPLY SIRONA INC., US  
[73] DEGUDENT GMBH, DE  
[86] (3162338)  
[87] (3162338)  
[22] 2017-10-18  
[62] 3,038,908  
[30] DE (10 2016 119 934.6) 2016-10-19

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[11] **3,162,512**  
[13] C

[51] **Int.Cl. G01R 31/382 (2019.01) G06F 1/16 (2006.01) G06F 1/26 (2006.01) H01M 10/46 (2006.01)**  
[25] EN  
[54] **SMARTPHONE AND ADD-ON DEVICE POWER DELIVERY SYSTEM**  
[54] **TELEPHONE INTELLIGENT ET SYSTEME DE DISTRIBUTION D'ENERGIE DE DISPOSITIF COMPLEMENTAIRE**  
[72] SOFFER, AVIV, IL  
[73] HIGH SEC LABS LTD., IL  
[85] 2022-06-20  
[86] 2021-02-02 (PCT/IL2021/050116)  
[87] (WO2021/165952)  
[30] IL (272832) 2020-02-20

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[11] **3,162,579**  
[13] C

[51] **Int.Cl. G02B 27/00 (2006.01) G02B 6/10 (2006.01) G02B 27/01 (2006.01) G02B 27/10 (2006.01)**  
[25] EN  
[54] **LIGHT-GUIDE OPTICAL ELEMENT EMPLOYING COATED PARTIAL REFLECTORS, AND LIGHT-GUIDE OPTICAL ELEMENT HAVING REDUCED LIGHT SCATTERING**  
[54] **ELEMENT OPTIQUE DE GUIDAGE DE LUMIERE UTILISANT DES REFLECTEURS PARTIELS REVETUS COMPLEMENTAIRES, ET ELEMENT OPTIQUE DE GUIDAGE DE LUMIERE AYANT UNE DIFFUSION DE LUMIERE REDUITE**  
[72] DANZIGER, YOCHAY, IL  
[72] SHARLIN, ELAD, IL  
[73] LUMUS LTD, IL  
[85] 2022-05-20  
[86] 2020-12-03 (PCT/IL2020/051249)  
[87] (WO2021/111447)  
[30] US (62/943,867) 2019-12-05

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[11] **3,164,180**  
[13] C

[51] **Int.Cl. G06Q 40/04 (2012.01)**  
[25] EN  
[54] **OPERATIONAL CIRCUIT OF VIRTUAL CURRENCY DATA PROCESSING DEVICE, AND VIRTUAL CURRENCY DATA PROCESSING DEVICE**  
[54] **CIRCUIT FONCTIONNEL DE DISPOSITIF DE TRAITEMENT DE DONNEES DE MONNAIE VIRTUELLE, ET DISPOSITIF DE TRAITEMENT DE DONNEES DE MONNAIE VIRTUELLE**  
[72] GAO, YANG, CN  
[72] WU, YUEFENG, CN  
[72] NING, HONGYAN, CN  
[73] SHENZHEN MICROBT ELECTRONICS TECHNOLOGY CO., LTD., CN  
[85] 2022-07-07  
[86] 2021-04-12 (PCT/CN2021/086503)  
[87] (WO2021/249004)  
[30] CN (202021079769.4) 2020-06-12

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[11] **3,164,867**  
[13] C

[51] **Int.Cl. G09G 3/34 (2006.01) G02F 1/167 (2019.01)**  
[25] EN  
[54] **DRIVERS PROVIDING DC-BALANCED REFRESH SEQUENCES FOR COLOR ELECTROPHORETIC DISPLAYS**  
[54] **PILOTES FOURNISSANT DES SEQUENCES DE RAFFRAICHISSEMENT EQUILIBREES EN COURANT CONTINU POUR AFFICHAGES ELECTROPHORETIQUES EN COULEUR**  
[72] TELFER, STEPHEN J., US  
[72] HOOGEBOOM, CHRISTOPHER L., US  
[72] CROUNSE, KENNETH R., US  
[73] E INK CORPORATION, US  
[86] (3164867)  
[87] (3164867)  
[22] 2018-03-09  
[62] 3,049,994  
[30] US (15/454,276) 2017-03-09  
[30] US (62/509,512) 2017-05-22

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[11] **3,166,691**  
[13] C

[51] **Int.Cl. H04B 1/12 (2006.01) H04L 1/20 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD IMPLEMENTING EXCISION CANCELLATION TECHNOLOGY**  
[54] **SYSTEME ET METHODE DE MISE EN OEUVRE D'UNE TECHNOLOGIE D'ANNULATION D'EXCISION**  
[72] SCHELEGEL, CHRISTIAN B., US  
[72] GIBSON, L. ANDREW, US  
[72] LANDON, DAVID G., US  
[72] KIMANI, ALEXANDER, US  
[73] L3HARRIS TECHNOLOGIES, INC., US  
[86] (3166691)  
[87] (3166691)  
[22] 2022-07-04  
[30] US (17/372,207) 2021-07-09

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[11] **3,168,244**  
[13] C

[51] **Int.Cl. E21B 17/03 (2006.01) E21B 17/04 (2006.01) F16L 25/14 (2006.01)**  
[25] EN  
[54] **TOOL JOINT CLAMP**  
[54] **COLLIER DE JOINT D'OUTIL**  
[72] SLACK, MAURICE WILLIAM, CA  
[72] YUNG, VICTOR, CA  
[73] NOETIC TECHNOLOGIES INC., CA  
[85] 2022-08-16  
[86] 2021-04-05 (PCT/CA2021/000029)  
[87] (3168244)  
[30] US (63/003,969) 2020-04-02  
[30] US (63/049,625) 2020-07-08

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[11] **3,168,322**  
[13] C

[51] **Int.Cl. G10L 19/00 (2013.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR COMPRESSING AND DECOMPRESSING A HIGHER ORDER AMBISONICS REPRESENTATION FOR A SOUND FIELD**  
[54] **PROCEDE ET APPAREIL POUR COMPRESSION ET DECOMPRESSION DE REPRESENTATION D'AMBIPHONIE D'ORDRE SUPERIEUR (HOA) POUR CHAMP SONORE**  
[72] KRUEGER, ALEXANDER, DE  
[72] KORDON, SVEN, DE  
[72] BOEHM, JOHANNES, DE  
[73] DOLBY INTERNATIONAL AB, IE  
[86] (3168322)  
[87] (3168322)  
[22] 2013-12-04  
[62] 3,125,246  
[30] EP (12306569.0) 2012-12-12

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[11] **3,168,327**  
[13] C

[51] **Int.Cl. A63F 9/02 (2006.01) A63G 31/00 (2006.01) A63G 33/00 (2006.01) F41A 33/02 (2006.01) F41J 5/02 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR DETECTING DATA CORRESPONDING TO FLUID STREAM**  
[54] **SYSTEMES ET PROCEDES PERMETTANT DE DETECTER DES DONNEES CORRESPONDANT A UN COURANT DE FLUIDE**  
[72] JEROMIN, AARON CHANDLER, US  
[72] KRAUTHAMER, AKIVA MEIR, US  
[72] HERTZLER, ELAM KEVIN, US  
[72] RAIJ, ANDREW BRIAN, US  
[72] LUGO, VICTOR ALEXANDER, US  
[73] UNIVERSAL CITY STUDIOS LLC, US  
[85] 2022-08-17  
[86] 2021-03-01 (PCT/US2021/020323)  
[87] (WO2021/178322)  
[30] US (62/983,998) 2020-03-02  
[30] US (16/827,336) 2020-03-23

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[11] **3,169,259**  
[13] C

[51] **Int.Cl. E06B 9/42 (2006.01) E06B 9/322 (2006.01) E06B 9/56 (2006.01)**  
[25] EN  
[54] **AXIALLY DRIVEN WAND FOR A WINDOW BLIND**  
[54] **BAGUETTE ENTRAINEE SUR LE PLAN AXIAL POUR UN STORE DE FENETRE**  
[72] MAROCCO, NORBERT, CA  
[73] MAXXMAR INC., CA  
[86] (3169259)  
[87] (3169259)  
[22] 2018-02-23  
[62] 2,996,362  
[30] US (62/576,437) 2017-10-24  
[30] CA (2,983,527) 2017-10-24

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30 janvier 2024**

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[11] **3,173,269**  
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) A61B 10/00 (2006.01) A61F 13/42 (2006.01) A61F 13/51 (2006.01)**

[25] EN

[54] **DISPOSABLE HYGIENIC ARTICLE WITH MEANS FOR DIAGNOSTIC TESTING**

[54] **ARTICLE HYGIENIQUE JETABLE PRESENTANT UN MOYEN DE TEST DE DIAGNOSTIC**

[72] NELSON, CHRISTOPHER, US

[73] MEDLINE INDUSTRIES, LP, US

[86] (3173269)

[87] (3173269)

[22] 2014-12-04

[62] 2,932,260

[30] US (14/097,955) 2013-12-05

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[11] **3,174,472**  
[13] C

[51] **Int.Cl. A01M 1/02 (2006.01) G06Q 10/04 (2023.01) G06Q 50/02 (2012.01) A01M 1/10 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PEST PRESSURE HEAT MAPS**

[54] **SYSTEMES ET PROCEDES DE CARTES THERMIQUES DE PRESSION PARASITAIRE**

[72] SINGH, SUKHVINDER, US

[72] STERLING, SARA CATHERINE, US

[72] BARRATT, SIMON BRIDGE, US

[72] D'HYVER DE LAS DESES, PAUL, US

[72] LIN, WANDI, US

[72] PUTTERMAN, ROSS JOSEPH, US

[72] STUART-HOFF, IAN ANTHONY, US

[73] FMC CORPORATION, US

[85] 2022-09-01

[86] 2021-03-04 (PCT/US2021/020805)

[87] (WO2021/178622)

[30] US (62/984,881) 2020-03-04

[30] US (62/984,885) 2020-03-04

[30] US (17/081,263) 2020-10-27

[30] US (17/081,361) 2020-10-27

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[11] **3,183,112**  
[13] C

[51] **Int.Cl. H01R 25/14 (2006.01) H01B 5/02 (2006.01) H01B 17/18 (2006.01) H01R 25/16 (2006.01) H02G 5/00 (2006.01) H05K 1/14 (2006.01)**

[25] EN

[54] **BUSBAR INSULATOR INTERFACE AND BUSBAR ASSEMBLY**

[54] **INTERFACE D'ISOLATEUR DE BARRE OMNIBUS ET ENSEMBLE BARRE OMNIBUS**

[72] CZEBINIAK, DAVID J., US

[73] BAE SYSTEMS CONTROLS INC., US

[85] 2022-11-29

[86] 2021-05-25 (PCT/US2021/033953)

[87] (WO2021/242708)

[30] US (16/886,909) 2020-05-29

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[11] **3,184,863**  
[13] C

[51] **Int.Cl. B09B 3/00 (2022.01) C22B 7/00 (2006.01) C22B 15/00 (2006.01) C22B 23/00 (2006.01) C22B 23/02 (2006.01)**

[25] EN

[54] **METHOD FOR RECOVERING VALUABLE METAL**

[54] **PROCEDE DE RECUPERATION DE METAUX DE VALEUR**

[72] YAMASHITA, YU, JP

[73] SUMITOMO METAL MINING CO., LTD., JP

[85] 2023-01-03

[86] 2021-06-21 (PCT/JP2021/023472)

[87] (WO2022/009657)

[30] JP (2020-118452) 2020-07-09

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[11] **3,192,839**  
[13] C

[51] **Int.Cl. B65D 51/28 (2006.01)**

[25] EN

[54] **CONTAINER-CLOSURE SYSTEM**

[54] **SYSTEME DE FERMETURE DE RECIPIENT**

[72] TARRANT, PHILIP ANDREW, US

[73] ELC MANAGEMENT LLC, US

[85] 2023-03-15

[86] 2021-09-14 (PCT/US2021/050346)

[87] (WO2022/060753)

[30] US (17/021,545) 2020-09-15

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[11] **3,193,798**  
[13] C

[51] **Int.Cl. G06F 3/14 (2006.01) H04N 21/41 (2011.01) H04W 12/50 (2021.01) H04W 12/63 (2021.01) G06K 19/06 (2006.01)**

[25] EN

[54] **SYNCHRONIZING A USER DEVICE AND A KIOSK INTERFACE USING A VISUAL CODE, AND APPLICATIONS THEREOF**

[54] **SYNCHRONISATION D'UN DISPOSITIF UTILISATEUR ET D'UNE INTERFACE DE KIOSQUE A L'AIDE D'UN CODE VISUEL, ET SES APPLICATIONS**

[72] BRODERICK, JOHN, US

[72] SCHURAN, BRAD, US

[72] SCOTT, JEFFREY LEE, US

[73] INFINITE PERIPHERALS, INC., US

[85] 2023-03-03

[86] 2021-09-02 (PCT/US2021/048791)

[87] (WO2022/051451)

[30] US (17/011,458) 2020-09-03

[30] US (17/197,764) 2021-03-10

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[11] **3,194,385**  
[13] C

[51] **Int.Cl. H04Q 3/64 (2006.01)**

[25] EN

[54] **TECHNIQUES FOR ESTIMATING EXPECTED PERFORMANCE IN A TASK ASSIGNMENT SYSTEM**

[54] **TECHNIQUES D'ESTIMATION DU RENDEMENT ATTENDU DANS UN SYSTEME D'ATTRIBUTION DE TACHES**

[72] CHISHTI, ZIA, US

[72] KAN, ITTAL, US

[72] KHATRI, VIKASH, US

[73] AFINITI, LTD., BM

[86] (3194385)

[87] (3194385)

[22] 2018-04-05

[62] 3,159,738

[30] US (15/645,277) 2017-07-10

[30] US (15/648,788) 2017-07-13

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January 30, 2024**

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[11] **3,199,062**  
[13] C

[51] **Int.Cl. H04N 23/951 (2023.01) G02B 27/01 (2006.01) G03B 37/04 (2021.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR CONSTRUCTING REAL-GEOGRAPHIC-SPACE SCENE IN REAL TIME**

[54] **METHODE ET APPAREIL POUR CONSTRUIRE UNE SCENE DANS UN ESPACE GEOGRAPHIQUE REEL EN TEMPS REEL**

[72] MAO, SHANJUN, CN  
[72] FAN, YINGBO, CN  
[72] LI, BEN, CN  
[72] CHEN, HUAZHOU, CN  
[72] LI, XINCHAO, CN  
[73] PEKING UNIVERSITY, CN  
[73] BEIJING LONGRUAN TECHNOLOGIES INC., CN

[86] (3199062)  
[87] (3199062)  
[22] 2023-05-08  
[30] CN (CN202210499659.0) 2022-05-09

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[11] **3,207,971**  
[13] C

[51] **Int.Cl. B01D 46/02 (2006.01) B01D 46/74 (2022.01) B01D 46/04 (2006.01)**

[25] EN

[54] **INDUSTRIAL FILTER ASSEMBLY ENHANCEMENT**

[54] **AMELIORATION D'ENSEMBLE FILTRE INDUSTRIEL**

[72] BASHAM, DANIEL E., US  
[72] BROUSE, STEPHEN M., US  
[73] W. L. GORE & ASSOCIATES, INC., US

[86] (3207971)  
[87] (3207971)  
[22] 2023-07-31  
[30] US (63/394,488) 2022-08-02  
[30] US (18/119,938) 2023-03-10

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[11] **3,208,113**  
[13] C

[51] **Int.Cl. B65D 83/08 (2006.01) A61J 1/00 (2023.01)**

[25] EN

[54] **PACKAGING BAG AND PATCH PACKAGING PRODUCT**

[54] **SAC D'EMBALLAGE ET PRODUIT D'EMBALLAGE DE TIMBRE TRANSDERMIQUE**

[72] TSURUSHIMA, KEIICHIRO, JP  
[72] YAMASOTO, SHINJI, JP  
[72] TATEISHI, TETSURO, JP  
[73] HISAMITSU PHARMACEUTICAL CO., INC., JP

[85] 2023-07-11  
[86] 2022-02-14 (PCT/JP2022/005670)  
[87] (WO2022/181375)  
[30] JP (2021-027234) 2021-02-24

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[11] **3,209,058**  
[13] C

[51] **Int.Cl. A23L 17/60 (2016.01)**

[25] EN

[54] **SEAWEED EXTRACT**

[54] **EXTRAIT D'ALGUES**

[72] RUBESA, TINO, NL  
[72] CHAN, KOK-KIN, NL  
[72] VERMANDEL, EVERT, NL  
[72] MATTHEE, JOHANNES MARIA BAPTIST, NL

[72] ZANTINGE, ANNE, NL  
[73] UNILEVER IP HOLDINGS B.V., NL

[85] 2023-08-18  
[86] 2022-02-17 (PCT/EP2022/053868)  
[87] (WO2022/175355)  
[30] EP (21158186.3) 2021-02-19

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## Demandes canadiennes mises à la disponibilité du public

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[21] **3,161,891**  
[13] A1  
[51] **Int.Cl. A23L 7/10 (2016.01) A23L 7/196 (2016.01)**  
[25] EN  
[54] **15-MINUTE JOLLOF RICE**  
[54] **RIZ WOLOF PRET EN QUINZE MINUTES**  
[72] OKUNOLA, OPEOLUWA, CA  
[71] OKUNOLA, OPEOLUWA, CA  
[22] 2022-07-19  
[41] 2024-01-19

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[21] **3,167,587**  
[13] A1  
[51] **Int.Cl. C10C 3/02 (2006.01) C10C 3/08 (2006.01)**  
[25] EN  
[54] **USE OF ASPHALTENE DISPERSANTS FOR TREATING HYDROCARBON FEEDSTOCKS SUBJECTED TO PARTIAL UPGRADING**  
[54] **UTILISATION DE DISPERSANTS D-ASPALTENES POUR LE TRAITEMENT DE CHARGES D-ALIMENTATION D-HYDROCARBURES SOUMISES A UNE VALORISATION PARTIELLE**  
[72] MAHARAJH, EDWARD, CA  
[72] REMESAT, DARIUS, CA  
[71] SUNCOR ENERGY INC., CA  
[22] 2022-07-14  
[41] 2024-01-14

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[21] **3,167,604**  
[13] A1  
[51] **Int.Cl. H01H 9/54 (2006.01) H01H 35/00 (2006.01)**  
[25] EN  
[54] **WIRELESS DEADMAN SYSTEM FOR REMOTE CONTROL OF SANDBLASTING POTS**  
[54] **SYSTEME D-HOMME-MORT SANS FIL POUR TELECOMMANDE A DISTANCE DE CHAUDIERE DE SABLAGE**  
[72] HALIBURTON, SEAN, CA  
[71] HALIBURTON, SEAN, CA  
[22] 2022-07-14  
[41] 2024-01-14

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[21] **3,167,607**  
[13] A1  
[51] **Int.Cl. A61H 9/00 (2006.01)**  
[25] EN  
[54] **AQUA MOTION THERAPY SYSTEM**  
[54] **SYSTEME DE THERAPIE AQUA MOTION**  
[72] GIACONA, MAURIZIO, CA  
[71] GIACONA, MAURIZIO, CA  
[22] 2022-07-14  
[41] 2024-01-14

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[21] **3,167,670**  
[13] A1  
[51] **Int.Cl. A47B 67/00 (2006.01) A47B 81/00 (2006.01) A47K 17/00 (2006.01)**  
[25] EN  
[54] **SHOWER AND BATH CABINET**  
[54] **CABINE DE DOUCHE ET DE BAIN**  
[72] LAURENT, DEBRA LYNN, CA  
[72] KELLER, STEPHEN CRAIG, CA  
[71] LAURENT, DEBRA LYNN, CA  
[71] KELLER, STEPHEN CRAIG, CA  
[22] 2022-07-14  
[41] 2024-01-14

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[21] **3,167,677**  
[13] A1  
[51] **Int.Cl. G21C 19/02 (2006.01)**  
[25] EN  
[54] **IMPROVEMENTS IN OR RELATING TO FUELLING MACHINE INPUT DRIVES**  
[54] **AMELIORATIONS LIEES A DES MOTEURS D'ENTREE DE MACHINE DE CHARGEMENT**  
[72] FOX, MICHAEL, CA  
[72] HANDLEY, TIM, CA  
[72] MCCORD, ROSS, CA  
[72] DITSCHUN, ART, CA  
[71] FOX, MICHAEL, CA  
[71] HANDLEY, TIM, CA  
[71] MCCORD, ROSS, CA  
[71] DITSCHUN, ART, CA  
[22] 2022-07-14  
[41] 2024-01-14

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[21] **3,167,796**  
[13] A1  
[25] EN  
[54] **SOCIAL NETWORKING METHOD WITH GLOBAL SCHEDULING CAPABILITIES**  
[54] **METHODE DE RESEAUTAGE SOCIAL AVEC FONCTIONNALITES DE PLANIFICATION GLOBALE**  
[72] HUNG, HSIN-YA, CN  
[71] HUNG, HSIN-YA, CN  
[22] 2022-07-15  
[41] 2024-01-15

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[21] **3,167,901**  
[13] A1

[51] **Int.Cl. A47B 96/20 (2006.01) A47B 13/00 (2006.01) A47C 3/00 (2006.01) A47C 4/08 (2006.01) A47C 5/12 (2006.01) A47C 19/00 (2006.01)**

[25] EN

[54] **CORRUGATED PLASTIC SHEET FURNITURE DESIGN AND ASSEMBLY SYSTEM**

[54] **SYSTEME DE CONCEPTION ET D-ASSEMBLAGE DE MEUBLES AVEC FEUILLES DE PLASTIQUE ONDULE**

[72] SWAROOP, BYLAHALLY VISWESWARAIAH, CA

[71] SWAROOP, BYLAHALLY VISWESWARAIAH, CA

[22] 2022-07-15  
[41] 2024-01-15

[21] **3,168,019**  
[13] A1

[51] **Int.Cl. H02G 3/02 (2006.01) F21S 8/04 (2006.01) F21S 8/06 (2006.01) F21V 21/02 (2006.01) F21V 23/06 (2006.01) H02G 3/08 (2006.01)**

[25] EN

[54] **MOUNTING AND JUNCTION BOX**

[54] **BOITE DE MONTAGE ET DE JONCTION**

[72] FOX, SAMUEL, US

[72] FOX, TOMMY, US

[71] FOX HARDWOOD LUMBER COMPANY, L.L.C., US

[22] 2022-07-15  
[41] 2024-01-15

[21] **3,168,034**  
[13] A1

[51] **Int.Cl. G06Q 10/10 (2023.01) G06Q 50/18 (2012.01) G06N 20/00 (2019.01)**

[25] EN

[54] **MACHINE LEARNING-ENABLED SYSTEM FOR ANALYZING IMMIGRATION PETITIONS**

[54] **SYSTEME D-ANALYSE DES DEMANDES D-IMMIGRATION BASE SUR L-APPRENTISSAGE AUTOMATIQUE**

[72] RAO, DURGAPRASAD N., US

[72] PRABHAKAR, ADITYA, US

[71] SOFTWARE PUNDITS PVT. LTD., XX

[22] 2022-07-15  
[41] 2024-01-15

[21] **3,168,053**  
[13] A1

[51] **Int.Cl. F16M 13/02 (2006.01)**

[25] EN

[54] **A MAGNETIC MOUNTING APPARATUS AND METHOD FOR INSTALLING CAMERAS**

[54] **CORREIL DE MONTAGE MAGNETIQUE ET METHODE D-INSTALLATION DE CAMERAS**

[72] HOANG, JACK, CA

[71] I3 INTERNATIONAL INC., CA

[22] 2022-07-15  
[41] 2024-01-15

[21] **3,168,072**  
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 11/30 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTOMATICALLY PROVIDING A SECOND RESOURCE TYPE TO REPLACE OR OFFSET A FIRST RESOURCE TYPE**

[54] **SYSTEME ET METHODE POUR LA FOURNITURE AUTOMATIQUE D-UN DEUXIEME TYPE DE RESSOURCE POUR REMPLACER OU COMPENSER UN PREMIER TYPE DE RESSOURCE**

[72] COLLIS, SARA, CA

[72] VENDITTI, ALEXANDER CHRISTIAN RAPHAEL, CA

[72] BHARUCHA, DINSHAW, CA

[72] REILLY, DAVID, CA

[72] ILKHANIZADEH, GORAN, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2022-07-18  
[41] 2024-01-18

[21] **3,168,124**  
[13] A1

[51] **Int.Cl. B65D 50/00 (2006.01) A47G 29/00 (2006.01) B65D 43/22 (2006.01)**

[25] EN

[54] **STORAGE BOX FOR STORING AN ARTICLE**

[54] **BOITIER DE RANGEMENT POUR RANGER UN ARTICLE**

[72] SALEMI, MICHAEL E., US

[71] THE PACKAGING COMPANY, US

[22] 2022-07-18  
[41] 2024-01-18

[21] **3,168,237**  
[13] A1

[51] **Int.Cl. E02F 3/815 (2006.01) E01H 5/06 (2006.01) E02F 3/40 (2006.01) E02F 3/80 (2006.01)**

[25] EN

[54] **BACK-DRAG BUCKET ACCESSORY**

[54] **ACCESSOIRE POUR TIRER UN GODET VERS L-ARRIERE**

[72] BOURGAULT, GERARD F., CA

[72] PUNK, KEVIN, CA

[71] BOURGAULT INDUSTRIES LTD., CA

[22] 2022-07-19  
[41] 2024-01-19

[21] **3,168,313**  
[13] A1

[51] **Int.Cl. F23G 5/44 (2006.01) F23G 5/14 (2006.01) F23G 5/20 (2006.01) F23G 5/40 (2006.01) F23G 5/46 (2006.01)**

[25] EN

[54] **LAG TECHNOLOGIES**

[54] **TECHNOLOGIES D-AGREGATION DE LIENS**

[72] GIACONA, MAURIZIO, CA

[72] SCARANGELLA, ANGELO, CA

[71] GIACONA, MAURIZIO, CA

[71] SCARANGELLA, ANGELO, CA

[22] 2022-07-20  
[41] 2024-01-20

[21] **3,168,325**  
[13] A1

[51] **Int.Cl. A61H 9/00 (2006.01)**

[25] EN

[54] **AQUA MOTION THERAPY SYSTEM**

[54] **SYSTEME DE THERAPIE AQUA MOTION**

[72] GIACONA, MAURIZIO, CA

[71] GIACONA, MAURIZIO, CA

[22] 2022-07-20  
[41] 2024-01-20

**Demandes canadiennes mises à la disponibilité du public**  
**14 janvier 2024 au 20 janvier 2024**

[21] **3,168,339**  
 [13] A1

[51] **Int.Cl. G06F 16/904 (2019.01) G06F 3/0481 (2022.01) G06F 16/906 (2019.01) G06F 3/04842 (2022.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR GENERATING A GRAPHICAL USER INTERFACE TO TRACK, ANALYZE AND INTERPRET A BIG DATA DATASET**

[54] **SYSTEME ET METHODE POUR GENERER UNE INTERFACE UTILISATEUR GRAPHIQUE POUR SUIVRE, ANALYSER ET INTERPRETER UN ENSEMBLE DE MEGADONNEES**

[72] SOIN, GURPREET SINGH, CA

[72] AGHA, MURTAZA ALLY, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2022-07-20

[41] 2024-01-20

[21] **3,168,340**  
 [13] A1

[51] **Int.Cl. E04B 1/92 (2006.01) G12B 17/02 (2006.01) G01R 33/04 (2006.01) G01R 33/07 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MITIGATION OF INTRUSIVE ELECTROMAGNETIC FIELDS**

[54] **SYSTEME ET METHODE D-ATTENUATION DES CHAMPS ELECTROMAGNETIQUES INTRUSIFS**

[72] MORAVA, JAN, CA

[71] MORAVA, JAN, CA

[22] 2022-07-20

[41] 2024-01-20

[30] US (17/813,776) 2022-07-20

[21] **3,168,361**  
 [13] A1

[51] **Int.Cl. A63B 22/02 (2006.01)**

[25] EN

[54] **BOUNCE TREADMILL**

[54] **TAPIS ROULANT A REBOND**

[72] TSAI, SHIH-YING, CN

[71] FU AN WELLNESS TECHNOLOGY, INC., TW

[22] 2022-07-20

[41] 2024-01-20

[21] **3,168,372**  
 [13] A1

[51] **Int.Cl. G06F 16/11 (2019.01) G06F 16/17 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DATA MOVEMENT**

[54] **SYSTEME ET METHODE DE TRANSFERT DE DONNEES**

[72] CHUNG, SHERMAN, CA

[72] HOSSAIN, UPAL SAYEED, CA

[72] AGUIAR, MORGAN, CA

[72] VELAMAKANNI, LAXMI, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2022-07-20

[41] 2024-01-20

[21] **3,168,376**  
 [13] A1

[51] **Int.Cl. A63B 23/02 (2006.01) A61H 1/00 (2006.01) A63B 21/00 (2006.01)**

[25] EN

[54] **DEVICE WITH ANTI-GRAVITY AND SUSPENSION**

[54] **DISPOSITIF COMPRENANT UNE SUSPENSION ANTI-GRAVITE**

[72] TSAI, SHIH-YING, TW

[71] FU AN WELLNESS TECHNOLOGY, INC., TW

[22] 2022-07-20

[41] 2024-01-20

[21] **3,168,379**  
 [13] A1

[51] **Int.Cl. A63B 23/08 (2006.01) A61H 1/02 (2006.01)**

[25] EN

[54] **ANKLE RESTORE 360**

[54] **APPAREIL D-EXERCICE POUR LES CHEVILLES ANKLE RESTORE 360**

[72] VON KRAUSE, LAWRENCE, CA

[71] VON KRAUSE, LAWRENCE, CA

[22] 2022-07-20

[41] 2024-01-20

[21] **3,169,144**  
 [13] A1

[51] **Int.Cl. H04N 21/8355 (2011.01) H04N 5/222 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR CONTENT RECORDING AND STREAMING**

[54] **METHODE ET DISPOSITIF POUR L-ENREGISTREMENT ET LA DIFFUSION DE CONTENU**

[72] XING, DAVID, US

[71] NORTHWEST INSTRUMENT INC., US

[22] 2022-07-27

[41] 2024-01-18

[30] US (17/867,144) 2022-07-18

[21] **3,169,208**  
 [13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/40 (2020.01) A24D 3/18 (2006.01) A24F 7/00 (2006.01) H04R 3/00 (2006.01) H05B 1/02 (2006.01)**

[25] EN

[54] **AUDIO PLAYING VAPORIZER DEVICE**

[54] **APPAREIL VAPORISATEUR AUDIO**

[72] MCMULLIN, MATTHEW, CA

[71] MCMULLIN, MATTHEW, CA

[22] 2022-07-29

[41] 2024-01-15

[30] US (17/865,615) 2022-07-15

[21] **3,169,976**  
 [13] A1

[51] **Int.Cl. H04L 67/1097 (2022.01) H04L 67/5682 (2022.01)**

[25] EN

[54] **SYSTEM, METHOD, AND DEVICE FOR UPLOADING DATA FROM PREMISES TO REMOTE COMPUTING ENVIRONMENTS**

[54] **SYSTEME, METHODE ET DISPOSITIF POUR TELEVERSER DES DONNEES DE LIEUX A DES ENVIRONNEMENTS INFORMATIQUES ELOIGNES**

[72] YAM, ANDREW KAI MING, CA

[72] IONESCU, ADRIAN ARIEL, CA

[72] HOSSAIN, UPAL SAYEED, CA

[72] KNAPP, GEORGE, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2022-08-08

[41] 2024-01-20

[30] US (17/813,804) 2022-07-20

**Canadian Applications Open to Public Inspection  
January 14, 2024 to January 20, 2024**

[21] **3,169,986**  
[13] A1

[51] **Int.Cl. G06F 3/06 (2006.01) G06F 16/908 (2019.01)**  
[25] EN  
[54] **SYSTEM, METHOD, AND DEVICE FOR INGESTING DATA INTO REMOTE COMPUTING ENVIRONNEMENTS**  
[54] **SYSTEME, METHODE ET DISPOSITIF POUR IMPORTER DES DONNEES DANS DES ENVIRONNEMENTS INFORMATIQUES ELOIGNES**  
[72] YAM, ANDREW KAI MING, CA  
[72] IONESCU, ADRIAN ARIEL, CA  
[72] HOSSAIN, UPAL SAYEED, CA  
[72] KNAPP, GEORGE, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2022-08-08  
[41] 2024-01-20  
[30] US (17/813,786) 2022-07-20

[21] **3,170,000**  
[13] A1

[51] **Int.Cl. H04L 67/06 (2022.01) H04L 67/1017 (2022.01) H04L 67/1097 (2022.01)**  
[25] EN  
[54] **SYSTEM, METHOD, AND DEVICE FOR UPLOADING DATA FROM PREMISES TO REMOTE COMPUTING ENVIRONNEMENTS**  
[54] **SYSTEME, METHODE ET DISPOSITIF POUR TELEVERSER DES DONNEES DE LIEUX A DES ENVIRONNEMENTS INFORMATIQUES ELOIGNES**  
[72] YAM, ANDREW KAI MING, CA  
[72] IONESCU, ADRIAN ARIEL, CA  
[72] HOSSAIN, UPAL SAYEED, CA  
[72] KNAPP, GEORGE, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2022-08-08  
[41] 2024-01-20  
[30] US (17/813,764) 2022-07-20

[21] **3,170,176**  
[13] A1

[51] **Int.Cl. E04H 6/34 (2006.01) B60S 13/02 (2006.01) E04H 6/40 (2006.01) E04H 6/42 (2006.01) G05B 19/05 (2006.01) G01B 21/02 (2006.01)**  
[25] EN  
[54] **A MANAGEMENT SYSTEM FOR MANAGING THE STORAGE, PARKING, OR DELIVERY OF RECREATIONAL VEHICLES**  
[54] **SYSTEME POUR GERER L~ENTREPOSAGE, LE STATIONNEMENT OU LA LIVRAISON DE VEHICULES RECREATIFS**  
[72] SIMPER, JED, US  
[71] SIMPER, JED, US  
[22] 2022-08-11  
[41] 2024-01-14  
[30] US (17/864,482) 2022-07-14

[21] **3,176,350**  
[13] A1

[51] **Int.Cl. F21S 4/10 (2016.01) H05B 47/10 (2020.01) H05B 47/12 (2020.01) H05B 47/165 (2020.01) F21V 21/28 (2006.01) F21V 5/00 (2018.01)**  
[25] EN  
[54] **LIGHT STRING**  
[54] **BANDE DE LUMIERES**  
[72] ZHANG, CHENG-CHUN, US  
[71] GEMMY INDUSTRIES CORP., US  
[22] 2022-09-28  
[41] 2024-01-19  
[30] US (63/390,541) 2022-07-19

[21] **3,188,694**  
[13] A1

[51] **Int.Cl. C08J 3/22 (2006.01) C08J 3/12 (2006.01) C08K 3/36 (2006.01) C08K 7/26 (2006.01) C08L 67/02 (2006.01)**  
[25] EN  
[54] **SILICA AEROGEL-CONTAINING POLYESTER MASTERBATCH, METHOD FOR MAKING THE SAME AND SILICA AEROGEL-CONTAINING POLYESTER FIBER MADE FROM THE SAME**  
[54] **MELANGE-MAITRE DE POLYESTER CONTENANT UN AEROGEL DE SILICE, METHODE DE FABRICATION ET FIBRE DE POLYESTER CONTENANT UN AEROGEL DE SILICE AINSI PRODUITE**  
[72] CHEN, YU-SHUN, TW  
[72] TSAI, HSIAO-CHI, TW  
[72] CHENG, CHUN-PING, TW  
[72] LIN, CHIEN-MING, TW  
[72] HUANG, HSU-YEH, TW  
[71] KCI MASTER INDUSTRIES CORP., TW  
[22] 2023-02-02  
[41] 2024-01-15  
[30] TW (111126655) 2022-07-15

[21] **3,194,183**  
[13] A1

[51] **Int.Cl. G06F 40/174 (2020.01) G06F 16/906 (2019.01) G06F 16/93 (2019.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **MACHINE LEARNING MODEL BASED ELECTRONIC DOCUMENT COMPLETION**  
[54] **ACHEVEMENT DE DOCUMENTS ELECTRONIQUES A L~AIDE D~UN MODELE D~APPRENTISSAGE AUTOMATIQUE**  
[72] SHARMA, HIMANSHU, US  
[72] WANG, PENG FEI, US  
[72] LIM-FAT, PASCAL, US  
[72] BARBOZA BRAZ, ROBERTO, US  
[72] TARNOVSKAYA, TATIANA, US  
[71] INTUIT INC., US  
[22] 2023-03-27  
[41] 2024-01-19  
[30] US (17/867,952) 2022-07-19



**Demandes canadiennes mises à la disponibilité du public**  
**14 janvier 2024 au 20 janvier 2024**

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[21] **3,201,344**  
[13] A1

[51] **Int.Cl. E01C 11/22 (2006.01) E01C 11/00 (2006.01)**  
[25] EN  
[54] **EDGE RESTRAINT SYSTEM FOR PAVERS**  
[54] **SYSTEME DE RETENUE DES BORDS POUR EPANDEUSES**  
[72] ORTON, DAVID S., US  
[71] ORTON, DAVID S., US  
[22] 2023-05-31  
[41] 2024-01-20  
[30] US (63368944) 2022-07-20  
[30] US (18048162) 2022-10-20

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[21] **3,202,386**  
[13] A1

[51] **Int.Cl. C23C 24/04 (2006.01)**  
[25] EN  
[54] **COLD SPRAY PROCESS**  
[54] **PROCEDE UTILISANT LE LIQUIDE REFROIDISSEUR**  
[72] BARTH, ROBERT A., US  
[72] SIOPIIS, MATTHEW J., US  
[72] MANES, ENRICO, US  
[71] RATIER-FIGEAC SAS, FR  
[22] 2023-06-07  
[41] 2024-01-20  
[30] EP (22306076.5) 2022-07-20

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[21] **3,203,012**  
[13] A1

[51] **Int.Cl. E06B 9/42 (2006.01) A47G 5/02 (2006.01) E06B 9/322 (2006.01) E06B 9/44 (2006.01)**  
[25] EN  
[54] **SYNCHRONIZING MULTIPLE ROLLER SHUTTERS**  
[54] **SYNCHRONISEURS DE MULTIPLES VOLETS A ROULEAU**  
[72] CHOU, TSER WEN, US  
[71] CHOU, TSER WEN, US  
[71] CHOU, MASON, US  
[22] 2023-06-13  
[41] 2024-01-18  
[30] US (17/938,909) 2022-09-06  
[30] TW (111207693) 2022-07-18

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[21] **3,203,062**  
[13] A1

[51] **Int.Cl. E02F 3/36 (2006.01) E02F 3/40 (2006.01) E02F 3/96 (2006.01)**  
[25] EN  
[54] **QUICK COUPLER AND QUICK COUPLER SYSTEM WITH SUCH A QUICK COUPLER**  
[54] **RACCORD RAPIDE ET SYSTEME DE RACCORD RAPIDE COMPRENANT UN TEL RACCORD RAPIDE**  
[72] SCHAUER, STEFAN, DE  
[72] KOLLMANN, MICHAEL, DE  
[71] OILQUICK DEUTSCHLAND KG, DE  
[22] 2023-06-13  
[41] 2024-01-19  
[30] DE (10 2022 117 974.5) 2022-07-19

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[21] **3,203,611**  
[13] A1

[51] **Int.Cl. G07C 15/00 (2006.01) A63F 3/06 (2006.01) G06K 7/10 (2006.01) G07F 9/00 (2006.01) G07F 11/02 (2006.01) G07F 11/16 (2006.01) G07F 11/68 (2006.01)**  
[25] EN  
[54] **LOTTERY TICKET VENDING MACHINE**  
[54] **DISTRIBUTEUR AUTOMATIQUE DE BILLETS DE LOTERIE**  
[72] TOPALIAN, MEDINA MARIE, US  
[72] BUCCI, PAUL A., US  
[72] CONSTANT, HENRY, US  
[71] IGT GLOBAL SOLUTIONS CORPORATION, US  
[22] 2023-06-15  
[41] 2024-01-14  
[30] US (17/812570) 2022-07-14

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[21] **3,203,615**  
[13] A1

[51] **Int.Cl. A63F 3/06 (2006.01) A63F 3/04 (2006.01)**  
[25] EN  
[54] **LOTTERY TICKETS HAVING CONNECTED SYMBOL SET PATH FEATURE**  
[54] **BILLETS DE LOTERIE AYANT UNE CARACTERISTIQUE DE CHEMIN DEFINI DE JEU DE SYMBOLES CONNECTES**  
[72] MENDOZA, MARC, US  
[72] STARK, DAVID, US  
[72] BARBEE, JOY, US  
[72] HACKER, KARY, US  
[71] IGT GLOBAL SOLUTIONS CORPORATION, US  
[22] 2023-06-15  
[41] 2024-01-14  
[30] US (17/812,603) 2022-07-14

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[21] **3,203,622**  
[13] A1

[51] **Int.Cl. B42D 25/27 (2014.01) A63F 3/06 (2006.01)**  
[25] EN  
[54] **LOTTERY TICKETS HAVING MULTIPLE COMBINATIONS OF BOARDS AND PLAYER SYMBOL SETS**  
[54] **BILLETS DE LOTERIE COMPORTANT DES COMBINAISONS MULTIPLES DE PLATEAUX ET DE JEUX DE SYMBOLES DE JOUEURS**  
[72] MENDOZA, MARC, US  
[72] STARK, DAVID, US  
[72] BARBEE, JOY, US  
[72] HACKER, KARY, US  
[71] IGT GLOBAL SOLUTIONS CORPORATION, US  
[22] 2023-06-15  
[41] 2024-01-14  
[30] US (17/812628) 2022-07-14

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**Canadian Applications Open to Public Inspection  
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[21] **3,204,052**  
[13] A1

[51] **Int.Cl. H01S 5/187 (2006.01) B82Y 20/00 (2011.01) H01S 5/065 (2006.01) H01S 5/10 (2021.01) H01S 5/20 (2006.01)**

[25] EN

[54] **THREE-MIRROR-CAVITY SINGLE LONGITUDINAL MODE SEMICONDUCTOR MEMBRANE EXTERNAL CAVITY SURFACE EMITTING LASER**

[54] **LASER A EMISSION PAR LA SURFACE D~UNE CAVITE EXTERNE DE MEMBRANE A SEMICONDUCTEUR EN MODE LONGITUDINAL SIMPLE COMPRENANT UNE CAVITE A TROIS MIROIRS**

[72] WOLLENZIN, JORN, DE  
[72] DUHN, JOHANNES, DE  
[72] VERGES, MICHAEL, DE  
[72] KIRCHNER, MATT, DE  
[71] THORLABS GMBH, DE  
[22] 2023-06-20  
[41] 2024-01-15  
[30] US (63/389,809) 2022-07-15

[21] **3,204,214**  
[13] A1

[51] **Int.Cl. B66F 3/32 (2006.01) B66F 3/24 (2006.01)**

[25] EN

[54] **WORK IMPLEMENT WITH HEADER LIFT CONTROL**

[54] **APPAREIL DE TRAVAIL AVEC COMMANDE DE LEVAGE DE TABLIER**

[72] DEOTARSE, SUMIT V., IN  
[72] VADNERE, MOHAN A., IN  
[72] GUPTA, SUBHANSHU, IN  
[72] USASZ, MITCHELL R., US  
[71] DEERE & COMPANY, US  
[22] 2023-06-20  
[41] 2024-01-20  
[30] US (17/813,616) 2022-07-20

[21] **3,205,218**  
[13] A1

[25] EN

[54] **STATIC SESSION MULTIPATH DETECTION**

[54] **DETECTION MULTIVOIE EN SESSION STATIQUE**

[72] MIN, YANLING, US  
[72] SCHIPPER, BRIAN, US  
[72] CAO, XIAO, US  
[71] HONEYWELL INTERNATIONAL INC., US  
[22] 2023-06-30  
[41] 2024-01-19  
[30] US (17/868542) 2022-07-19

[21] **3,205,475**  
[13] A1

[51] **Int.Cl. B65B 7/28 (2006.01) B21D 51/26 (2006.01) B65B 31/02 (2006.01)**

[25] EN

[54] **A LID SUPPLY FOR A SEALER AND A SEALER**

[54] **STOCK DE COUVERCLES POUR UNE MACHINE DE SCELLAGE ET LADITE MACHINE**

[72] WINKELMANN, JORN, DE  
[72] STOLTENBERG, PETER, CH  
[71] FERRUM PACKAGING AG, CH  
[22] 2023-07-05  
[41] 2024-01-19  
[30] EP (22185618.0) 2022-07-19

[21] **3,205,487**  
[13] A1

[51] **Int.Cl. B65G 17/16 (2006.01) B65G 17/30 (2006.01)**

[25] EN

[54] **A CONTAINER FEED SYSTEM FOR THE TRANSPORT OF CONTAINERS**

[54] **SYSTEME DE CONVOYEUR DE CONTENEURS POUR LE TRANSPORT DE CONTENEURS**

[72] SCHONENBERG, SIMON, CH  
[71] FERRUM PACKAGING AG, CH  
[22] 2023-07-04  
[41] 2024-01-19  
[30] EP (22185616.4) 2022-07-19

[21] **3,205,498**  
[13] A1

[51] **Int.Cl. B21D 51/30 (2006.01) B65B 7/28 (2006.01) B65B 57/00 (2006.01)**

[25] EN

[54] **A METHOD FOR MONITORING A SEALER**

[54] **METHODE DE SURVEILLANCE D~UNE MACHINE DE SCELLAGE**

[72] BUHLER, OLIVER, CH  
[72] ROHR, GERHARD, CH  
[71] FERRUM PACKAGING AG, CH  
[22] 2023-07-05  
[41] 2024-01-19  
[30] EP (22185612.3) 2022-07-19

[21] **3,205,500**  
[13] A1

[51] **Int.Cl. B65B 7/28 (2006.01) B21D 51/26 (2006.01) B65B 31/02 (2006.01) B65G 37/00 (2006.01)**

[25] EN

[54] **A FEEDING DEVICE FOR A SEALER**

[54] **DISPOSITIF DE CONVOYAGE POUR UNE MACHINE DE SCELLAGE**

[72] DERENDINGER, PHILIPPE, CH  
[72] WINKELMANN, JORN, DE  
[71] FERRUM PACKAGING AG, CH  
[22] 2023-07-05  
[41] 2024-01-19  
[30] EP (22185613.1) 2022-07-19

[21] **3,205,502**  
[13] A1

[51] **Int.Cl. B67B 6/00 (2009.01) B21D 51/26 (2006.01) B65B 7/28 (2006.01)**

[25] EN

[54] **A CONTROL DEVICE FOR A SEALER**

[54] **DISPOSITIF DE COMMANDE POUR UNE MACHINE DE SCELLAGE**

[72] SCHMID, VEIT, CH  
[71] FERRUM PACKAGING AG, CH  
[22] 2023-07-05  
[41] 2024-01-19  
[30] EP (22185611.5) 2022-07-19

**Demandes canadiennes mises à la disponibilité du public**  
**14 janvier 2024 au 20 janvier 2024**

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[21] **3,205,504**  
[13] A1

[51] **Int.Cl. B65B 7/28 (2006.01) B21D 51/26 (2006.01) B21D 51/32 (2006.01)**

[25] EN

[54] **A FEEDING DEVICE FOR A SEALER**

[54] **DISPOSITIF DE CONVOYAGE POUR UNE MACHINE DE SCELLAGE**

[72] MULLER, THOMAS, CH

[71] FERRUM PACKAGING AG, CH

[22] 2023-07-05

[41] 2024-01-19

[30] EP (22185610.7) 2022-07-19

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[21] **3,205,507**  
[13] A1

[51] **Int.Cl. B65G 15/02 (2006.01) B65B 57/02 (2006.01)**

[25] EN

[54] **A CONTAINER SUPPLY SYSTEM FOR THE TRANSPORT OF A CONTAINER**

[54] **SYSTEME DE CONVOYEUR DE CONTENEURS POUR LE TRANSPORT D~UN CONTENEUR**

[72] GASSER, CYRILL, CH

[71] FERRUM PACKAGING AG, CH

[22] 2023-07-05

[41] 2024-01-19

[30] EP (22185615.6) 2022-07-19

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[21] **3,205,733**  
[13] A1

[51] **Int.Cl. B21D 51/26 (2006.01) B21D 51/30 (2006.01) B65B 7/16 (2006.01)**

[25] EN

[54] **A CASING FOR A SEALER**

[54] **BOITIER POUR MACHINE DE SCELLAGE**

[72] STOLTENBERG, PETER, CH

[72] WINKELMANN, JORN, DE

[72] HELL, GUNTER, DE

[71] FERRUM PACKAGING AG, CH

[22] 2023-07-04

[41] 2024-01-19

[30] EP (22185619.8) 2022-07-19

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[21] **3,205,773**  
[13] A1

[51] **Int.Cl. H04L 65/613 (2022.01) H04N 21/472 (2011.01) G01H 17/00 (2006.01)**

[25] EN

[54] **MEDIA NAVIGATION VIA WAVEFORM ANALYSIS AND MICRO-ADJUSTMENTS OF USER NAVIGATION REQUESTS**

[54] **NAVIGATION DE CONTENU AU MOYEN DE L~ANALYSE DES FORMES D~ONDE ET MICROAJUSTEMENTS DES DEMANDES DE NAVIGATION D~UTILISATEUR**

[72] SHOYKET, VITALY, US

[72] BOSWORTH, BRIAN SCOTT, US

[72] JONES, JEREMIAH MATTHEW, US

[72] FILION, JUSTIN BYRON, US

[72] BENNINGHOVEN, MICHELLE, US

[71] AUDACY OPERATIONS, INC., US

[22] 2023-07-07

[41] 2024-01-18

[30] US (17/867,519) 2022-07-18

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[21] **3,205,808**  
[13] A1

[25] EN

[54] **METHOD AND SERVER FOR CONTROLLING TRAFFIC LIGHTS**

[54] **METHODE ET SERVEUR POUR CONTROLER LES FEUX DE CIRCULATION**

[72] SCHEIDER, THOMAS, AT

[72] ZOECHMANN, ERICH, AT

[71] KAPSCH TRAFFICCOM AG, AT

[22] 2023-07-07

[41] 2024-01-14

[30] EP (22 184 884.9) 2022-07-14

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[21] **3,205,875**  
[13] A1

[51] **Int.Cl. A47K 3/00 (2006.01) E06B 7/22 (2006.01)**

[25] EN

[54] **FLEXIBLE SHOWER DAM**

[54] **COUPE-VOLUME FLEXIBLE POUR DOUCHE**

[72] STOUT, KENNETH L., US

[71] KOHLER CO., US

[22] 2023-07-07

[41] 2024-01-14

[30] US (US 63/389,101) 2022-07-14

[30] US (US 18/340,385) 2023-06-23

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[21] **3,205,879**  
[13] A1

[51] **Int.Cl. B64D 27/00 (2006.01) B64D 33/00 (2006.01) B64D 37/30 (2006.01) B64D 41/00 (2006.01)**

[25] EN

[54] **AIRCRAFT POWER PLANT WITH HYDROGEN TURBO-EXPANDER**

[54] **GROUPE MOTOPROPULSEURS D~AERONEF AVEC TURBODETENTEUR A HYDROGENE**

[72] LABRECQUE, MICHEL, CA

[72] NGUYEN, KEVIN, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-07-07

[41] 2024-01-14

[30] US (17/864,851) 2022-07-14

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[21] **3,205,963**  
[13] A1

[25] EN

[54] **EFFICIENT MEDIA STORAGE FOR USE IN MEDIA STREAMING**

[54] **STOCKAGE DE CONTENU EFFICACE AUX FINS D~UTILISATION DANS LA DIFFUSION DE CONTENU**

[72] SHOYKET, VITALY, US

[72] BOSWORTH, BRIAN SCOTT, US

[72] JONES, JEREMIAH MATTHEW, US

[72] FILION, JUSTIN BYRON, US

[72] MORRIS, JOHN WILLIAM, US

[72] BENNINGHOVEN, MICHELLE, US

[71] AUDACY OPERATIONS, INC., US

[22] 2023-07-10

[41] 2024-01-18

[30] US (17/867,521) 2022-07-18

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[21] **3,205,966**  
[13] A1

[51] **Int.Cl. B64D 35/00 (2006.01) B64D 27/02 (2006.01)**

[25] EN

[54] **AIRCRAFT PROPULSION SYSTEM WITH INTERMITTENT COMBUSTION ENGINE(S)**

[54] **SYSTEME DE PROPULSION D~AERONEF AVEC MOTEUR(S) A COMBUSTION INTERMITTENTE**

[72] FREER, RICHARD, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-07-07

[41] 2024-01-15

[30] US (17/866,052) 2022-07-15

**Canadian Applications Open to Public Inspection  
January 14, 2024 to January 20, 2024**

[21] **3,205,977**  
[13] A1

[51] **Int.Cl. F04B 1/122 (2020.01) E21B 43/267 (2006.01) F04B 53/02 (2006.01) F16J 15/18 (2006.01)**  
[25] EN  
[54] **DUAL RING STUFFING BOX PRESSE-ETOUPE A ANNEAU DOUBLE**  
[72] ELLISOR, KYLE MATTHEW, US  
[72] MULLINS, CHANCE RAY, US  
[72] NEWBERG, STEVEN ZACHARY, US  
[72] ALEX, AKHIL, US  
[71] VULCAN INDUSTRIAL HOLDINGS, LLC, US  
[22] 2023-07-10  
[41] 2024-01-14  
[30] US (17/864,873) 2022-07-14

[21] **3,206,044**  
[13] A1

[51] **Int.Cl. B65B 7/28 (2006.01) B21D 51/26 (2006.01) B21D 51/32 (2006.01)**  
[25] EN  
[54] **A FEEDING DEVICE FOR FEEDING A LID TO A SEALER DISPOSITIF DE CONVOYAGE POUR CONVOYER UN COUVERCLE VERS UNE MACHINE DE SCELLAGE**  
[72] MULLER, THOMAS, CH  
[72] GISLER, ROGER, CH  
[71] FERRUM PACKAGING AG, CH  
[22] 2023-07-05  
[41] 2024-01-19  
[30] EP (22185610.7) 2022-07-19  
[30] EP (22190809.8) 2022-08-17

[21] **3,206,047**  
[13] A1

[51] **Int.Cl. B65G 47/06 (2006.01) B65B 7/28 (2006.01)**  
[25] EN  
[54] **A DE-STACKING DEVICE FOR SEPARATING LIDS DISPOSITIF DE DESEMPILAGE POUR SEPARER DES COUVERCLES**  
[72] MULLER, THOMAS, CH  
[72] GISLER, ROGER, CH  
[71] FERRUM PACKAGING AG, CH  
[22] 2023-07-05  
[41] 2024-01-19  
[30] EP (22185610.7) 2022-07-19  
[30] EP (22190807.2) 2022-08-17

[21] **3,206,065**  
[13] A1

[51] **Int.Cl. A47D 1/00 (2006.01)**  
[25] EN  
[54] **SEAT STRUCTURE FOR INFANT STRUCTURE DE SIEGE POUR BEBE**  
[72] PANKRATZ, STEPHEN, CA  
[71] NUVATE INC., CA  
[22] 2023-07-10  
[41] 2024-01-14  
[30] US (63/389,186) 2022-07-14

[21] **3,206,120**  
[13] A1

[51] **Int.Cl. F16L 15/08 (2006.01) F16L 19/00 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR SECURING THREADED CONNECTIONS AGAINST UNWANTED ROTATION METHODE ET APPAREIL POUR PROTEGER DES RACCORDS FILETES CONTRE UNE ROTATION NON SOUHAITEE**  
[72] DEROUEN, DERRICK P., US  
[71] ELECTRIC LINE TECHNOLOGIES, LLC, US  
[22] 2023-07-10  
[41] 2024-01-15  
[30] US (63/389,396) 2022-07-15

[21] **3,206,144**  
[13] A1

[51] **Int.Cl. B24D 15/02 (2006.01) B24B 55/06 (2006.01) B24D 15/00 (2006.01)**  
[25] EN  
[54] **SANDING TOOL WITH INTERMEDIATE ADAPTER PAD OUTIL DE SABLAGE AVEC COUSSIN ADAPTEUR INTERMEDIAIRE**  
[72] ANNIS, KENT V., US  
[71] FULL CIRCLE INTERNATIONAL, INC., US  
[22] 2023-07-11  
[41] 2024-01-15  
[30] US (18/219,415) 2023-07-07  
[30] US (63/389,495) 2022-07-15

[21] **3,206,311**  
[13] A1

[51] **Int.Cl. E01C 23/09 (2006.01) E01F 9/70 (2016.01) B25J 9/16 (2006.01) B60P 3/14 (2006.01)**  
[25] EN  
[54] **ROBOTIC MAINTENANCE VEHICLE AND MODULES VEHICULE D-ENTRETIEN ROBOTIQUE ET MODULES**  
[72] HENDRICKS, SR., TODD, US  
[71] PIONEER INDUSTRIAL SYSTEMS, LLC, US  
[22] 2023-07-12  
[41] 2024-01-15  
[30] US (17/865,603) 2022-07-15

[21] **3,206,317**  
[13] A1

[51] **Int.Cl. G06F 21/64 (2013.01) G06F 21/10 (2013.01) G06F 16/22 (2019.01) G06F 16/27 (2019.01)**  
[25] EN  
[54] **TAMPER-EVIDENT STORAGE OF MEDIA STREAMS STOCKAGE DE FLUX DE MEDIAS INVOLABLE**  
[72] VARY, JULIEN, CA  
[72] LABERGE, YANNICK, CA  
[72] LENNARTZ, ANTOINE, CA  
[72] BEAULIEU, VINCENT, CA  
[72] RACZ, PIERRE, CA  
[71] GENETEC INC., CA  
[22] 2023-07-12  
[41] 2024-01-14  
[30] US (17/817,632) 2022-08-04  
[30] US (63/389,348) 2022-07-14

[21] **3,206,381**  
[13] A1

[25] EN  
[54] **POWER SYSTEMS HAVING BAFFLES WITH IMPROVED ACCESSIBILITY SYSTEMES D-ALIMENTATION COMPRENANT DES CHICANES A ACCESSIBILITE AMELIOREE**  
[72] NELSON, JONATHON JAMES, US  
[71] ILLINOIS TOOL WORKS INC., US  
[22] 2023-07-12  
[41] 2024-01-15  
[30] US (17/866,313) 2022-07-15

**Demandes canadiennes mises à la disponibilité du public**  
**14 janvier 2024 au 20 janvier 2024**

[21] **3,206,401**  
 [13] A1

[51] **Int.Cl. G02B 5/00 (2006.01)**  
 [25] EN  
 [54] **OPTICAL ELEMENT FOR A LIGHTING ASSEMBLY**  
 [54] **ELEMENT OPTIQUE POUR UN ASSEMBLAGE D~ECLAIRAGE**  
 [72] BAKER, DOUGLAS, V., US  
 [72] MILLER, BRADLEY, US  
 [71] EMERGENCY TECHNOLOGY, INC., US  
 [22] 2023-07-12  
 [41] 2024-01-20  
 [30] US (17/813,682) 2022-07-20

[21] **3,206,421**  
 [13] A1

[51] **Int.Cl. E03F 5/22 (2006.01) E03F 5/02 (2006.01) F04B 53/16 (2006.01)**  
 [25] EN  
 [54] **CONDENSED SUMP PUMP CROCK**  
 [54] **POT DE POMPE D'ASSECHEMENT CONDENSE**  
 [72] CHAPEL, KARL, US  
 [72] GENORD, AUSTIN ROBERT, US  
 [71] INDEPENDENCE MATERIALS GROUP, LLC, US  
 [22] 2023-07-12  
 [41] 2024-01-15  
 [30] US (18/219,806) 2023-07-10  
 [30] US (63/389,453) 2022-07-15

[21] **3,206,430**  
 [13] A1

[25] EN  
 [54] **DEVICE FOR HANDLING OF CONVEYED GOODS WITHIN A BARRIER SYSTEM**  
 [54] **DISPOSITIF DE MANUTENTION DE MARCHANDISES TRANSPORTEES A L~INTERIEUR D~UN SYSTEME DE BARRIERES**  
 [72] NAGLER, STEFAN, DE  
 [72] KRAUSS, ULRICH, DE  
 [72] ILGENFRITZ, MARKUS, DE  
 [72] STEGMEIER, SAMUEL, DE  
 [71] SYNTEGON TECHNOLOGY GMBH, DE  
 [22] 2023-07-13  
 [41] 2024-01-14  
 [30] DE (102022117631.2) 2022-07-14

[21] **3,206,534**  
 [13] A1

[51] **Int.Cl. C10B 57/02 (2006.01) C10B 53/02 (2006.01)**  
 [25] EN  
 [54] **PYROLYSIS SYSTEM FOR CONVERTING CARBONEOUS MATERIALS INTO BIOCHAR AND METHOD FOR OPERATING SAME**  
 [54] **SYSTEME DE PYROLYSE AFIN DE CONVERTIR LES MATIERES CARBONEES EN BIOCHARBON ET METHODE D~EXPLOITATION**  
 [72] LANGLOIS, SIMON, CA  
 [72] LANGLOIS, ANTOINE, CA  
 [72] LORD, DOMINIC, CA  
 [71] XYLO-CARBONE INC., CA  
 [22] 2023-07-12  
 [41] 2024-01-15  
 [30] US (63/389,404) 2022-07-15

[21] **3,206,545**  
 [13] A1

[51] **Int.Cl. B09B 3/80 (2022.01) B01D 53/00 (2006.01) B09B 1/00 (2006.01) F04F 3/00 (2006.01) F16K 17/00 (2006.01)**  
 [25] EN  
 [54] **FAIL-SAFE WASTE GAS COLLECTION SYSTEM**  
 [54] **SYSTEME DE COLLECTE DES GAZ RESIDUAIRES A SECURITE INTEGREE**  
 [72] LEWIS, DELANEY, US  
 [72] URRUTIA, JOSE, US  
 [71] WATERSHED GEOSYNTHETICS LLC, US  
 [22] 2023-07-13  
 [41] 2024-01-14  
 [30] US (63/389,344) 2022-07-14

[21] **3,206,553**  
 [13] A1

[51] **Int.Cl. G05B 19/4097 (2006.01)**  
 [25] EN  
 [54] **SYSTEM AND METHOD FOR DEVELOPING A NUMERICAL CONTROL MANUFACTURING PROGRAM**  
 [54] **SYSTEME ET METHODE POUR LA CONCEPTION D~UN PROGRAMME DE FABRICATION A COMMANDE NUMERIQUE**  
 [72] GUO, CHANGSHENG, CA  
 [72] DROUIN LABERGE, CLEMENT, CA  
 [72] JEAN, JOEL, CA  
 [71] PRATT & WHITNEY CANADA CORP., CA  
 [22] 2023-07-12  
 [41] 2024-01-15  
 [30] US (17/866,118) 2022-07-15

[21] **3,206,561**  
 [13] A1

[51] **Int.Cl. B64D 35/04 (2006.01) B64D 27/00 (2006.01) B64D 27/02 (2006.01)**  
 [25] EN  
 [54] **AIRCRAFT PROPULSION SYSTEM WITH INTERMITTENT COMBUSTION ENGINE(S)**  
 [54] **SYSTEME DE PROPULSION D~AERONEF AVEC MOTEUR(S) A COMBUSTION INTERMITTENTE**  
 [72] FREER, RICHARD, CA  
 [71] PRATT & WHITNEY CANADA CORP., CA  
 [22] 2023-07-12  
 [41] 2024-01-15  
 [30] US (17/866,063) 2022-07-15

**Canadian Applications Open to Public Inspection  
January 14, 2024 to January 20, 2024**

[21] **3,206,566**  
[13] A1

[25] EN  
[54] **ALTERING AND ENHANCING  
RESONATOR PERFORMANCES  
USING FREE TO FIXED  
BOUNDARY RATIO (FFBR)  
TOPOLOGY**  
[54] **MODIFICATION ET  
AMELIORATION DES  
RENDEMENTS D~UN  
RESONATEUR AU MOYEN  
D~UNE TOPOLOGIE A RAPPORT  
DE CONTOUR LIBRE-FIXE  
(FFBR)**  
[72] NAZEMI, HALEH, CA  
[72] EMADI, AREZOO, CA  
[71] UNIVERSITY OF WINDSOR, CA  
[22] 2023-07-12  
[41] 2024-01-20  
[30] US (63/390656) 2022-07-20

[21] **3,206,579**  
[13] A1

[51] **Int.Cl. F04B 43/12 (2006.01) F04B  
43/08 (2006.01) F04B 45/08 (2006.01)**  
[25] EN  
[54] **PERISTALTIC PUMP OFFSET  
ROTOR ASSEMBLY**  
[54] **ASSEMBLAGE DE ROTOR  
DECALE POUR POMPE  
PERISTALTIQUE**  
[72] HANNAH, GARY, US  
[72] DUNN, BRYAN JR., US  
[71] MILTON ROY, LLC, US  
[22] 2023-07-13  
[41] 2024-01-15  
[30] US (17/866,003) 2022-07-15

[21] **3,206,586**  
[13] A1

[51] **Int.Cl. H04M 3/436 (2006.01) H04M  
3/493 (2006.01)**  
[25] EN  
[54] **CARRIER SIGNALING BASED  
AUTHENTICATION AND FRAUD  
DETECTION**  
[54] **AUTHENTIFICATION ET  
DETECTION DE FRAUDE AXEES  
SUR LA SIGNALISATION DE LA  
PORTEUSE**  
[72] CASAL, RICKY, US  
[72] MADDALI, VINAY, US  
[72] GUPTA, PAYAS, US  
[72] PATIL, KALLASH, US  
[71] PINDROP SECURITY, INC., US  
[22] 2023-07-13  
[41] 2024-01-14  
[30] US (63/389,283) 2022-07-14

[21] **3,206,607**  
[13] A1

[25] EN  
[54] **CONSOLIDATION OF ALERTS  
BASED ON CORRELATIONS**  
[54] **CONSOLIDATION DES ALERTES  
FONDEE SUR DES  
CORRELATIONS**  
[72] MADDEN, DONALD GERALD, US  
[72] SHAYNE, ETHAN, US  
[71] OBJECTVIDEO LABS, LLC, US  
[22] 2023-07-13  
[41] 2024-01-14  
[30] US (63/389089) 2022-07-14

[21] **3,206,618**  
[13] A1

[51] **Int.Cl. A47C 7/28 (2006.01)**  
[25] EN  
[54] **SEAT CONNECTION  
MECHANISM USING METALLIC  
AND POLYMER COMPONENTS**  
[54] **MECANISME  
D~ACCOUPLLEMENT DE SIEGE  
UTILISANT DES COMPOSANTS  
METALLIQUES ET DE  
POLYMERES**  
[72] OLARTE, ALVARO MAURICIO, US  
[71] SERIES INTERNATIONAL, LLC, US  
[22] 2023-07-14  
[41] 2024-01-14  
[30] US (18/351.015) 2023-07-12  
[30] US (63/389.129) 2022-07-14

[21] **3,206,624**  
[13] A1

[51] **Int.Cl. A41D 13/00 (2006.01) D03D  
15/513 (2021.01)**  
[25] EN  
[54] **FABRIC MATERIAL THAT IS  
RESISTANT TO FLASH FIRES  
AND ELECTRICAL ARC FLASHES**  
[54] **MATERIAU DE TISSU RESISTANT  
AUX EMBRASEMENTS ECLAIR  
ET AUX ARCS ELECTRIQUES**  
[72] SMITH, CEVIN BRENT, US  
[71] BURLINGTON INDUSTRIES LLC,  
US  
[22] 2023-07-14  
[41] 2024-01-15  
[30] US (63/389,592) 2022-07-15

[21] **3,206,627**  
[13] A1

[51] **Int.Cl. B66F 9/075 (2006.01) G05D  
3/12 (2006.01) G05D 13/00 (2006.01)**  
[25] EN  
[54] **ADVANCED MATERIAL  
HANDLING VEHICLE**  
[54] **VEHICULE DE MANUTENTION  
DE POINTE**  
[72] PARLAKTUNA, MUSTAFA, US  
[72] RELYEA, ROBERT ERIC, US  
[72] SIMPSON, ANTHONY BRIAN, US  
[71] TOYOTA MATERIAL HANDLING,  
INC., US  
[22] 2023-07-14  
[41] 2024-01-14  
[30] US (63/368,390) 2022-07-14

[21] **3,206,631**  
[13] A1

[51] **Int.Cl. G02B 27/10 (2006.01) G02B  
6/28 (2006.01) G02B 6/44 (2006.01)**  
[25] EN  
[54] **HIGH DENSITY OPTICAL  
SPLITTER WITH INTERNAL  
FANOUT DEVICE**  
[54] **DIVISEUR OPTIQUE A HAUTE  
DENSITE AVEC DISPOSITIF  
REPARTITEUR INTERNE**  
[72] BURKETT, ALAN DUNCAN, US  
[72] GIRAUD, WILLIAM JULIUS  
MCPHIL, US  
[72] HU, LINGLING, US  
[71] CORNING RESEARCH &  
DEVELOPMENT CORPORATION,  
US  
[22] 2023-07-14  
[41] 2024-01-14  
[30] US (63/389079) 2022-07-14

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[21] **3,206,632**  
[13] A1

[51] **Int.Cl. G02B 27/10 (2006.01) G02B 6/28 (2006.01)**  
[25] EN  
[54] **HIGH DENSITY OPTICAL SPLITTER WITH EXTERNAL FANOUT DEVICE**  
[54] **DIVISEUR OPTIQUE A HAUTE DENSITE AVEC DISPOSITIF REPARTITEUR EXTERNE**  
[72] BURKETT, ALAN DUNCAN, US  
[72] GIRAUD, WILLIAM JULIUS MCPHIL, US  
[72] HU, LINGLING, US  
[71] CORNING RESEARCH & DEVELOPMENT CORPORATION, US  
[22] 2023-07-14  
[41] 2024-01-14  
[30] US (63/389084) 2022-07-14

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[21] **3,206,636**  
[13] A1

[51] **Int.Cl. B65G 45/12 (2006.01)**  
[25] EN  
[54] **CONVEYOR BELT CLEANING APPARATUS**  
[54] **APPAREIL DE NETTOYAGE DE BANDE TRANSPORTEUSE**  
[72] FOLEY, SHAWN, CA  
[71] ILB SOLUTIONS LTD., CA  
[22] 2023-07-13  
[41] 2024-01-14  
[30] US (17/812,539) 2022-07-14

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[21] **3,206,638**  
[13] A1

[51] **Int.Cl. G06V 30/19 (2022.01) G06F 40/143 (2020.01) G06F 40/211 (2020.01) G06V 30/142 (2022.01) G06V 30/224 (2022.01) G06V 30/32 (2022.01) G06N 3/0455 (2023.01) G06N 3/09 (2023.01)**  
[25] EN  
[54] **SYNTAX-DIRECTED MATHEMATICAL EXPRESSION RECOGNITION SYSTEM**  
[54] **SYSTEME DE RECONNAISSANCE D-EXPRESSIONS MATHEMATIQUES SENSIBLES A LA SYNTAXE**  
[72] ZHUANG, JIANMING, CN  
[72] CHAN, CHUNG KWONG, CN  
[71] SUNIA PTE. LTD, SG  
[22] 2023-07-13  
[41] 2024-01-14  
[30] US (17864428) 2022-07-14

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[21] **3,206,644**  
[13] A1

[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/32 (2006.01)**  
[25] EN  
[54] **WELDING TECHNIQUE MONITORING SYSTEMS USING ACOUSTIC TRACKING**  
[54] **SYSTEMES DE SURVEILLANCE DES TECHNIQUES DE SOUDAGE AU MOYEN D-UN SUIVI ACOUSTIQUE**  
[72] BECKER, WILLIAM JOSHUA, US  
[71] ILLINOIS TOOL WORKS INC., US  
[22] 2023-07-13  
[41] 2024-01-18  
[30] US (63/390,133) 2022-07-18  
[30] US (18/219,937) 2023-07-10

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[21] **3,206,658**  
[13] A1

[25] EN  
[54] **POWER CONNECTION FOR SAFE ENERGIZING OF A POWER UNIT IN A MOTOR CONTROL CENTER**  
[54] **RACCORD D-ALIMENTATION POUR LA MISE SOUS TENSION SECURITAIRE D-UN BLOC D'ALIMENTATION DANS UN CENTRE DE COMMANDE DE MOTEUR**  
[72] GHORPADE, SHRIRAM JAYSHANKAR, IE  
[72] BORDEWICK, JOHN A., IE  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[22] 2023-07-14  
[41] 2024-01-15  
[30] US (17/866131) 2022-07-15

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[21] **3,206,661**  
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) F02D 29/04 (2006.01) F04B 17/00 (2006.01) F04B 23/04 (2006.01) F04B 49/00 (2006.01) F16D 48/06 (2006.01)**  
[25] EN  
[54] **CONTROL OF A DUAL-PUMP SINGLE-POWER SOURCE SYSTEM**  
[54] **COMMANDE D-UN SYSTEME SOURCE A DEUX POMPES ET A ALIMENTATION SIMPLE**  
[72] PETERSON, LUCAS J., US  
[72] VOICULESCU, DAVID A., US  
[72] PUBLES, ANDY, US  
[72] GRIMES, MARK F., US  
[71] CATERPILLAR INC., US  
[22] 2023-07-14  
[41] 2024-01-19  
[30] US (17/813573) 2022-07-19

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[21] **3,206,663**  
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) F02D 29/04 (2006.01) F04B 17/00 (2006.01) F04B 23/04 (2006.01) F04B 49/00 (2006.01) F16C 3/22 (2006.01) F16D 48/06 (2006.01)**  
[25] EN  
[54] **CONTROL OF A DUAL-PUMP SINGLE-POWER SOURCE SYSTEM**  
[54] **COMMANDE D-UN SYSTEME SOURCE A DEUX POMPES ET A ALIMENTATION SIMPLE**  
[72] PETERSON, LUCAS J., US  
[72] VOICULESCU, DAVID A., US  
[72] PUBLES, ANDY, US  
[72] GRIMES, MARK F., US  
[71] CATERPILLAR INC., US  
[22] 2023-07-14  
[41] 2024-01-19  
[30] US (17/813575) 2022-07-19

**Canadian Applications Open to Public Inspection  
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[21] **3,206,685**  
[13] A1

[51] **Int.Cl. F16M 13/02 (2006.01) H01F 7/02 (2006.01)**  
[25] EN  
[54] **MAGNETIC MOUNTING APPARATUS AND METHOD FOR INSTALLING CAMERAS**  
[54] **APPAREIL DE MONTAGE MAGNETIQUE ET METHODE D-INSTALLATION DE CAMERAS**  
[72] HOANG, JACK, CA  
[71] I3 INTERNATIONAL INC., CA  
[22] 2023-07-14  
[41] 2024-01-15  
[30] CA (3,168,053) 2022-07-15

[21] **3,206,697**  
[13] A1

[51] **Int.Cl. H04W 36/30 (2009.01) H04W 36/08 (2009.01) H04W 36/38 (2009.01) H04B 17/309 (2015.01) H04B 17/373 (2015.01)**  
[25] EN  
[54] **MOBILITY IN RADIO ACCESS NETWORK**  
[54] **MOBILITE DANS UN RESEAU D'ACCES RADIOELECTRIQUE**  
[72] FILIN, STANISLAV, US  
[72] PARK, KYUNGMIN, US  
[72] DINAN, ESMAEL HEJAZI, US  
[72] XU, JIAN, US  
[72] CHUN, SUNGDUCK, US  
[72] FARD, PEYMAN TALEBI, US  
[72] QIAO, WEIHUA, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2023-07-14  
[41] 2024-01-15  
[30] US (63/389,612) 2022-07-15

[21] **3,206,702**  
[13] A1

[25] EN  
[54] **METHOD FOR SUPPLYING A CONSTRUCTION SITE WITH ELECTRICAL ENERGY AND ENERGY SUPPLY STATION FOR THE ELECTRIFICATION OF CONSTRUCTION SITES**  
[54] **METHODE D-ALIMENTATION D-UN CHANTIER DE CONSTRUCTION EN ENERGIE ELECTRIQUE ET STATION DE FOURNITURE D-ENERGIE POUR L-ELECTRIFICATION DES CHANTIERS DE CONSTRUCTION**  
[72] PFANDER, MATHIAS, DE  
[72] ZELL, FABIAN, DE  
[72] SUHM, PHILLIPP, DE  
[72] SCHMITZ, ANDRE, DE  
[71] LIEBHERR-ELECTRONICS AND DRIVES GMBH, DE  
[22] 2023-07-14  
[41] 2024-01-14  
[30] DE (10 2022 117 640.1) 2022-07-14

[21] **3,206,710**  
[13] A1

[51] **Int.Cl. B25D 1/04 (2006.01) B25F 1/00 (2006.01)**  
[25] EN  
[54] **COMBINATION HAND TOOL HAVING A HAMMER, A HATCHET, AND TWO TYPES OF SCREW AND NAIL PULLERS**  
[54] **OUTIL A MAIN COMBINE COMPRENANT UN MARTEAU, UNE HACHETTE ET DEUX TYPES D-ARRACHE-VIS ET D-ARRACHE-CLOUS**  
[72] LABBE, ANTHONY, CA  
[71] LABBE, ANTHONY, CA  
[22] 2023-07-17  
[41] 2024-01-20  
[30] GB (2210587.8) 2022-07-20

[21] **3,206,713**  
[13] A1

[51] **Int.Cl. D06M 15/643 (2006.01) C08J 3/24 (2006.01) C08L 83/04 (2006.01) C09D 183/04 (2006.01)**  
[25] EN  
[54] **RESIN FOR USE IN SETTING A CREASE IN A GARMENT, A METHOD AND APPARATUS FOR APPLYING THE SAME AND A GARMENT INCLUDING THE RESIN**  
[54] **RESINE A UTILISER POUR CREER UN PLI DANS UN VETEMENT, METHODE, APPAREIL DE MISE EN OEUVRE ET VETEMENT COMPRENANT LA RESINE**  
[72] STEWART, PAUL, GB  
[72] HOULBROOK, DANIEL, GB  
[71] SUPERCREASE LIMITED, GB  
[22] 2023-07-17  
[41] 2024-01-18  
[30] GB (GB2210511.8) 2022-07-18

[21] **3,206,719**  
[13] A1

[51] **Int.Cl. B23D 61/18 (2006.01) B23D 49/00 (2006.01) B23D 51/00 (2006.01)**  
[25] EN  
[54] **CURVED BLADE FOR RECIPROCATING TOOL**  
[54] **LAME COURBE POUR OUTIL A VA-ET-VIENT**  
[72] CARRIERE, MIKE, CA  
[71] CARRIERE, MIKE, CA  
[22] 2023-07-17  
[41] 2024-01-19  
[30] US (17/867,872) 2022-07-19



**Demandes canadiennes mises à la disponibilité du public  
14 janvier 2024 au 20 janvier 2024**

[21] **3,206,722**  
[13] A1

[51] **Int.Cl. B62D 33/023 (2006.01) B60J 11/06 (2006.01) B60R 11/00 (2006.01) B60R 13/02 (2006.01)**

[25] EN

[54] **PAD OR COVER SYSTEMS FOR TRUCK TAILGATES AND THE LIKE**

[54] **PLAQUETTE OU SYSTEMES DE COUVERTURE POUR LES HAYONS DE CAMION ET AUTRES ELEMENTS SEMBLABLES**

[72] KIEFER, WILLIAM H., US

[72] SUTHERLAND, NATHAN T., US

[71] N.B. ADVENTURES LLC D.B.A. BILLIEBARS, US

[22] 2023-07-17

[41] 2024-01-15

[30] US (17/865,901) 2022-07-15

[21] **3,206,740**  
[13] A1

[51] **Int.Cl. G05D 1/672 (2024.01) A01B 69/00 (2006.01) B62D 12/00 (2006.01) B62D 13/00 (2006.01)**

[25] EN

[54] **STEERING METHOD FOR AN AGRICULTURAL MACHINE**

[54] **METHODE DE DIRECTION D~UNE MACHINE AGRICOLE**

[72] MUTER, MATTHIAS, DE

[72] GREYER, ALEXANDER, DE

[72] MENKE, STEFAN, DE

[71] KRONE AGRICULTURE SE, DE

[71] LEMKEN GMBH & CO. KG, DE

[22] 2023-07-17

[41] 2024-01-18

[30] DE (102022117884.6) 2022-07-18

[21] **3,206,775**  
[13] A1

[51] **Int.Cl. B65D 19/34 (2006.01) A47B 43/02 (2006.01) A47F 1/14 (2006.01) A47F 5/11 (2006.01) B65D 5/44 (2006.01) B65D 19/38 (2006.01) B65D 21/032 (2006.01) B65D 25/00 (2006.01)**

[25] EN

[54] **SUSTAINABLE RACK AND DISPLAY SYSTEM**

[54] **SYSTEME DE RATELIER ET DE PRESENTOIR DURABLE**

[72] SIMONS, ANDREW, US

[72] WILLIAMS, JEFF, US

[72] WRIGHT, SHANE, US

[72] VULGAMOTT, RICK T., US

[72] MCDONALD, AARON, US

[72] HOOVER, SHANNON, US

[71] MULTI PACKAGING SOLUTIONS, INC., US

[22] 2023-07-12

[41] 2024-01-15

[30] US (63/389,518) 2022-07-15

[21] **3,206,779**  
[13] A1

[51] **Int.Cl. B64D 35/08 (2006.01) B64D 27/00 (2006.01)**

[25] EN

[54] **AIRCRAFT PROPULSION SYSTEM WITH INTERMITTENT COMBUSTION ENGINE(S)**

[54] **SYSTEME DE PROPULSION D~AERONEF AVEC MOTEUR(S) A COMBUSTION INTERMITTENTE**

[72] FREER, RICHARD, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-07-13

[41] 2024-01-15

[30] US (17/866,103) 2022-07-15

[21] **3,206,808**  
[13] A1

[51] **Int.Cl. B64D 35/04 (2006.01) B64D 27/02 (2006.01)**

[25] EN

[54] **AIRCRAFT PROPULSION SYSTEM WITH INTERMITTENT COMBUSTION ENGINE(S)**

[54] **SYSTEME DE PROPULSION D~AERONEF AVEC MOTEUR(S) A COMBUSTION INTERMITTENTE**

[72] FREER, RICHARD, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-07-13

[41] 2024-01-15

[30] US (17/866,081) 2022-07-15

[21] **3,206,810**  
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS TO ADAPT A SCHEDULE TO BE PLAYED BY A MEDIA PLAYER**

[54] **SYSTEMES ET METHODES POUR ADAPTER UN PROGRAMME A FAIRE JOUER PAR UN LECTEUR DE CONTENU**

[72] PANCHAKSHARAIHAH, VISHWAS SHARADANAGAR, IN

[72] GUPTA, VIKRAM MAKAM, IN

[72] SINGH, GYANVEER, IN

[72] HARB, REDA, US

[71] ROVI GUIDES, INC., US

[22] 2023-07-14

[41] 2024-01-15

[30] US (17/866145) 2022-07-15

[21] **3,206,813**  
[13] A1

[51] **Int.Cl. B28B 11/00 (2006.01) B28C 5/00 (2006.01) C04B 28/02 (2006.01) C09K 8/46 (2006.01)**

[25] EN

[54] **GEOPOLYMER WELL BORE PLACEMENT AND SEALING**

[54] **PLACEMENT ET SCELLAGE DE TROU DE FORAGE POUR GEOPOLYMERE**

[72] MESHER, SHAUN T., CA

[72] MCDONALD, MICHAEL, CA

[71] MAGNUM CEMENTING SERVICES OPERATIONS LTD., CA

[71] NATIONAL SILICATES PARTNERSHIP, CA

[22] 2023-07-18

[41] 2024-01-18

[30] US (63/390,284) 2022-07-18

[21] **3,206,814**  
[13] A1

[51] **Int.Cl. B21D 7/02 (2006.01) B21D 9/12 (2006.01) B29C 53/02 (2006.01) F16L 3/215 (2006.01)**

[25] EN

[54] **HYDRAULIC CONDUIT BENDER**

[54] **COUDE DE CONDUIT HYDRAULIQUE**

[72] MCNURLIN, RANDALL, US

[72] NELSON, TRAVIS, US

[72] BARDIN, DAVID, US

[71] SOUTHWIRE COMPANY, LLC, US

[22] 2023-07-18

[41] 2024-01-18

[30] US (63/368,712) 2022-07-18

**Canadian Applications Open to Public Inspection  
January 14, 2024 to January 20, 2024**

[21] **3,206,816**  
[13] A1

[25] FR  
[54] **METHOD FOR COMMUNICATION USING ELECTRONIC BADGES THAT COMMUNICATE WITH BEACONS**  
[54] **PROCEDE DE COMMUNICATION UTILISANT DES BADGES ELECTRONIQUES COMMUNIQUANT AVEC DES BALISES**  
[72] BOUCHET, ANTOINE, FR  
[71] SCAN-MATCH, FR  
[22] 2023-07-18  
[41] 2024-01-20  
[30] FR (22 07446) 2022-07-20

[21] **3,206,823**  
[13] A1

[51] **Int.Cl. B62D 53/08 (2006.01) B60D 1/14 (2006.01) B60D 1/28 (2006.01) B62D 53/10 (2006.01) B62D 53/12 (2006.01) B62D 63/08 (2006.01)**  
[25] EN  
[54] **SHUNT TRUCK-DOCK SAFETY SYSTEMS**  
[54] **SYSTEMES DE SECURITE DE QUAI ET DE CAMION DE MANOEUVRE**  
[72] KIMENER, PATRICK MARK, US  
[71] STABILOCK, LLC, US  
[22] 2023-07-18  
[41] 2024-01-19  
[30] US (63/390,389) 2022-07-19  
[30] US (18/328,208) 2023-06-02

[21] **3,206,827**  
[13] A1

[25] EN  
[54] **SMART AUTOMATIC SKIP MODE MODE DE PASSAGE AUTOMATIQUE INTELLIGENT**  
[72] CHUNDI, CHARISHMA, IN  
[72] HARB, REDA, US  
[72] PANDEY, RAJENDRA, IN  
[71] ROVI GUIDES, INC., US  
[22] 2023-07-14  
[41] 2024-01-15  
[30] US (17/865785) 2022-07-15

[21] **3,206,855**  
[13] A1

[25] EN  
[54] **HIGH ANNEALING TEMPERATURE TREE WIRE**  
[54] **FIL D~ARBRE A TEMPERATURE DE RECUIT ELEVEE**  
[72] HOLCOMBE, CHARLES L., US  
[71] SOUTHWIRE COMPANY, LLC, US  
[22] 2023-07-18  
[41] 2024-01-18  
[30] US (63/368,707) 2022-07-18

[21] **3,206,887**  
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) A24D 1/20 (2020.01) H05B 6/10 (2006.01)**  
[25] EN  
[54] **AEROSOL GENERATING DEVICE AUTHENTICATED BY SIGNAL**  
[54] **DISPOSITIF DE GENERATION D~AEROSOL AUTHENTIFIE PAR SIGNAL**  
[72] KIM, HYUNG MIN, KR  
[72] CHO, SUNG MIN, KR  
[72] PARK, SE WON, KR  
[72] YOU, JONG HUN, KR  
[71] EM-TECH CO., LTD., KR  
[22] 2023-07-13  
[41] 2024-01-15  
[30] KR (10-2022-0087832) 2022-07-15

[21] **3,206,990**  
[13] A1

[51] **Int.Cl. E02D 5/52 (2006.01) E02D 5/56 (2006.01) E02D 5/74 (2006.01) E02D 35/00 (2006.01)**  
[25] EN  
[54] **FOUNDATION SUPPORT SYSTEMS, ASSEMBLIES AND METHODS INCLUDING SLEEVE COUPLER AND SHAFTS WITH TORQUE TRANSMITTING PROFILED DISTAL END EDGES**  
[54] **SYSTEMES DE SUPPORT DE FONDATION, ASSEMBLAGES ET METHODES COMPRENANT UN RACCORD DE MANCHON ET DES ARBRES POSSEDANT DES BORDS D~EXTREME DISTALE PROFILES POUR LA TRANSMISSION DE COUPLE**  
[72] KAUFMAN, KEVIN, US  
[72] WILKIS, MICHAEL D., US  
[71] PIER TECH SYSTEMS LLC, US  
[22] 2023-07-18  
[41] 2024-01-18  
[30] US (63/389,999) 2022-07-18

[21] **3,206,999**  
[13] A1

[51] **Int.Cl. E02D 5/56 (2006.01) E02D 5/64 (2006.01)**  
[25] EN  
[54] **TAPERED, LOCKING, ANTI-REVERSE COUPLER ASSEMBLY FOR FOUNDATION SUPPORT SYSTEM**  
[54] **ASSEMBLAGE DE RACCORD CONIQUE, VERROUILLANT ET ANTI-RETOUR POUR UN SYSTEME DE SUPPORT DE FONDATION**  
[72] KAUFMAN, KEVIN, US  
[72] WILKIS, MICHAEL D., US  
[71] PIER TECH SYSTEMS LLC, US  
[22] 2023-07-18  
[41] 2024-01-19  
[30] US (63/390,320) 2022-07-19

[21] **3,207,039**  
[13] A1

[51] **Int.Cl. A61B 17/92 (2006.01) A61B 17/00 (2006.01) B25D 11/04 (2006.01) B25F 1/00 (2006.01)**  
[25] EN  
[54] **LINEAR ELECTRIC SURGICAL HAMMER IMPACT TOOL**  
[54] **MARTEAU DE PERCUSSION CHIRURGICAL ELECTRIQUE LINEAIRE**  
[72] SLOCUM, ALEXANDER, US  
[72] GOYAL, NITIN, US  
[72] DITTRICH, JOSHUA, US  
[72] SINGER, NEIL, US  
[71] ZIMMER, INC., US  
[22] 2023-07-19  
[41] 2024-01-19  
[30] US (63/390,354) 2022-07-19  
[30] US (63/450,316) 2023-03-06

[21] **3,207,047**  
[13] A1

[51] **Int.Cl. E05B 73/00 (2006.01) F16G 11/10 (2006.01) F16K 35/06 (2006.01) F16P 1/00 (2006.01) G05G 5/28 (2006.01)**  
[25] EN  
[54] **VALVE LOCKOUT**  
[54] **VERROUILLAGE DE CLAPET**  
[72] ENGER, ANDREW N., US  
[71] BRADY WORLDWIDE, INC., US  
[22] 2023-07-19  
[41] 2024-01-19  
[30] US (17/867,925) 2022-07-19

**Demandes canadiennes mises à la disponibilité du public  
14 janvier 2024 au 20 janvier 2024**

[21] **3,207,075**  
[13] A1

[51] **Int.Cl. B64D 15/20 (2006.01)**  
[25] EN  
[54] **TEMPERATURE-BASED SUPPRESSION OF SPURIOUS ICE SIGNALS**  
[54] **SUPPRESSION DE SIGNAUX PARASITES DE GLACE AXEE SUR LA TEMPERATURE**  
[72] LOPRESTO, VINCENT R., US  
[71] ROSEMOUNT AEROSPACE INC., US  
[22] 2023-07-13  
[41] 2024-01-15  
[30] US (17/865,999) 2022-07-15

[21] **3,207,077**  
[13] A1

[51] **Int.Cl. B60L 50/64 (2019.01) B60L 50/60 (2019.01) B60K 1/04 (2019.01) B60N 2/005 (2006.01) B62M 27/02 (2006.01)**  
[25] EN  
[54] **SEAT ATTACHMENT FOR ELECTRIC RECREATIONAL VEHICLE**  
[54] **ACCESSOIRE DE SIEGE POUR UN VEHICULE RECREATIF ELECTRIQUE**  
[72] MARTEL, PHILIPPE, CA  
[72] DOWDEN, PAUL, CA  
[72] LEFRANCOIS, JEROME, CA  
[72] BERNIER, PATRICK, CA  
[71] TAIGA MOTORS INC., CA  
[22] 2023-07-13  
[41] 2024-01-18  
[30] US (63/370,969) 2022-08-10  
[30] US (63/368,679) 2022-07-18

[21] **3,207,084**  
[13] A1

[51] **Int.Cl. B60K 1/04 (2019.01) B60L 50/60 (2019.01) B62D 55/06 (2006.01) B62M 27/02 (2006.01)**  
[25] EN  
[54] **ELECTRIC SNOWMOBILE ARCHITECTURE**  
[54] **ARCHITECTURE DE MOTONEIGE ELECTRIQUE**  
[72] DOWDEN, PAUL, CA  
[72] SCHROEDER, MATTHEW, CA  
[72] BELL, DANIEL, CA  
[72] BERNIER, PATRICK, CA  
[71] TAIGA MOTORS INC., CA  
[22] 2023-07-13  
[41] 2024-01-18  
[30] US (63/368,679) 2022-07-18  
[30] US (63/370,969) 2022-08-10

[21] **3,207,114**  
[13] A1

[51] **Int.Cl. G06Q 30/0241 (2023.01) G16Y 10/45 (2020.01) G16Y 20/40 (2020.01) G06Q 30/0242 (2023.01) G06Q 30/0251 (2023.01) G06F 3/16 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR A SMART CONNECTED DEVICE TO PLAY AND RESPOND TO A DIGITAL AD TAG WITH AN EMBEDDED VOICE APPLICATION**  
[54] **SYSTEME ET METHODE PERMETTANT A UN APPAREIL INTELLIGENT CONNECTE DE LIRE UNE ETIQUETTE PUBLICITAIRE NUMERIQUE ET D~Y REPONDRE A L~AIDE D~UNE APPLICATION VOCALE INTEGREE**  
[72] HORVATH, NORBERT, MT  
[72] CADBURY, CHARLIE, GB  
[72] SIEZEN, SANDER, GB  
[71] SAY IT NOW LTD., GB  
[22] 2023-07-13  
[41] 2024-01-14  
[30] US (63/389,190) 2022-07-14

[21] **3,207,154**  
[13] A1

[25] EN  
[54] **SYSTEMS AND METHODS FOR DETERMINING SENSOR LOCATION AND ORIENTATION**  
[54] **SYSTEMES ET METHODES POUR DETERMINER L~EMPLACEMENT ET L~ORIENTATION DES CAPTEURS**  
[72] GONCALVES, FERNANDO D., US  
[72] WEISS, JOSEPH A., US  
[71] THE RAYMOND CORPORATION, US  
[22] 2023-07-13  
[41] 2024-01-14  
[30] US (63/389291) 2022-07-14

[21] **3,207,321**  
[13] A1

[51] **Int.Cl. G06Q 50/16 (2024.01) G06Q 30/0283 (2023.01)**  
[25] EN  
[54] **ESTIMATING MARKET RENT VALUE OF A PROPERTY**  
[54] **ESTIMATION DE LA VALEUR DU LOYER ECONOMIQUE D~UNE PROPRIETE**  
[72] ABDI, AMIR, CA  
[72] ADINATA, JAMES, CA  
[72] ETEBARIAN, HAMIDREZA, CA  
[72] SEYEDNEJAD, RAZ, CA  
[72] SADRI, MASOUD, CA  
[71] OFFERLAND TECHNOLOGIES INC., CA  
[22] 2023-07-19  
[41] 2024-01-19  
[30] US (63/390,608) 2022-07-19

[21] **3,207,389**  
[13] A1

[51] **Int.Cl. A01M 31/02 (2006.01) A45F 3/26 (2006.01) A47C 9/10 (2006.01) B66C 23/32 (2006.01) B66F 11/00 (2006.01)**  
[25] EN  
[54] **SELF-CLIMBING PLATFORM AND METHOD**  
[54] **PLATEFORME AUTOMONTANTE ET METHODE**  
[72] BOUCHARD, LUC, CA  
[71] BOUCHARD, LUC, CA  
[22] 2023-07-20  
[41] 2024-01-20  
[30] US (17/813,787) 2022-07-20

[21] **3,209,565**  
[13] A1

[51] **Int.Cl. G08B 13/186 (2006.01) G08B 29/24 (2006.01)**  
[25] EN  
[54] **INTRUSION DETECTION ALGORITHM WITH WIND REJECTION HEURISTIC**  
[54] **ALGORITHME DE DETECTION DES INTRUSIONS AVEC HEURISTIQUE DE REJET DU VENT**  
[72] MURPHY, CARY R., US  
[72] GOERTZEN, DANIEL M., CA  
[72] BRIDGES, MARK K., US  
[71] NETWORK INTEGRITY SYSTEMS, INC., US  
[22] 2023-08-17  
[41] 2024-01-15  
[30] US (17890359) 2022-08-18

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January 14, 2024 to January 20, 2024**

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[21] **3,210,874**

[13] A1

[51] **Int.Cl. E01F 9/654 (2016.01) E01F  
9/688 (2016.01)**

[25] EN

[54] **TRAFFIC BARREL SAFE  
STACKING SYSTEM**

[54] **SYSTEME D~EMPILEMENT  
SECURITAIRE DES CONES  
ROUTIERS**

[72] MACROPOULOS, MICHAEL PAUL,  
US

[71] MACROPOULOS, MICHAEL PAUL,  
US

[22] 2023-09-01

[41] 2024-01-19

[30] US (17/868,097) 2022-07-19

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[21] **3,220,144**

[13] A1

[51] **Int.Cl. B42D 25/27 (2014.01) B42D  
25/30 (2014.01)**

[25] EN

[54] **SCRATCH-OFF DOCUMENT  
ALTERING AND COPYING  
COUNTERMEASURES**

[54] **CONTRE-MESURES CONTRE  
L~ALTERATION ET LA COPIE DE  
DOCUMENTS A L~AIDE D~UN  
REVETEMENT A GRATTER**

[72] BRANDIMORE, JOSEPH, US

[72] IRWIN, KENNETH E., JR., US

[72] PETTIS, AMY KATHLEEN, US

[71] IGT GLOBAL SOLUTIONS  
CORPORATION, US

[22] 2023-11-15

[41] 2024-01-19

[30] US (18/065295) 2022-12-13

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[21] <b>3,172,568</b> [13] A1	[21] <b>3,178,085</b> [13] A1	[21] <b>3,178,096</b> [13] A1
[51] <b>Int.Cl. H01Q 15/16 (2006.01)</b> [25] EN [54] <b>ANTENNA, ELECTRONIC APPARATUS, AND METHOD OF MANUFACTURING AN ANTENNA</b> [54] <b>ANTENNE, APPAREIL ELECTRONIQUE ET METHODE DE FABRICATION D'UNE ANTENNE</b> [72] SEZAI, TOSHIHIRO, JP [71] JAPAN AEROSPACE EXPLORATION AGENCY, JP [85] 2022-09-21 [86] 2022-03-10 (PCT/JP2022/010606) [87] (WO2022/249644) [30] JP (2021-089062) 2021-05-27	[51] <b>Int.Cl. C07D 403/12 (2006.01) A61K 31/517 (2006.01) A61K 31/7064 (2006.01) A61P 37/06 (2006.01) C07H 17/00 (2006.01)</b> [25] EN [54] <b>BELUMOSUDIL METABOLITES AND USES THEREOF IN THE TREATMENT OF CHRONIC GRAFT-VERSUS-HOST DISEASE</b> [54] <b>METABOLITES DE BELUMOSUDIL ET UTILISATIONS DANS LE TRAITEMENT DE LA MALADIE DU GREFFON CONTRE L'HOTE CHRONIQUE</b> [72] SCHUELLER, OLIVER, US [72] PATEL, JEEGAR, US [71] KADMON CORPORATION, LLC, US [85] 2022-09-30 [86] 2022-07-14 (PCT/US2022/037210) [87] (3178085)	[51] <b>Int.Cl. A61K 31/517 (2006.01) A61K 31/185 (2006.01) A61P 37/06 (2006.01)</b> [25] EN [54] <b>METHODS OF ADMINISTERING BELUMOSUDIL FOR TREATMENT OF CHRONIC GRAFT VERSUS HOST DISEASE</b> [54] <b>METHODES D'ADMINISTRATION DE BELUMOSUDIL POUR LE TRAITEMENT DE LA MALADIE DU GREFFON CONTRE L'HOTE CHRONIQUE</b> [72] EIZNHAMER, DAVID, US [72] KRENZ, HEIDI, US [71] KADMON CORPORATION, LLC, US [85] 2022-09-30 [86] 2022-07-14 (PCT/US2022/037207) [87] (3178096)
[21] <b>3,178,077</b> [13] A1	[21] <b>3,178,086</b> [13] A1	[21] <b>3,187,933</b> [13] A1
[51] <b>Int.Cl. A61K 31/517 (2006.01) A61K 31/4439 (2006.01) A61K 31/496 (2006.01) A61P 37/06 (2006.01)</b> [25] EN [54] <b>METHODS OF ADMINISTERING BELUMOSUDIL IN COMBINATION WITH CYP3A INDUCERS AND/OR PROTON PUMP INHIBITORS</b> [54] <b>METHODES D'ADMINISTRATION DE BELUMOSUDIL EN COMBINAISON AVEC DES INDUCTEURS DE CYP3A ET/OU DES INHIBITEURS DE LA POMPE A PROTONS</b> [72] SCHUELLER, OLIVER, US [72] PATEL, JEEGAR, US [71] KADMON CORPORATION, LLC, US [85] 2022-09-30 [86] 2022-07-14 (PCT/US2022/037200) [87] (3178077)	[51] <b>Int.Cl. A61K 31/517 (2006.01) A61K 31/185 (2006.01) A61P 37/06 (2006.01)</b> [25] EN [54] <b>METHODS OF ADMINISTERING BELUMOSUDIL FOR TREATMENT OF CHRONIC GRAFT VERSUS HOST DISEASE IN PATIENT SUBPOPULATIONS</b> [54] <b>METHODES D'ADMINISTRATION DE BELUMOSUDIL POUR LE TRAITEMENT DE LA MALADIE DU GREFFON CONTRE L'HOTE CHRONIQUE CHEZ DES SOUS-POPULATIONS DE PATIENTS</b> [72] PATEL, JEEGAR, US [71] KADMON CORPORATION, LLC, US [85] 2022-09-30 [86] 2022-07-14 (PCT/US2022/037192) [87] (3178086)	[51] <b>Int.Cl. B65D 25/00 (2006.01) B65D 90/00 (2006.01)</b> [25] EN [54] <b>CONTAINER WITH INDEPENDENT REINFORCEMENT FRAME</b> [54] <b>CONTENANT AVEC CADRE DE RENFORCEMENT INDEPENDANT</b> [72] HERRERO PEREZ RIOJA, JUAN ANTONIO, MX [71] HERRERO PEREZ RIOJA, JUAN ANTONIO, MX [85] 2023-01-31 [86] 2022-07-20 (PCT/MX2022/050065) [87] (3187933)

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[21] **3,217,192**  
[13] A1

[51] **Int.Cl. C08G 18/32 (2006.01) C08G 18/18 (2006.01) C08G 18/22 (2006.01) C08G 18/24 (2006.01) C08G 18/72 (2006.01)**

[25] EN

[54] **POLYURETHANE COMPOSITIONS HAVING IMPROVED FORCE RETENTION AND MOISTURE RESISTANCE**

[54] **COMPOSITIONS DE POLYURETHANE DOTEES D'UNE RETENTION DE FORCE ET D'UNE RESISTANCE A L'HUMIDITE AMELIOREES**

[72] STEWART, RAY F., US  
[72] LAHLOUH, JOHN, US  
[72] HUANG, DIYUN, US  
[71] BAY MATERIALS, LLC, US  
[85] 2023-10-18  
[86] 2022-04-19 (PCT/US2022/025306)  
[87] (WO2022/225900)  
[30] US (63/176,439) 2021-04-19

[21] **3,224,462**  
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01) A61K 51/08 (2006.01) C07F 7/12 (2006.01)**

[25] EN

[54] **LIGAND COMPOUNDS COMPRISING A CHELATING GROUP AS A BRIDGING GROUP**

[54] **COMPOSES LIGANDS COMPRENANT UN GROUPE CHELATEUR EN TANT QUE GROUPE PONTANT**

[72] PARZINGER, MARA, DE  
[72] WENDLINGER, LENNARD, DE  
[72] WESTER, HANS-JURGEN, DE  
[71] TECHNISCHE UNIVERSITAT MUNCHEN, DE  
[85] 2023-12-28  
[86] 2022-08-04 (PCT/EP2022/071964)  
[87] (WO2023/012282)  
[30] EP (21189855.6) 2021-08-05

[21] **3,224,836**  
[13] A1

[51] **Int.Cl. C11D 3/00 (2006.01) C11D 3/30 (2006.01) C11D 3/33 (2006.01)**

[25] EN

[54] **LIQUID LAUNDRY DETERGENT FORMULATION**

[54] **FORMULATION DE DETERGENT A LESSIVE LIQUIDE**

[72] IZMITLI, ASLIN, US  
[72] MITCHELL, MICHAEL C., US  
[72] PULUKKODY, RANDARA, US  
[72] SATHIOSATHAM, MUHUNTHAN, US  
[72] TULCHINSKY, MICHAEL L., US  
[72] WASSERMAN, ERIC, US  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[71] ROHM AND HAAS COMPANY, US  
[85] 2024-01-03  
[86] 2022-07-13 (PCT/US2022/036887)  
[87] (WO2023/287836)  
[30] US (63/222,451) 2021-07-16

[21] **3,225,023**  
[13] A1

[51] **Int.Cl. A63B 43/00 (2006.01) A63B 67/14 (2006.01) G01P 7/00 (2006.01) G08B 3/10 (2006.01) G08B 23/00 (2006.01)**

[25] EN

[54] **PROGRAMMABLE CONTEXT AWARE ALARM DEVICES AND METHODS**

[54] **DISPOSITIFS ET PROCEDES D'ALARME SENSIBLES AU CONTEXTE PROGRAMMABLES**

[72] KABKI, FREDERIC, CA  
[72] VEZEAU, STEVE, CA  
[72] LECLERC, FELIX-ANTOINE, CA  
[72] BOUKADOUM, MOUNIR, CA  
[72] BOLDUC, JASMIN, CA  
[72] GUIMOND, RAPHAEL, CA  
[72] CHAMPAGNE, JESSICA, CA  
[71] KABKI, FREDERIC, CA  
[71] VEZEAU, STEVE, CA  
[71] LECLERC, FELIX-ANTOINE, CA  
[71] BOUKADOUM, MOUNIR, CA  
[71] BOLDUC, JASMIN, CA  
[71] GUIMOND, RAPHAEL, CA  
[71] CHAMPAGNE, JESSICA, CA  
[85] 2024-01-05  
[86] 2022-07-08 (PCT/CA2022/000037)  
[87] (WO2023/279195)  
[30] US (63/219,437) 2021-07-08

[21] **3,225,029**  
[13] A1

[51] **Int.Cl. B60P 1/16 (2006.01) F15B 11/044 (2006.01) F15B 21/08 (2006.01)**

[25] EN

[54] **HOIST SYSTEM COUNTERBALANCE VALVE SIGNAL SHUTOFF**

[54] **ARRET DE SIGNAL DE VANNE DE CONTREPOIDS DE SYSTEME DE TREUIL**

[72] CONNOLLY, JOHN R., US  
[72] JUNAIDI, ALEEM, US  
[72] WEN, JUN, US  
[71] CATERPILLAR INC., US  
[85] 2024-01-05  
[86] 2022-07-15 (PCT/US2022/037276)  
[87] (WO2023/003769)  
[30] US (17/379,745) 2021-07-19

[21] **3,225,030**  
[13] A1

[51] **Int.Cl. G07F 13/02 (2006.01) B01F 33/84 (2022.01) G07F 13/06 (2006.01)**

[25] EN

[54] **SYSTEM FOR AUTOMATED COLOR CUSTOMIZATION OF BEVERAGES**

[54] **SYSTEME DE PERSONNALISATION AUTOMATISEE DE COULEUR DE BOISSONS**

[72] MJELDE, JENNICA, US  
[72] VENKATAKRISHNAN, NATARAJAN, US  
[71] STARBUCKS CORPORATION D/B/A STARBUCKS COFFEE COMPANY, US  
[85] 2024-01-05  
[86] 2022-07-19 (PCT/US2022/037570)  
[87] (WO2023/003864)  
[30] US (63/224,331) 2021-07-21



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[21] **3,225,047**  
[13] A1

[51] **Int.Cl. B01D 53/22 (2006.01) B01D 67/00 (2006.01) B01D 71/02 (2006.01)**

[25] EN

[54] **METHODS FOR MANUFACTURING HOLLOW FIBER CARBON MEMBRANES**

[54] **PROCEDES DE FABRICATION DE MEMBRANES DE CARBONE A FIBRES CREUSES**

[72] ROY, ABHISHEK, US

[72] FITZGIBBONS, THOMAS C., US

[72] TANG, LI, US

[72] VENNA, SURENDAR R., US

[72] FLICK, DERRICK W., US

[72] MONTANEZ, NIKKI J., US

[72] MCCURRY, HALI J., US

[72] HEARD, JAMES B., US

[72] FISH, BARRY B., US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2024-01-05

[86] 2022-07-21 (PCT/US2022/037843)

[87] (WO2023/004024)

[30] US (63/224,085) 2021-07-21

[21] **3,225,048**  
[13] A1

[51] **Int.Cl. F04B 35/01 (2006.01)**

[25] EN

[54] **A RECIPROCATING COMPRESSOR WITH A PRESSURE-DROP CHAMBER AND METHOD**

[54] **COMPRESSEUR ALTERNATIF DOTE D'UNE CHAMBRE DE CHUTE DE PRESSION ET PROCEDE ASSOCIE**

[72] BASSANI, SIMONE, IT

[72] CHIESI, FRANCESCO, IT

[72] BATINI, NICCOLO', IT

[72] BARGIACCHI, MASSIMO, IT

[72] TENZE, ANDREA, IT

[72] CANGIOLI, FRANCESCO, IT

[71] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT

[85] 2024-01-05

[86] 2022-07-15 (PCT/EP2022/025331)

[87] (WO2023/001405)

[30] IT (102021000019502) 2021-07-22

[21] **3,225,050**  
[13] A1

[51] **Int.Cl. E21B 21/10 (2006.01) F16K 21/04 (2006.01)**

[25] EN

[54] **A VALVE AND A METHOD OF CONTROLLING FLUID FLOW BETWEEN A FLUID SUPPLYING DEVICE AND A FLUID RECEIVING DEVICE**

[54] **VANNE ET PROCEDE DE COMMANDE D'ECOULEMENT DE FLUIDE ENTRE UN DISPOSITIF D'ALIMENTATION EN FLUIDE ET UN DISPOSITIF DE RECEPTION DE FLUIDE**

[72] RISETH, ROAR FORLAND, NO

[71] MH TECH AS, NO

[85] 2024-01-05

[86] 2022-07-05 (PCT/NO2022/050165)

[87] (WO2023/282766)

[30] NO (20210891) 2021-07-09

[21] **3,225,054**  
[13] A1

[51] **Int.Cl. C07H 19/048 (2006.01) C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61P 1/16 (2006.01)**

[25] EN

[54] **RNAI AGENT TARGETING MARC1 GENE, AND USE THEREOF**

[54] **AGENT ARNI CIBLANT LE GENE MARC1 ET SON UTILISATION**

[72] HONG, SUN WOO, KR

[72] PARK, JUNE HYUN, KR

[72] CHOE, JEONG YONG, KR

[71] OLIX PHARMACEUTICALS, INC., KR

[85] 2024-01-05

[86] 2022-07-08 (PCT/KR2022/009984)

[87] (WO2023/282704)

[30] KR (10-2021-0089864) 2021-07-08

[21] **3,225,056**  
[13] A1

[51] **Int.Cl. B28B 11/24 (2006.01) C01B 32/956 (2017.01) C04B 35/524 (2006.01) C04B 35/565 (2006.01) C04B 35/571 (2006.01) B01J 2/06 (2006.01)**

[25] EN

[54] **SIC P-TYPE, AND LOW RESISTIVITY, CRYSTALS, BOULES, WAFERS AND DEVICES, AND METHODS OF MAKING THE SAME**

[54] **CRISTAUX, BOULES, PLAQUETTES ET DISPOSITIFS DE TYPE SIC P ET DE FAIBLE RESISTIVITE, ET PROCEDES POUR LES FABRIQUER**

[72] HANSEN, DARREN, US

[72] DUKES, DOUGLAS, US

[72] LOBODA, MARK, US

[72] LAND, MARK, US

[72] ROJO, JUAN CARLOS, US

[72] TORRES, VICTOR, US

[71] PALLIDUS, INC., US

[85] 2024-01-05

[86] 2022-07-09 (PCT/US2022/036595)

[87] (WO2023/283471)

[30] US (63/220,132) 2021-07-09

[30] US (63/337,088) 2022-04-30



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[21] <b>3,225,060</b> [13] A1	[21] <b>3,225,061</b> [13] A1	[21] <b>3,225,063</b> [13] A1
[51] <b>Int.Cl. B65B 29/02 (2006.01) B31F 1/36 (2006.01) B65B 9/04 (2006.01) B65B 47/04 (2006.01) B65B 57/08 (2006.01) B65B 61/06 (2006.01) B65B 63/02 (2006.01) G01N 22/04 (2006.01)</b>	[51] <b>Int.Cl. C01B 32/963 (2017.01) H01L 21/02 (2006.01)</b>	[51] <b>Int.Cl. F17D 5/02 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>MANUFACTURING LINE FOR MANUFACTURING A COMPOSTABLE POD FOR BREWING PRODUCTS AND SYSTEM FOR MEASURING AND REGULATING THE RELATIVE HUMIDITY OF A BIODEGRADABLE PAPER-BASED MATERIAL</b>	[54] <b>SIC P-TYPE, AND LOW RESISTIVITY, CRYSTALS, BOULES, WAFERS AND DEVICES, AND METHODS OF MAKING THE SAME</b>	[54] <b>SYSTEM AND METHOD FOR LEAK CONTAINMENT, LEAK DETECTION, AND CORROSION MITIGATION IN A PIPELINE ENVIRONMENT</b>
[54] <b>CHAINE DE FABRICATION POUR FABRIQUER UNE DOSETTE COMPOSTABLE POUR DES PRODUITS D'INFUSION ET SYSTEME DE MESURE ET DE REGULATION DE L'HUMIDITE RELATIVE D'UN MATERIAU A BASE DE PAPIER BIODEGRADABL</b>	[54] <b>DISPOSITIFS, PLAQUETTES, BOULES ET CRISTAUX DE SIC DE TYPE P ET A FAIBLE RESISTIVITE ET LEURS PROCEDES DE FABRICATION</b>	[54] <b>SYSTEME ET PROCEDE POUR CONTENIR UNE FUITE, DETECTER UNE FUITE ET ATTENUER LA CORROSION DANS UN ENVIRONNEMENT DE PIPELINE</b>
[72] WIPAECHTIGER, HANS, CH	[72] HANSEN, DARREN, US	[72] YOUNG, LAWRENCE WILLIAM, CA
[72] MISSOUM, KARIM, FR	[72] DUKES, DOUGLAS, US	[71] TOTAL CONTAINMENT INC., CA
[71] SOCIETE DES PRODUITS NESTLE S.A., CH	[72] LOBODA, MARK, US	[85] 2024-01-05
[85] 2024-01-05	[72] LAND, MARK, US	[86] 2022-07-08 (PCT/US2022/036433)
[86] 2022-07-27 (PCT/EP2022/071016)	[72] ROJO, JUAN CARLOS, US	[87] (WO2023/283390)
[87] (WO2023/006791)	[72] TORRES, VICTOR, US	[30] US (17/371,167) 2021-07-09
[30] EP (21188641.1) 2021-07-30	[71] PALLIDUS, INC., US	
	[85] 2024-01-05	[21] <b>3,225,064</b> [13] A1
	[86] 2022-07-09 (PCT/US2022/036597)	[51] <b>Int.Cl. C07K 14/005 (2006.01) C12N 7/00 (2006.01) C12N 15/86 (2006.01) C07K 14/08 (2006.01) C12N 15/90 (2006.01)</b>
	[87] (WO2023/283472)	[25] EN
	[30] US (63/220,132) 2021-07-09	[54] <b>MODIFIED EASTERN EQUINE ENCEPHALITIS VIRUSES, SELF-REPLICATING RNA CONSTRUCTS, AND USES THEREOF</b>
	[30] US (63/337,088) 2022-04-30	[54] <b>VIRUS DE L'ENCEPHALITE EQUINE DE L'EST MODIFIES, CONSTRUCTIONS D'ARN A AUTOREPLICATION ET UTILISATIONS ASSOCIEES</b>
[21] <b>3,225,062</b> [13] A1		[72] WANG, NATHANIEL STEPHEN, US
[51] <b>Int.Cl. A61K 9/51 (2006.01) B82Y 5/00 (2011.01) A61P 35/00 (2006.01)</b>	[51] <b>Int.Cl. A61K 9/51 (2006.01) B82Y 5/00 (2011.01) A61P 35/00 (2006.01)</b>	[72] MIYAKE-STONER, SHIGEKI JOSEPH, US
[25] EN	[25] EN	[72] ALIAHMAD, PARINAZ, US
[54] <b>NANOCONSTRUCTS AND NANOPARTICLE-MEDIATED DELIVERY OF IMMUNOGENIC CELL DEATH INDUCERS FOR ENHANCING CANCER IMMUNOTHERAPY</b>	[54] <b>NANOCONSTRUCTIONS ET ADMINISTRATION MEDIEE PAR DES NANOPARTICULES D'INDUCTEURS DE MORT CELLULAIRE IMMUNOGENES POUR AMELIORER L'IMMUNOTHERAPIE ANTICANCEREUSE</b>	[71] REPLICATE BIOSCIENCE, INC., US
[54] <b>NANOCONSTRUCTIONS ET ADMINISTRATION MEDIEE PAR DES NANOPARTICULES D'INDUCTEURS DE MORT CELLULAIRE IMMUNOGENES POUR AMELIORER L'IMMUNOTHERAPIE ANTICANCEREUSE</b>	[54] <b>NANOCONSTRUCTIONS ET ADMINISTRATION MEDIEE PAR DES NANOPARTICULES D'INDUCTEURS DE MORT CELLULAIRE IMMUNOGENES POUR AMELIORER L'IMMUNOTHERAPIE ANTICANCEREUSE</b>	[85] 2024-01-05
[72] YEO, YOON, US	[72] YEO, YOON, US	[86] 2022-07-08 (PCT/US2022/073563)
[72] KWON, SOONBUM, US	[72] KWON, SOONBUM, US	[87] (WO2023/283641)
[71] PURDUE RESEARCH FOUNDATION, US	[71] PURDUE RESEARCH FOUNDATION, US	[30] US (63/220,139) 2021-07-09
[85] 2024-01-05	[85] 2024-01-05	
[86] 2022-07-20 (PCT/US2022/037727)	[86] 2022-07-20 (PCT/US2022/037727)	
[87] (WO2023/003957)	[87] (WO2023/003957)	
[30] US (63/224,009) 2021-07-21	[30] US (63/224,009) 2021-07-21	

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[21] **3,225,065**  
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 9/48 (2006.01) A61K 31/455 (2006.01) A61P 9/10 (2006.01)**

[25] EN

[54] **MODIFIED RELEASE NICORANDIL COMPOUND FORMULATIONS**

[54] **FORMULATIONS DE COMPOSES DE NICORANDIL A LIBERATION MODIFIEE**

[72] VAN DEL HEUVEL, DENNY JOHAN MARIJN, NL

[72] PLATTEEUW, JOHANNES JAN, NL

[72] TIGOR, UWE, US

[72] CHABOWSKI, DAWID SEBASTIAN, PL

[71] AUXILIUS PHARMA SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, PL

[85] 2024-01-05

[86] 2022-07-11 (PCT/IB2022/056398)

[87] (WO2023/285952)

[30] PL (PL438438) 2021-07-10

[21] **3,225,066**  
[13] A1

[51] **Int.Cl. C01B 32/963 (2017.01) H01L 21/02 (2006.01)**

[25] EN

[54] **SIC P-TYPE, AND LOW RESISTIVITY, CRYSTALS, BOULES, WAFERS AND DEVICES, AND METHODS OF MAKING THE SAME**

[54] **CRISTAUX, BILLES, TRANCHES SIC DE TYPE P ET DE FAIBLE RESISTIVITE ET LEURS DISPOSITIFS ET PROCEDES DE FABRICATION**

[72] HANSEN, DARREN, US

[72] DUKES, DOUGLAS, US

[72] LOBODA, MARK, US

[72] LAND, MARK, US

[72] ROJO, JUAN CARLOS, US

[72] TORRES, VICTOR, US

[71] PALLIDUS, INC., US

[85] 2024-01-05

[86] 2022-07-09 (PCT/US2022/036606)

[87] (WO2023/283474)

[30] US (63/220,132) 2021-07-09

[30] US (63/337,088) 2022-04-30

[21] **3,225,068**  
[13] A1

[51] **Int.Cl. C07D 413/02 (2006.01) A61P 35/04 (2006.01) C07D 413/06 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **COMPOUND SERVING AS KAT6 INHIBITOR**

[54] **COMPOSE SERVANT D'INHIBITEUR DE KAT6**

[72] ZHANG, HANCHENG, CN

[72] JIA, WEI, CN

[72] CAI, CONGCONG, CN

[71] HANGZHOU INNOGATE PHARMA CO., LTD., CN

[85] 2024-01-05

[86] 2022-07-05 (PCT/CN2022/104005)

[87] (WO2023/280182)

[30] CN (202110758732.7) 2021-07-05

[30] CN (202210043389.2) 2022-01-14

[30] CN (202210190640.8) 2022-02-28

[21] **3,225,070**  
[13] A1

[51] **Int.Cl. A23L 29/256 (2016.01) A24B 15/16 (2020.01) A24B 15/28 (2006.01) A24B 15/30 (2006.01)**

[25] EN

[54] **EXTRUDED STRUCTURES**

[54] **STRUCTURES EXTRUDEES**

[72] CLARK, CAROLINE W. H., US

[72] MONSALUD, JR. LUIS, GB

[72] COMER, TIFFANY, GB

[72] MUA, JOHN-PAUL, GB

[72] CRUMP, BRIDGET B., GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2024-01-05

[86] 2022-07-08 (PCT/IB2022/056348)

[87] (WO2023/281469)

[30] US (63/220,213) 2021-07-09

[21] **3,225,071**  
[13] A1

[51] **Int.Cl. B63H 1/12 (2006.01)**

[25] EN

[54] **FLUID PROPULSION SYSTEM**

[54] **SYSTEME DE PROPULSION DE FLUIDE**

[72] PELL, CHARLES ANTHONY, US

[72] CRENSHAW, HUGH CHARLES, US

[72] MOODY, RYAN, US

[71] 3SILK, INC., US

[85] 2024-01-05

[86] 2022-07-07 (PCT/US2022/073492)

[87] (WO2023/283590)

[30] US (63/259,316) 2021-07-07

[30] US (17/810,892) 2022-07-06

[21] **3,225,072**  
[13] A1

[51] **Int.Cl. B07C 3/06 (2006.01) B07C 5/36 (2006.01) B65G 47/46 (2006.01) B65G 47/84 (2006.01)**

[25] EN

[54] **TOLERANCE ADJUSTER AND WEAR DEVICE FOR SORTATION SYSTEM**

[54] **DISPOSITIF DE REGLAGE DE TOLERANCE ET DISPOSITIF D'USURE POUR SYSTEME DE TRI**

[72] DEVRIES, JEFFREY S., US

[72] TRIESENBERG, THOMAS H. (DECEASED), XX

[71] DEMATIC CORP., US

[85] 2024-01-05

[86] 2022-07-29 (PCT/IB2022/057095)

[87] (WO2023/007469)

[30] US (63/226,838) 2021-07-29

[21] **3,225,075**  
[13] A1

[51] **Int.Cl. H01M 10/613 (2014.01) C09K 5/10 (2006.01) C09K 5/20 (2006.01) C23F 11/18 (2006.01)**

[25] EN

[54] **NOVEL COOLANT WITH LOW ELECTRICAL CONDUCTIVITY**

[54] **NOUVEAU REFRIGERANT A FAIBLE CONDUCTIVITE ELECTRIQUE**

[72] HIROSUE, MASAYUKI, DE

[72] MALKOWSKY, ITAMAR MICHAEL, DE

[72] NITZSCHKE, UWE, DE

[72] SCHINDLER, NINA, DE

[71] BASF SE, DE

[85] 2024-01-05

[86] 2022-06-29 (PCT/EP2022/067921)

[87] (WO2023/280659)

[30] EP (21184145.7) 2021-07-07

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[21] **3,225,076**  
[13] A1

[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/04 (2006.01) A61M 16/08 (2006.01) A61M 16/20 (2006.01)**

[25] EN

[54] **HOSPITAL DEVICE FOR STIMULATING TRACHEOBRONCHIAL AIR**

[54] **DISPOSITIF HOSPITALIER DESTINE A STIMULER L'AIR TRACHEOBRONCHIQUE**

[72] MITHALAL, ADRIEN, FR

[71] PHYSIO-ASSIST, FR

[85] 2024-01-05

[86] 2022-07-08 (PCT/EP2022/069206)

[87] (WO2023/281113)

[30] EP (21305962.9) 2021-07-09

[21] **3,225,077**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **METHODS OF TREATING NEUROLOGICAL DISEASES**

[54] **METHODES DE TRAITEMENT DE MALADIES NEUROLOGIQUES**

[72] LEUNG, SHUI-ON, CN

[72] CHONG, CHIHO, CN

[72] CHUANG, CHINGYI, CN

[71] SINOMAB BIOSCIENCE LIMITED, CN

[85] 2024-01-05

[86] 2022-07-12 (PCT/CN2022/105077)

[87] (WO2023/284710)

[30] US (63/221,261) 2021-07-13

[21] **3,225,079**  
[13] A1

[51] **Int.Cl. A61K 38/57 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **USING C1 ESTERASE INHIBITOR TO TREAT VIRAL INFECTION-RELATED SYMPTOMS**

[54] **UTILISATION D'UN INHIBITEUR DE C1 ESTERASE POUR TRAITER DES SYMPTOMES LIES A UNE INFECTION VIRALE**

[72] GIANNETTI, BRUNO, NL

[72] RELAN, ANURAG, NL

[72] MELAMED, ISAAC, NL

[71] PHARMING INTELLECTUAL PROPERTY BV, NL

[85] 2024-01-05

[86] 2022-07-07 (PCT/EP2022/068912)

[87] (WO2023/280981)

[30] EP (21184864.3) 2021-07-09

[30] US (63/220,208) 2021-07-09

[21] **3,225,080**  
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01)**

[25] EN

[54] **KCNV2 GENE THERAPY**

[54] **THERAPIE GENIQUE KCNV2**

[72] GEORGIADIS, ANASTASIOS, GB

[71] MEIRAGTX, UK II LIMITED, GB

[85] 2024-01-05

[86] 2022-07-13 (PCT/IB2022/056457)

[87] (WO2023/285986)

[30] US (63/221,879) 2021-07-14

[21] **3,225,081**  
[13] A1

[51] **Int.Cl. B07C 5/346 (2006.01) B02C 23/14 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PERFORMING INTELLIGENT SORTING BASED ON DYNAMIC ADJUSTMENT OF THRESHOLD**

[54] **PROCEDE ET SYSTEME DE TRI INTELLIGENT ET D'AJUSTEMENT DYNAMIQUE BASES SUR UN SEUIL**

[72] GUO, JIN, CN

[72] TONG, XIAOLEI, CN

[71] HUZHOU HONEST INTELLIGENT TECHNOLOGY CO., LTD, CN

[85] 2024-01-05

[86] 2022-07-08 (PCT/CN2022/104592)

[87] (WO2023/280299)

[30] CN (202110774603.7) 2021-07-08

[21] **3,225,082**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/90 (2006.01)**

[25] EN

[54] **ENZYMES WITH RUVVC DOMAINS**

[54] **ENZYMES AYANT DES DOMAINES RUVVC**

[72] THOMAS, BRIAN C., US

[72] BROWN, CHRISTOPHER, US

[72] KANTOR, ROSE, US

[72] DEVOTO, AUDRA, US

[72] BUTTERFIELD, CRISTINA, US

[72] ALEXANDER, LISA, US

[72] GOLTSMAN, DANIELA S.A., US

[72] LIU, JASON, US

[72] LAMOTHE, REBECCA, US

[72] ESPINOSA, DIEGO, US

[72] STORLIE, MEGHAN, US

[72] COST, GREG, US

[71] METAGENOMI, INC., US

[85] 2024-01-05

[86] 2022-08-29 (PCT/US2022/041755)

[87] (WO2023/028348)

[30] US (63/237,791) 2021-08-27

[30] US (63/245,629) 2021-09-17

[30] US (63/252,956) 2021-10-06

[30] US (63/282,909) 2021-11-24

[30] US (63/316,895) 2022-03-04

[30] US (63/319,681) 2022-03-14

[30] US (63/322,944) 2022-03-23

[30] US (63/369,858) 2022-07-29

[21] **3,225,084**  
[13] A1

[51] **Int.Cl. A61K 38/51 (2006.01) C12N 15/63 (2006.01) C12N 15/86 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **RETGC GENE THERAPY**

[54] **THERAPIE GENIQUE DE RETGC**

[72] GEORGIADIS, ANASTASIOS, GB

[71] MEIRAGTX, UK II LIMITED, GB

[85] 2024-01-05

[86] 2022-07-13 (PCT/IB2022/056458)

[87] (WO2023/285987)

[30] US (63/221,883) 2021-07-14

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[21] **3,225,085**  
[13] A1

[51] **Int.Cl. C04B 14/18 (2006.01) C04B 22/14 (2006.01) C04B 24/26 (2006.01) C04B 28/04 (2006.01)**

[25] EN

[54] **PERLITE-BASED CEMENTITIOUS MATERIALS, CONCRETE, AND RELATED TECHNIQUES**

[54] **MATERIAUX CIMENTERAIRES A BASE DE PERLITE, BETON ET TECHNIQUES ASSOCIEES**

[72] PIKE, SR. CLINTON W., US  
[71] VHSC, LTD,  
[71] PIKE, SR. CLINTON W., US  
[85] 2024-01-05  
[86] 2022-02-15 (PCT/US2022/016382)  
[87] (WO2023/282939)  
[30] US (63/220,392) 2021-07-09  
[30] US (63/244,447) 2021-09-15  
[30] US (63/308,566) 2022-02-10

[21] **3,225,092**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/55 (2006.01)**

[25] EN

[54] **CD8-BINDING POLYPEPTIDES AND USES THEREOF**

[54] **POLYPEPTIDES SE LIANT A CD8 ET LEURS UTILISATIONS**

[72] TIMMER, JOHN C., US  
[72] CRAGO, WILLIAM, US  
[72] SULZMAIER, FLORIAN, US  
[72] RASCON, LUCAS, US  
[72] ECKELMAN, BRENDAN P., US  
[71] INHIBRX, INC., US  
[85] 2024-01-05  
[86] 2022-07-19 (PCT/US2022/073877)  
[87] (WO2023/004304)  
[30] US (63/223,786) 2021-07-20  
[30] US (63/288,111) 2021-12-10

[21] **3,225,093**  
[13] A1

[51] **Int.Cl. G06V 40/20 (2022.01) G06T 7/73 (2017.01)**

[25] EN

[54] **AUTOMATIC BODY MOVEMENT RECOGNITION AND ASSOCIATION SYSTEM INCLUDING SMOOTHING, SEGMENTATION, SIMILARITY, POOLING, AND DYNAMIC MODELING**

[54] **SYSTEME AUTOMATIQUE DE RECONNAISSANCE ET D'ASSOCIATION DE MOUVEMENTS CORPORELS COMPRENANT UN LISSAGE, UNE SEGMENTATION, UNE SIMILARITE, UN REGROUPEMENT ET UNE MODELISATION DYNAMIQUE**

[72] ELWAZER, MOHAMED, US  
[72] MISHRA, VINAY, US  
[72] CHANDRASEKARAN, MUTHULAKSHMI, US  
[71] KINTRANS, INC., US  
[85] 2024-01-05  
[86] 2022-07-06 (PCT/US2022/036259)  
[87] (WO2023/283268)  
[30] US (63/218,652) 2021-07-06  
[30] US (17/858,051) 2022-07-05

[21] **3,225,097**  
[13] A1

[51] **Int.Cl. H04N 19/89 (2014.01)**

[25] EN

[54] **AUTOMATIC VISUAL MEDIA TRANSMISSION ERROR ASSESSMENT**

[54] **EVALUATION AUTOMATIQUE DES ERREURS DE TRANSMISSION DE CONTENU MULTIMEDIA VISUEL**

[72] WANG, JIHENG, CA  
[72] YEGANEH, HOJATOLLAH, CA  
[72] ZENG, KAI, CA  
[72] WANG, ZHOU, CA  
[71] SSIMWAVE INC., CA  
[85] 2024-01-05  
[86] 2022-06-21 (PCT/IB2022/055744)  
[87] (WO2023/281336)  
[30] US (63/219,040) 2021-07-07

[21] **3,225,100**  
[13] A1

[51] **Int.Cl. C07C 43/23 (2006.01) A61K 31/05 (2006.01) A61K 31/085 (2006.01) A61K 31/09 (2006.01) C07C 215/68 (2006.01) C07C 217/66 (2006.01) C07C 217/84 (2006.01) C07K 7/06 (2006.01)**

[25] EN

[54] **INHIBITORS AND USES THEREOF**

[54] **INHIBITEURS ET LEURS UTILISATIONS**

[72] SEONG, JAE YOUNG, KR  
[72] BYUN, YOUNGJOO, KR  
[72] KWAK, HOYUN, KR  
[72] OH, SITAEK, KR  
[72] LEE, MIN-HYEOK, KR  
[72] JEONG, YONGWOO, KR  
[72] HA, NUI, KR  
[72] CHO, EUN-HO, KR  
[72] LEE, SUHYUN, KR  
[72] LEE, SANG-MYEONG, KR  
[72] LEE, YERIM, KR  
[72] CHO, EUN BEE, KR  
[72] LEE, JAE KEUN, KR  
[72] KIM, HAN-BYUL, KR  
[72] KWON, SOON-GU, KR  
[71] NEURACLE SCIENCE CO., LTD, KR  
[85] 2024-01-05  
[86] 2022-07-08 (PCT/IB2022/056358)  
[87] (WO2023/281476)  
[30] US (63/219,683) 2021-07-08

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[21] **3,225,101**  
[13] A1

[51] **Int.Cl. C07D 487/22 (2006.01) B01J 20/26 (2006.01) C08G 12/08 (2006.01)**

[25] EN

[54] **A SMART COVALENT ORGANIC FRAMEWORK AND A PROCESS FOR CARBON DIOXIDE ADSORPTION INDUCED SWITCHABLE ANTIBACTERIAL ACTIVITY THEREFROM**

[54] **STRUCTURE ORGANIQUE COVALENTE INTELLIGENTE ET PROCEDE D'ACTIVITE ANTIBACTERIENNE COMMUTABLE INDUITE PAR ADSORPTION DE DIOXYDE DE CARBONE A PARTIR DE CELLE-CI**

[72] AYYAPPANPILLAI, AJAYAGHOSH, IN

[72] MAL, ARINDAM, IN

[72] MISHRA KUMAR, RAKESH, IN

[72] BHASKARAN NAIR SARASWATHY AMMA, DILEEP KUMAR, IN

[72] JACOB, JUBI, IN

[72] SHANKAR POOPANAL, SREEJITH, IN

[71] COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH AN INDIAN REGISTERED BO..., IN

[85] 2024-01-05

[86] 2023-01-06 (PCT/IN2023/050015)

[87] (WO2023/131977)

[30] IN (202211000696) 2022-01-06

[21] **3,225,103**  
[13] A1

[51] **Int.Cl. H04W 24/08 (2009.01) B64C 39/02 (2023.01) H04L 43/0852 (2022.01) H04L 43/091 (2022.01)**

[25] EN

[54] **DEVICE, METHOD AND SYSTEM FOR IMPROVED UAV OPERATIONS USING CONTINUOUS ANALYSIS OF TELEMETRY LINK INTEGRITY**

[54] **DISPOSITIF, PROCEDE ET SYSTEME POUR OPERATIONS D'UAV AMELIOREES A L'AIDE D'UNE ANALYSE CONTINUE DE L'INTEGRITE D'UNE LIAISON DE TELEMESURE**

[72] NAIK, TANMAY, US

[72] SIEGE, MAX, US

[71] CENSYS TECHNOLOGIES CORPORATION, US

[85] 2024-01-05

[86] 2022-07-01 (PCT/US2022/073368)

[87] (WO2023/283533)

[30] US (63/203,027) 2021-07-06

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[21] **3,225,105**  
[13] A1

[51] **Int.Cl. C07F 7/18 (2006.01) C07F 9/655 (2006.01)**

[25] EN

[54] **NEW SYNTHETIC AGONISTS OF TLR4 RECEPTOR**

[54] **NOUVEAUX AGONISTES SYNTHETIQUES DU RECEPTEUR TLR4**

[72] PERI, FRANCESCO, IT

[72] ROMERIO, ALESSIO, IT

[72] D'AMATO, SIMONA, IT

[71] UNIVERSITA DEGLI STUDI DI MILANO - BICOCCA, IT

[85] 2024-01-05

[86] 2022-07-19 (PCT/IB2022/056615)

[87] (WO2023/002354)

[30] IT (102021000019544) 2021-07-22

[30] IT (102022000006149) 2022-03-29

[21] **3,225,106**  
[13] A1

[51] **Int.Cl. F02P 3/04 (2006.01) F02P 3/055 (2006.01)**

[25] EN

[54] **SMART JUMPER CABLE AND JUMP START APPARATUS**

[54] **CABLE DE RACCORDEMENT INTELLIGENT ET APPAREIL DE DEMARRAGE**

[72] ZHU, CHUNYI, CN

[71] ZHU, CHUNYI, CN

[85] 2024-01-05

[86] 2022-07-06 (PCT/CN2022/104168)

[87] (WO2023/280225)

[30] CN (202110763309.6) 2021-07-06

[30] CN (202110763308.1) 2021-07-06

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[21] **3,225,107**  
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/6806 (2018.01) C12Q 1/6897 (2018.01)**

[25] EN

[54] **HIGH-THROUGHPUT CELLULAR MOLECULAR FUNCTION ASSAY SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE DOSAGE DE FONCTIONS MOLECULAIRES CELLULAIRES HAUT DEBIT**

[72] SCHILLER, MARTIN R., US

[72] GIACOLETTO, CHRISTOPHER, US

[71] HELIGENICS, INC., US

[85] 2024-01-05

[86] 2022-07-05 (PCT/US2022/073427)

[87] (WO2023/283547)

[30] US (63/218,429) 2021-07-05

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[21] **3,225,111**  
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12Q 1/6809 (2018.01) C07K 16/28 (2006.01)**

[25] EN

[54] **IDENTIFICATION OF COMMON TUMOR-SPECIFIC T CELL RECEPTORS AND ANTIGENS**

[54] **IDENTIFICATION DE RECEPTEURS DE LYMPHOCYTES T COMMUNS SPECIFIQUES D'UNE TUMEUR ET D'ANTIGENES**

[72] HAMMER, RUDOLF, DE

[72] HENNIG, STEFFEN, DE

[72] ADAM, PAUL, DE

[72] LUKOWSKI, SAMUEL, DE

[72] WEISMANN, DAVID, DE

[71] HS DIAGNOMICS GMBH, DE

[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE

[85] 2024-01-05

[86] 2022-07-15 (PCT/EP2022/069866)

[87] (WO2023/006450)

[30] EP (21185876.6) 2021-07-15

[21] **3,225,112**  
[13] A1

[51] **Int.Cl. A01N 43/80 (2006.01) B27K 3/50 (2006.01)**

[25] EN

[54] **A WOOD PRESERVATIVE COMPOSITION COMPRISING 4,5-DICHLORO-2-OCTYLISOTHIAZOL-3(2H)-ONE, A METHOD TREATING A WOOD SUBSTRATE THEREWITH, AND A WOOD PRODUCT PRODUCED THEREFROM**

[54] **COMPOSITION DE PRESERVATION DU BOIS COMPRENANT DU 4,5-DICHLORO-2-OCTYLISOTHIAZOL-3(2H)-ONE, PROCEDE DE TRAITEMENT D'UN SUBSTRAT DE BOIS AVEC CELLE-CI, ET PRODUIT DERIVE DE BOIS PRODUIT A PARTIR DE CEUX-C**

[72] KUANG, MIN, US

[72] ZHANG, JUN, US

[71] KOPPERS PERFORMANCE CHEMICALS INC., US

[85] 2024-01-05

[86] 2022-08-05 (PCT/US2022/074623)

[87] (WO2023/015305)

[30] US (63/229,817) 2021-08-05

[21] **3,225,113**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 39/00 (2006.01) A61K 39/215 (2006.01) A61K 39/295 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/005 (2006.01) C12N 7/01 (2006.01) C12N 15/33 (2006.01) C12N 15/86 (2006.01) C12N 15/861 (2006.01)**

[25] EN

[54] **VIRAL VACCINE**

[54] **VACCIN VIRAL**

[72] LICHTY, BRIAN, CA

[72] ILKOW, CAROLINA, CA

[72] XING, ZHOU, CA

[72] DOLOVICH, MYRNA, CA

[72] SMAILL, FIONA, CA

[72] STEPHENSON, KYLE, CA

[71] MCMASTER UNIVERSITY, CA

[71] TURNSTONE BIOLOGICS INC., CA

[71] OTTAWA HOSPITAL RESEARCH INSTITUTE, CA

[85] 2024-01-05

[86] 2022-07-15 (PCT/CA2022/051107)

[87] (WO2023/283745)

[30] US (63/222,723) 2021-07-16

[21] **3,225,114**  
[13] A1

[51] **Int.Cl. A01N 43/80 (2006.01) B27K 3/50 (2006.01)**

[25] EN

[54] **A WOOD PRESERVATIVE COMPOSITION COMPRISING 4,5-DICHLORO-2-OCTYLISOTHIAZOL-3(2H)-ONE, A METHOD TREATING A WOOD SUBSTRATE THEREWITH, AND A WOOD PRODUCT PRODUCED THEREFROM**

[54] **COMPOSITION DE PRESERVATION DU BOIS COMPRENANT DU 4,5-DICHLORO-2-OCTYLISOTHIAZOL-3(2H)-ONE, PROCEDE DE TRAITEMENT D'UN SUBSTRAT DE BOIS AVEC CELLE-CI, ET PRODUIT DU BOIS PRODUIT A PARTIR DE CELLE-C**

[72] KUANG, MIN, US

[72] ZHANG, JUN, US

[71] KOPPERS PERFORMANCE CHEMICALS INC., US

[85] 2024-01-05

[86] 2022-08-05 (PCT/US2022/074619)

[87] (WO2023/015302)

[30] US (63/229,817) 2021-08-05

[21] **3,225,115**  
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/0525 (2010.01) H01M 4/02 (2006.01) H01M 4/36 (2006.01)**

[25] EN

[54] **LITHIUM-RICH NICKEL MANGANESE OXIDE BATTERY CATHODE MATERIALS AND METHODS**

[54] **MATERIAUX DE CATHODE DE BATTERIE A OXYDE DE MANGANESE-NICKEL RICHE EN LITHIUM ET PROCEDES**

[72] WHITACRE, JAY, US

[72] BURKE, SVEN, US

[71] STRATUS MATERIALS INC., US

[85] 2024-01-05

[86] 2022-07-05 (PCT/US2022/036082)

[87] (WO2023/283168)

[30] US (63/218,756) 2021-07-06

[21] **3,225,116**  
[13] A1

[51] **Int.Cl. B65H 49/20 (2006.01) B65H 51/10 (2006.01) B65H 57/12 (2006.01) B65H 59/06 (2006.01)**

[25] EN

[54] **APPARATUS FOR SUBSEA REPAIR**

[54] **APPAREIL DE REPARATION SOUS-MARINE**

[72] FORD, ANDREW, AU

[72] TRELOAR, KELSEY, AU

[72] MILES, LEWIS BRADLEY, AU

[71] SOUTHERN OCEAN SUBSEA PTY LTD, AU

[85] 2024-01-05

[86] 2022-08-10 (PCT/AU2022/050874)

[87] (WO2023/015348)

[30] AU (2021902484) 2021-08-10

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[21] **3,225,117**  
[13] A1

[51] **Int.Cl. E21D 21/00 (2006.01)**  
[25] EN  
[54] **DOUBLE-WEDGE ROCK BOLT**  
[54] **BOULON D'ANCRAGE A DOUBLE COIN**

[72] RATAJ, MIETEK, AU  
[72] DARLINGTON, BRADLEY, AU  
[72] ROACH, WARREN, AU  
[71] SANDVIK MINING AND CONSTRUCTION AUSTRALIA (PRODUCTION/SUPPLY) PTY LTD, AU  
[85] 2024-01-05  
[86] 2022-08-01 (PCT/AU2022/050822)  
[87] (WO2023/010159)  
[30] EP (21189971.1) 2021-08-05

[21] **3,225,118**  
[13] A1

[51] **Int.Cl. A63F 3/00 (2006.01) A63F 9/24 (2006.01) A63F 13/00 (2014.01)**

[25] EN  
[54] **A GAMING HARDWARE DEVICE, A BOARD GAME KIT AND RELATED CONTROL METHOD**  
[54] **DISPOSITIF MATERIEL DE JEU, KIT DE JEU DE SOCIETE ET PROCEDE DE COMMANDE ASSOCIE**

[72] CURATTI, STEFANO, IT  
[72] MUNTONI, DANIELE, IT  
[71] SPRAMA GAME LABS S.R.L., IT  
[85] 2024-01-05  
[86] 2022-07-05 (PCT/IB2022/056192)  
[87] (WO2023/012545)  
[30] IT (102021000020747) 2021-08-02

[21] **3,225,119**  
[13] A1

[51] **Int.Cl. A42B 3/12 (2006.01) A41D 31/28 (2019.01) F41H 1/04 (2006.01)**

[25] EN  
[54] **CUSHION PADS AND RELATED SYSTEMS**  
[54] **COUSSINS D'AMORTISSEMENT ET SYSTEMES ASSOCIES**

[72] BOUTIN, GABRIEL, CA  
[72] BORDUAS, JONATHAN, CA  
[72] LE NAVEAUX, FRANCK, CA  
[72] BENOIT, DAVID, CA  
[72] LABERGE, MARTIN, CA  
[71] KOLLIDE, CA  
[85] 2024-01-05  
[86] 2022-07-08 (PCT/CA2022/051071)  
[87] (WO2023/279210)  
[30] US (63/203,134) 2021-07-09

[21] **3,225,120**  
[13] A1

[51] **Int.Cl. A61K 47/65 (2017.01) C07H 5/06 (2006.01) C07K 5/02 (2006.01) C07K 5/083 (2006.01) C07K 5/09 (2006.01)**

[25] EN  
[54] **LINKERS, DRUG LINKERS AND CONJUGATES THEREOF AND METHODS OF USING THE SAME**  
[54] **LIEURS, LIEURS DE MEDICAMENT, CONJUGUES DE CEUX-CI ET LEURS METHODES D'UTILISATION**

[72] SHANG, XIAO, US  
[72] LIU, HAIDONG, CN  
[72] GAVRILYUK, JULIA, US  
[72] ZHAO, BAITENG, US  
[72] HAN, TAE, US  
[71] PROFOUND BIO US CO., US  
[85] 2024-01-05  
[86] 2022-07-06 (PCT/CN2022/104174)  
[87] (WO2023/280227)  
[30] CN (PCT/CN2021/104618) 2021-07-06  
[30] CN (202210777240.7) 2022-07-04

[21] **3,225,121**  
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01)**

[25] EN  
[54] **ENGINEERED TARGETING COMPOSITIONS FOR ENDOTHELIAL CELLS OF THE CENTRAL NERVOUS SYSTEM VASCULATURE AND METHODS OF USE THEREOF**  
[54] **COMPOSITIONS DE CIBLAGE MODIFIEES POUR CELLULES ENDOTHELIALES DU SYSTEME VASCULAIRE DU SYSTEME NERVEUX CENTRAL ET LEURS PROCEDES D'UTILISATION**

[72] DEVERMAN, BENJAMIN, US  
[72] HUANG, QIN, US  
[72] CHAN, KEN, US  
[71] THE BROAD INSTITUTE, INC., US  
[85] 2024-01-05  
[86] 2022-07-20 (PCT/US2022/073968)  
[87] (WO2023/004367)  
[30] US (63/223,855) 2021-07-20  
[30] US (63/305,925) 2022-02-02

[21] **3,225,122**  
[13] A1

[51] **Int.Cl. F16B 13/08 (2006.01)**

[25] EN  
[54] **ANCHOR ASSEMBLY**  
[54] **ENSEMBLE D'ANCRAGE**

[72] WHITE, SAMUEL, GB  
[71] GRIPPLE LIMITED, GB  
[85] 2024-01-05  
[86] 2022-07-04 (PCT/IB2022/056167)  
[87] (WO2023/281374)  
[30] GB (2109800.9) 2021-07-07  
[30] GB (2209364.5) 2022-06-27

[21] **3,225,123**  
[13] A1

[51] **Int.Cl. C13B 10/00 (2011.01) F15C 3/00 (2006.01) F15C 3/02 (2006.01) F15C 3/04 (2006.01) G05D 16/00 (2006.01)**

[25] EN  
[54] **SYSTEM AND METHOD FOR CONTROLLING VACUUM IN A CLOSED FLUID SYSTEM**  
[54] **SYSTEME ET PROCEDE DE COMMANDE DE VIDE DANS UN SYSTEME FLUIDIQUE FERME**

[72] CHICOINE, MARTIN, CA  
[71] PLACEMENTS CHIC INC., CA  
[71] GESTION JOSERA INC., CA  
[85] 2024-01-05  
[86] 2021-07-06 (PCT/CA2021/050918)  
[87] (WO2023/279185)

[21] **3,225,124**  
[13] A1

[51] **Int.Cl. G07F 11/44 (2006.01)**

[25] EN  
[54] **AUTOMATIC PRODUCT DISPENSER**  
[54] **DISTRIBUTEUR AUTOMATIQUE DE PRODUITS**

[72] SADASHIV KAMBLE, RAHUL, IN  
[72] SINGH BHUTANI, GURMEET, IN  
[72] SINGH GULATI, AMANDEEP, IN  
[71] FRITO-LAY NORTH AMERICA, INC., US  
[85] 2024-01-05  
[86] 2022-07-05 (PCT/US2022/036088)  
[87] (WO2023/283173)  
[30] IN (202141030169) 2021-07-05

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[21] **3,225,125**  
[13] A1

[51] **Int.Cl. C07D 235/12 (2006.01) C07D 235/08 (2006.01) C07D 235/18 (2006.01) C07D 401/04 (2006.01) C23F 11/14 (2006.01)**

[25] EN

[54] **ONE-POT HOMOGENEOUS PROCESS FOR THE LARGE SCALE MANUFACTURE OF 2-SUBSTITUTED BENZIMIDAZOLES**

[54] **PROCEDE HOMOGENE MONOTOPE POUR LA FABRICATION A GRANDE ECHELLE DE BENZIMIDAZOLES 2-SUBSTITUES**

[72] CHERUKU, PRADEEP, US  
[72] GILLENWATER, PATRICIA, US  
[72] LEFLEMME, NICOLAS, US  
[72] MANTIS, ALEXANDER, US  
[72] MICHELS, JAMES JOSEPH, US  
[72] SRIRAM, SURESH R., US  
[71] ECOLAB USA INC., US  
[85] 2024-01-05  
[86] 2022-08-01 (PCT/US2022/039051)  
[87] (WO2023/014657)  
[30] US (63/228,401) 2021-08-02

[21] **3,225,126**  
[13] A1

[51] **Int.Cl. A01D 46/24 (2006.01) A01G 3/08 (2006.01)**

[25] EN

[54] **HARVESTING DEVICE**

[54] **DISPOSITIF DE RECOLTE**

[72] BARTH, RUUD, NL  
[72] VAN TUIJL, BART ADRIANUS JOHANNES, NL  
[71] SAIA HOLDING B.V., NL  
[85] 2024-01-05  
[86] 2022-07-08 (PCT/EP2022/069140)  
[87] (WO2023/281080)  
[30] NL (2028660) 2021-07-08

[21] **3,225,127**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 34/10 (2016.01) A61B 34/32 (2016.01) A61B 90/30 (2016.01) G16H 20/40 (2018.01) G16H 30/40 (2018.01) G16H 40/67 (2018.01) G16H 50/50 (2018.01) G16H 50/70 (2018.01) G06N 20/00 (2019.01) A61B 18/20 (2006.01) G01B 5/00 (2006.01)**

[25] EN

[54] **ROBOT-ASSISTED LASER OSTEOTOMY**

[54] **OSTEOTOMIE LASER ASSISTEE PAR ROBOT**

[72] KHAN, RIAZ JAN KJELL, AU  
[72] FICK, DANIEL PAUL, AU  
[72] ROBERTSON, WILLIAM BRETT, AU  
[72] CHIPPER, RICHARD, AU  
[71] AUSTRALIAN INSTITUTE OF ROBOTIC ORTHOPAEDICS PTY LTD, AU  
[85] 2024-01-05  
[86] 2022-07-08 (PCT/AU2022/050714)  
[87] (WO2023/279166)  
[30] AU (2021902093) 2021-07-08

[21] **3,225,128**  
[13] A1

[51] **Int.Cl. C02F 1/44 (2006.01) B01D 61/04 (2006.01) B01D 61/12 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR RECYCLING WATER**

[54] **SYSTEMES ET PROCEDES DE RECYCLAGE DE L'EAU**

[72] TALLY, WILLIAM, US  
[72] DUPUIS, JEFFREY, US  
[71] RENEW HEALTH LIMITED, IE  
[85] 2024-01-05  
[86] 2022-07-08 (PCT/US2022/036560)  
[87] (WO2023/283450)  
[30] US (63/219,422) 2021-07-08

[21] **3,225,129**  
[13] A1

[51] **Int.Cl. C08G 69/10 (2006.01) A61K 47/59 (2017.01) A61K 47/64 (2017.01) C08G 69/36 (2006.01) C12N 15/88 (2006.01)**

[25] EN

[54] **NON-COVALENT SHIELDING POLYMERS**

[54] **POLYMERES DE PROTECTION NON COVALENTS**

[72] FELIP LEON, CARLES, ES  
[72] DOLZ PEREZ, IRENE, ES  
[72] ESTEBAN PEREZ, SERGIO, ES  
[72] HERRERA MUNOZ, LIDIA, ES  
[72] NEBOT CARDA, VICENT JOSEP, ES  
[71] POLYPEPTIDE THERAPEUTIC SOLUTIONS, S.L., ES  
[85] 2024-01-05  
[86] 2022-07-22 (PCT/EP2022/070607)  
[87] (WO2023/002014)  
[30] EP (21382665.4) 2021-07-22

[21] **3,225,130**  
[13] A1

[51] **Int.Cl. E01F 1/00 (2006.01) E01F 9/553 (2016.01)**

[25] EN

[54] **EXPEDIENTLY INSTALLABLE TRAFFIC CALMING SYSTEM**

[54] **SYSTEME DE MODERATION DU TRAFIC POUVANT ETRE INSTALLE DE MANIERE OPPORTUNE**

[72] FANUCCI, JEROME PAUL, US  
[72] LANIK, ADAM BRICE, US  
[71] ZKXKZ, LLC, US  
[85] 2024-01-05  
[86] 2022-07-06 (PCT/US2022/036222)  
[87] (WO2023/283242)  
[30] US (17/368,888) 2021-07-07

[21] **3,225,131**  
[13] A1

[51] **Int.Cl. A47J 31/41 (2006.01) A47J 31/057 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR A BEVERAGE BREWING SYSTEM**

[54] **SYSTEMES ET PROCEDES POUR SYSTEME D'INFUSION DE BOISSONS**

[72] AYLIFFE, TED, US  
[71] COULEE COFFEE CO., US  
[85] 2024-01-05  
[86] 2022-07-08 (PCT/US2022/036588)  
[87] (WO2023/283465)  
[30] US (63/219,569) 2021-07-08



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[21] **3,225,132**  
[13] A1

[51] **Int.Cl. H02J 50/10 (2016.01) H02J 50/40 (2016.01)**

[25] EN

[54] **SYSTEM, METHOD AND APPARATUS FOR PROVIDING A GEARBOX EXPANSION CAP AND VALVE ASSEMBLY**

[54] **SYSTEME, PROCEDE ET APPAREIL DE PRODUCTION D'UN ENSEMBLE COUVERCLE ET SOUPE A EXPANSION DE BOITE DE TRANSMISSION**

[72] DILLON, CORY J., US

[71] VALMONT INDUSTRIES, INC., US

[85] 2024-01-05

[86] 2022-07-13 (PCT/US2022/036967)

[87] (WO2023/014474)

[30] US (63/230,197) 2021-08-06

[21] **3,225,133**  
[13] A1

[51] **Int.Cl. C07D 209/16 (2006.01) A61K 31/4045 (2006.01) A61K 31/4545 (2006.01) A61K 31/675 (2006.01) A61P 25/28 (2006.01) A61P 25/30 (2006.01) C07D 401/06 (2006.01) C07D 403/06 (2006.01) C07F 9/572 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **N,N-DIMETHYLTRYPTAMINE AND RELATED PSYCHEDLICS AND USES THEREOF**

[54] **N,N-DIMETHYLTRYPTAMINE ET COMPOSES PSYCHEDELIQUES APPARENTES ET LEURS UTILISATIONS**

[72] DUNCTON, MATTHEW ALEXANDER JAMES, US

[72] CLARK, SAM, US

[71] TERRAN BIOSCIENCES INC., US

[85] 2024-01-05

[86] 2022-07-07 (PCT/US2022/036396)

[87] (WO2023/283364)

[30] US (63/219,312) 2021-07-07

[30] US (63/276,516) 2021-11-05

[21] **3,225,134**  
[13] A1

[51] **Int.Cl. B01D 21/00 (2006.01) F41J 13/00 (2009.01) B03B 5/28 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR SEPARATING BULLETS FROM BACKSTOP MATERIAL**

[54] **SYSTEMES ET PROCEDES POUR SEPARER DES BALLE D'UN MATERIAU DE BARRIERE D'ARRET**

[72] SIKORA, DUSTIN, CA

[71] 1054610 BC LTD., CA

[85] 2024-01-05

[86] 2022-07-08 (PCT/IB2022/056353)

[87] (WO2023/281472)

[30] US (63/203,132) 2021-07-09

[21] **3,225,135**  
[13] A1

[51] **Int.Cl. A61K 31/165 (2006.01) A61K 31/36 (2006.01) C07D 317/58 (2006.01) C07D 317/48 (2006.01)**

[25] EN

[54] **3,4-METHYLENEDIOXYMETHAMPH ETAMINE AND RELATED PSYCHEDLICS AND USES THEREOF**

[54] **3,4-METHYLENEDIOXYMETHAMPH ETAMINE ET COMPOSES PSYCHEDELIQUES APPARENTES ET LEURS UTILISATIONS**

[72] CLARK, SAM, US

[72] DUNCTON, MATTHEW ALEXANDER JAMES, US

[71] TERRAN BIOSCIENCES INC., US

[85] 2024-01-05

[86] 2022-07-07 (PCT/US2022/036410)

[87] (WO2023/283373)

[30] US (63/219,322) 2021-07-07

[30] US (63/235,539) 2021-08-20

[30] US (63/281,488) 2021-11-19

[30] US (63/289,024) 2021-12-13

[30] US (63/335,108) 2022-04-26

[21] **3,225,157**  
[13] A1

[51] **Int.Cl. A45F 3/16 (2006.01) A47G 19/22 (2006.01) B65D 47/28 (2006.01) B65D 47/32 (2006.01)**

[25] EN

[54] **BEVERAGE CONTAINER LID WITH SELECTABLE DRINKING MODE**

[54] **COUVERCLE DE RECIPIENT DE BOISSON AVEC MODE DE CONSOMMATION SELECTIONNABLE**

[72] OMDAHL, JOHN R. II, US

[72] MEYERS, DAVID O., US

[72] BYTHEWAY, DAVID, US

[71] RUNWAY BLUE, LLC, US

[85] 2024-01-08

[86] 2022-07-08 (PCT/US2022/036503)

[87] (WO2023/287656)

[30] US (63/222,522) 2021-07-16

[21] **3,225,160**  
[13] A1

[51] **Int.Cl. F41G 3/04 (2006.01) G01S 19/18 (2010.01) G01S 19/41 (2010.01) F41F 3/073 (2006.01) F41G 3/14 (2006.01) F41G 7/34 (2006.01) F42B 10/64 (2006.01)**

[25] EN

[54] **MOBILE MUNITION ASSEMBLY AND APPARATUS, SYSTEMS, AND METHODS OF EXECUTING A MISSION FOR THE MOBILE MUNITION ASSEMBLY**

[54] **ENSEMBLE DE MUNITIONS MOBILE ET APPAREIL, SYSTEMES ET PROCEDES D'EXECUTION D'UNE MISSION POUR L'ENSEMBLE DE MUNITIONS MOBILE**

[72] CRYE, CALEB, US

[71] BLKBOX LLC, US

[85] 2024-01-08

[86] 2022-07-12 (PCT/US2022/036760)

[87] (WO2023/287743)

[30] US (63/220,656) 2021-07-12

[30] US (17/703,149) 2022-03-24

[30] US (17/703,157) 2022-03-24

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[21] **3,225,176**  
[13] A1

[51] **Int.Cl. A01K 63/04 (2006.01)**  
[25] EN  
[54] **HIGH EFFICIENCY WATER DISTRIBUTION PLATE DESIGN FOR ENHANCED OXYGEN TRANSFER**

[54] **CONCEPTION DE PLAQUE DE DISTRIBUTION D'EAU A HAUTE EFFICACITE POUR TRANSFERT D'OXYGENE AMELIORE**

[72] WATTEN, BARNABY JUDE, US  
[71] INNOVASEA SYSTEMS, INC., US  
[85] 2024-01-08  
[86] 2022-07-01 (PCT/US2022/035985)  
[87] (WO2023/283140)  
[30] US (63/219,113) 2021-07-07  
[30] US (63/227,105) 2021-07-29  
[30] US (17/549,957) 2021-12-14

[21] **3,225,182**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**  
[25] EN  
[54] **DEEP LEARNING FOR RAIN FADE PREDICTION IN SATELLITE COMMUNICATIONS**

[54] **APPRENTISSAGE PROFOND POUR LA PREDICTION D'AFFAIBLISSEMENT DE PLUIE DANS DES COMMUNICATIONS PAR SATELLITE**

[72] KHOSROWSHAHI, AIDIN FERDOWSI, US  
[72] WHITEFIELD, DAVID, US  
[72] TORRES, ROB, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2024-01-08  
[86] 2022-07-15 (PCT/US2022/073767)  
[87] (WO2023/004260)  
[30] US (63/203,351) 2021-07-19  
[30] US (17/453,258) 2021-11-02

[21] **3,225,183**  
[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 31/496 (2006.01) A61P 25/18 (2006.01) A61P 25/24 (2006.01)**  
[25] EN  
[54] **LONG-ACTING BREXPIPIRAZOLE PREPARATION FOR INJECTION AND PREPARATION METHOD THEREFOR**

[54] **PREPARATION DE BREXPIPIRAZOLE A LONGUE DUREE D'ACTION POUR INJECTION ET SON PROCEDE DE PREPARATION**

[72] LI, MING, CN  
[72] WEI, WEI, CN  
[72] SU, ZHENGXING, CN  
[72] YI, CONG, CN  
[72] LI, DAN, CN  
[72] LIANG, XIANGYONG, CN  
[72] KE, DUO, CN  
[72] ZHAO, DONG, CN  
[72] WANG, JINGYI, CN  
[72] LIU, SICHUAN, CN  
[71] SICHUAN KELUN PHARMACEUTICAL RESEARCH INSTITUTE CO. LTD., CN  
[85] 2024-01-08  
[86] 2022-08-29 (PCT/CN2022/115484)  
[87] (WO2023/036003)  
[30] CN (202111043276.4) 2021-09-07

[21] **3,225,185**  
[13] A1

[51] **Int.Cl. A61M 11/00 (2006.01) A61M 15/00 (2006.01) A61M 16/00 (2006.01)**  
[25] EN  
[54] **ACOUSTIC DOSE METER**

[54] **DOSEUR ACOUSTIQUE**

[72] MCCAIN, AISHA, US  
[72] SHEETS, ANNEMARIE, US  
[71] CREATE TO OVERCOME LLC, US  
[85] 2024-01-08  
[86] 2022-08-09 (PCT/US2022/039802)  
[87] (WO2023/018695)  
[30] US (63/231,215) 2021-08-09  
[30] US (17/883,939) 2022-08-09

[21] **3,225,197**  
[13] A1

[51] **Int.Cl. B28C 5/42 (2006.01) B62D 1/04 (2006.01) B65F 3/02 (2006.01) B65F 3/14 (2006.01) E02F 9/20 (2006.01) G05G 9/047 (2006.01)**  
[25] EN  
[54] **INTEGRATED OPERATOR CENTRIC CONTROLS**

[54] **COMMANDES CENTREES SUR UN OPERATEUR INTEGRE**

[72] WILDGRUBE, GRANT, US  
[72] ROCHOLL, JOSHUA D., US  
[72] CLIFTON, CODY D., US  
[72] KELLANDER, JOHN T., US  
[71] OSHKOSH CORPORATION, US  
[85] 2024-01-08  
[86] 2022-07-07 (PCT/US2022/036421)  
[87] (WO2023/283382)  
[30] US (17/372,154) 2021-07-09

[21] **3,225,198**  
[13] A1

[51] **Int.Cl. G01S 17/933 (2020.01) B64F 1/22 (2024.01) G08G 9/02 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR GROUND TRAVEL COLLISION AVOIDANCE OF AIRCRAFT**

[54] **PROCEDE ET SYSTEME D'EVITEMENT DE COLLISION LORS DU DEPLACEMENT AU SOL D'AERONEFS**

[72] CHENG, WEIJIE, CN  
[72] GAO, ZHIDONG, CN  
[72] SONG, SHAOKUN, CN  
[72] ZHANG, QIAN, CN  
[72] TANG, HAOQING, CN  
[72] LIU, JIE, CN  
[72] DING, XIAOCHENG, CN  
[72] LIU, YU, CN  
[71] CHINA EASTERN AIRLINES CO., LTD., CN  
[71] EASTERN AIRLINES TECHNIC CO., LTD., CN  
[71] CHINA EASTERN TECHNOLOGY APPLICATION RESEARCH AND DEVELOPMENT CENTER ..., CN  
[85] 2024-01-08  
[86] 2022-06-10 (PCT/CN2022/098257)  
[87] (WO2023/284461)  
[30] CN (202110793966.5) 2021-07-14

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[21] **3,225,200**  
[13] A1

[51] **Int.Cl. A61H 1/02 (2006.01) A61H 3/00 (2006.01) B25J 9/00 (2006.01) B25J 9/10 (2006.01)**

[25] FR

[54] **PORTABLE ASSISTANCE SYSTEM AND CORRESPONDING APPARATUS**

[54] **SYSTEME D'ASSISTANCE PORTATIF ET APPAREIL CORRESPONDANT**

[72] GRENIER, JORDANE, FR

[72] LUCKING-BIGUE, JEAN-PHILIPPE, CA

[72] LAROSE, PASCAL, CA

[71] SAFRAN ELECTRONICS & DEFENSE, FR

[85] 2024-01-08

[86] 2022-07-18 (PCT/EP2022/070050)

[87] (WO2023/001755)

[30] FR (FR2107840) 2021-07-21

[21] **3,225,201**  
[13] A1

[51] **Int.Cl. A61J 1/03 (2023.01) H04W 4/20 (2018.01) G16H 20/13 (2018.01) A61J 7/04 (2006.01)**

[25] EN

[54] **ELECTRONIC MATERIAL SLEEVE FOR MEDICAL DEVICES**

[54] **MANCHON DE MATERIAU ELECTRONIQUE POUR DISPOSITIFS MEDICAUX**

[72] MCCAIN, AISHA, US

[72] SHEETS, ANNEMARIE, US

[71] CREATE TO OVERCOME LLC, US

[85] 2024-01-08

[86] 2022-05-10 (PCT/US2022/028620)

[87] (WO2023/282973)

[30] US (63/220,186) 2021-07-09

[30] US (63/221,213) 2021-07-13

[30] US (17/736,556) 2022-05-04

[21] **3,225,208**  
[13] A1

[51] **Int.Cl. B62B 7/06 (2006.01) B62B 7/08 (2006.01)**

[25] EN

[54] **FRAME FOLDING AND FIXING DEVICE AND BABY CARRIER**

[54] **DISPOSITIF DE PLIAGE ET DE FIXATION DE CADRE ET PORTE-BEBE**

[72] ZHENG, LEILEI, CN

[72] FANG, LIWU, CN

[71] WONDERLAND SWITZERLAND AG, CH

[85] 2024-01-08

[86] 2022-08-01 (PCT/EP2022/071584)

[87] (WO2023/012120)

[30] CN (202110880960.1) 2021-08-02

[21] **3,225,210**  
[13] A1

[51] **Int.Cl. A47J 36/16 (2006.01) A47J 36/20 (2006.01)**

[25] EN

[54] **AN INNER POT ASSEMBLY, A COOKING UTENSIL, AND A CONTROL METHOD OF THE COOKING UTENSIL**

[54] **ENSEMBLE CASSEROLE INTERNE, USTENSILE DE CUISSON ET PROCEDE DE COMMANDE DE L'USTENSILE DE CUISSON**

[72] LYU, HUA, CN

[72] CAO, KAI, CN

[71] ZHEJIANG SUPOR ELECTRICAL APPLIANCES MANUFACTURING CO., LTD, CN

[85] 2024-01-08

[86] 2022-02-17 (PCT/IB2022/051400)

[87] (WO2023/002257)

[30] CN (202110837706.3) 2021-07-23

[30] CN (202121696299.0) 2021-07-23

[21] **3,225,217**  
[13] A1

[51] **Int.Cl. G01M 5/00 (2006.01) G01M 11/08 (2006.01)**

[25] EN

[54] **A DAMAGE DETECTION SYSTEM**

[54] **SYSTEME DE DETECTION D'ENDOMMAGEMENT**

[72] EDGAR, DAVID, GB

[72] WROE, MATTHEW, GB

[72] BOZIC, MILOS, GB

[71] THREE SMITH GROUP LIMITED, GB

[85] 2024-01-08

[86] 2022-07-12 (PCT/GB2022/051795)

[87] (WO2023/285801)

[30] GB (2110194.4) 2021-07-15

[21] **3,225,219**  
[13] A1

[51] **Int.Cl. A47J 31/18 (2006.01)**

[25] FR

[54] **DEVICE FOR PREPARING A HOT OR COLD BEVERAGE BY INFUSION OF A PRODUCT IN WATER**

[54] **DISPOSITIF POUR LA PREPARATION D'UNE BOISSON CHAUDE OU FROIDE PAR INFUSION D'UN PRODUIT DANS DE L'EAU**

[72] STAMM, ALBAN, FR

[71] STAMM, ALBAN, FR

[85] 2024-01-08

[86] 2022-07-19 (PCT/FR2022/051431)

[87] (WO2023/002116)

[30] FR (FR21/07917) 2021-07-22

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[21] **3,225,225**  
[13] A1

[51] **Int.Cl. C25C 1/02 (2006.01) C22B 26/12 (2006.01)**  
[25] EN  
[54] **ELECTROLYSIS OF LI2SO4 AT LOW PH RANGES**  
[54] **ELECTROLYSE DE LI2SO4 DANS DES PLAGES DE PH FAIBLES**  
[72] BORN, NILS-OLOF JOACHIM, DE  
[72] GARSUCH, ARND, DE  
[72] SCHIERLE-ARNDT, KERSTIN, DE  
[72] WILK, WOLFRAM, DE  
[72] BRAEUNINGER, SIGMAR, DE  
[72] VOGELSANG, REGINA, DE  
[72] OPITZ, BASTIAN, DE  
[72] MALKO, DANIEL, DE  
[72] SMITH, VINCENT, ZA  
[71] BASF SE, DE  
[85] 2024-01-08  
[86] 2022-07-07 (PCT/EP2022/069014)  
[87] (WO2023/281033)  
[30] US (63/220,259) 2021-07-09

[21] **3,225,227**  
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) G16H 30/40 (2018.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR EXPEDITED RADIOLOGICAL SCREENING**  
[54] **PROCEDES ET SYSTEMES DE DEPISTAGE RADIOLOGIQUE RAPIDE**  
[72] SU, JASON, US  
[72] MATHUR, RAKESH, US  
[72] MOMBOURQUETTE, BRENT, US  
[72] MATTHEWS, THOMAS, US  
[72] THOMLINSON, MARGUERITE, US  
[72] CHATTOPADHYAY, SIDDHARTHA, US  
[72] TSUE, TREVOR, US  
[72] VERGNES, HUGO, US  
[72] PEDEMONTE, STEFANO, US  
[71] WHITERABBIT.AI INC., US  
[85] 2024-01-08  
[86] 2022-07-08 (PCT/US2022/036550)  
[87] (WO2023/283443)  
[30] US (63/219,975) 2021-07-09

[21] **3,225,228**  
[13] A1

[51] **Int.Cl. A63F 13/837 (2014.01) A63F 13/211 (2014.01) A63F 13/285 (2014.01) A63F 13/533 (2014.01) F41G 3/26 (2006.01)**  
[25] EN  
[54] **EXTENDED-REALITY PROJECTILE-FIRING GAMING SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE DE JEU A TIR DE PROJECTILE A REALITE ETENDUE**  
[72] GUINN, COLIN, US  
[71] GEL BLASTER, LLC, US  
[85] 2024-01-07  
[86] 2022-07-11 (PCT/US2022/036718)  
[87] (WO2023/283490)  
[30] US (63/220,343) 2021-07-09

[21] **3,225,229**  
[13] A1

[51] **Int.Cl. A01G 33/00 (2006.01) C12M 1/36 (2006.01) C12M 1/42 (2006.01) C12Q 3/00 (2006.01)**  
[25] EN  
[54] **SEAWEED BIOREACTOR APPARATUS, METHODS, AND SYSTEMS**  
[54] **APPAREIL, PROCEDES ET SYSTEMES DE BIOREACTEUR A ALGUES**  
[72] ROULSTON, ROBERT, CA  
[72] DE HAAS, STUART, CA  
[72] GLOVER, SHAWN, US  
[72] LEITE, WILIAM, CA  
[72] GREGORY, CAMERON, CA  
[72] LONG, JENNIFER, CA  
[71] INDUSTRIAL PLANKTON INC., CA  
[85] 2024-01-08  
[86] 2022-07-07 (PCT/CA2022/051070)  
[87] (WO2023/279209)  
[30] US (63/218,952) 2021-07-07

[21] **3,225,236**  
[13] A1

[51] **Int.Cl. G16B 40/30 (2019.01)**  
[25] EN  
[54] **ANTIBODY COMPETITION MODEL USING AFFINITIES OF HIDDEN VARIABLES**  
[54] **MODELE DE COMPETITION D'ANTICORPS UTILISANT DES AFFINITES DE VARIABLES CACHEES**  
[72] FORD, ALEXANDER SEWALL, CA  
[72] GOGORZA, TOMAS, CA  
[72] HANNIE, STEFAN EDWARD, CA  
[72] BERTRAND DE PUYRAIMOND, VALENTINE JULIE LAYLA, CA  
[72] DOCKING, THOMAS RODERICK, CA  
[72] HUGHES, CHRISTOPHER THADDEUS, CA  
[72] JEPSON, KEVIN RICHARD, CA  
[72] KRAFT, LUCAS, CA  
[72] YAP, JORDAN JOHN, CA  
[71] ABCELLERA BIOLOGICS INC., CA  
[85] 2024-01-08  
[86] 2022-07-08 (PCT/US2022/036517)  
[87] (WO2023/009293)  
[30] US (63/219,578) 2021-07-08

[21] **3,225,237**  
[13] A1

[51] **Int.Cl. C09K 8/035 (2006.01) C09K 8/04 (2006.01)**  
[25] EN  
[54] **LUBRICATING ADDITIVE**  
[54] **ADDITIF LUBRIFIANT**  
[72] DELIGNY, JULIEN, FR  
[72] KERBRAT, MARION, FR  
[72] ZITOUNI, KARIMA, FR  
[71] OLEON NV, BE  
[85] 2024-01-08  
[86] 2022-08-09 (PCT/EP2022/072387)  
[87] (WO2023/017057)  
[30] EP (21306118.7) 2021-08-13

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[21] **3,225,248**  
[13] A1

[51] **Int.Cl. A61L 24/04 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS FOR EMBOLIZATION**  
[54] **COMPOSITIONS POUR EMBOLISATION**  
[72] LOPEZ MOYA, MARIO, ES  
[72] RAMOS PEREZ, VICTOR, ES  
[71] IBERHOSPITEX, S.A., ES  
[85] 2024-01-08  
[86] 2022-07-25 (PCT/EP2022/070825)  
[87] (WO2023/006679)  
[30] EP (21382685.2) 2021-07-26

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[21] **3,225,249**  
[13] A1

[51] **Int.Cl. H04W 4/02 (2018.01) H04W 4/50 (2018.01) H04L 41/0803 (2022.01) H04L 67/30 (2022.01)**  
[25] EN  
[54] **MAPPING APPLICATIONS AND LOCATION SERVICE PROFILES**  
[54] **MISE EN CORRESPONDANCE D'APPLICATION ET DE PROFILS DE SERVICE DE LOCALISATION**  
[72] PATEROMICHELAKIS, EMMANOUIL, DE  
[72] THOMAS, ROBIN, DE  
[71] LENOVO (SINGAPORE) PTE. LTD., SG  
[85] 2024-01-08  
[86] 2021-09-28 (PCT/EP2021/076707)  
[87] (WO2023/020708)  
[30] GR (20210100558) 2021-08-18

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[21] **3,225,252**  
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) A61K 35/17 (2015.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**  
[25] EN  
[54] **ENGINEERED T CELL RECEPTORS FUSED TO BINDING DOMAINS FROM ANTIBODIES**  
[54] **RECEPTEURS DE LYMPHOCYTES T MODIFIES FUSIONNES A DES DOMAINES DE LIAISON D'ANTICORPS**  
[72] JARJOUR, JORDAN, US  
[71] 2SEVENTY BIO, INC., US  
[85] 2024-01-08  
[86] 2022-07-14 (PCT/US2022/073725)  
[87] (WO2023/288267)  
[30] US (63/221,819) 2021-07-14

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[21] **3,225,254**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**  
[25] EN  
[54] **MULTISPECIFIC BINDING AGENTS AGAINST CD40 AND CD137 IN COMBINATION THERAPY FOR CANCER**  
[54] **AGENTS DE LIAISON MULTISPECIFIQUES CONTRE CD40 ET CD137 EN POLYTHERAPIE DU CANCER**  
[72] SAHIN, UGUR, DE  
[72] MUIK, ALEXANDER, DE  
[72] FELLERMEIER-KOPF, SINA, DE  
[72] FU, YALI, US  
[72] ADAMS, HOMER III, US  
[72] BAJAJ, GAURAV, US  
[72] HIGGS, BRANDON, US  
[72] FERESHTEH, MARK, US  
[72] SPIRES, VANESSA, US  
[72] BLUM, JORDAN, US  
[72] GARRIDO CASTRO, PATRICIA, NL  
[72] NIEWOOD, MICHELLE, US  
[72] GIESEKE, FRIEDERIKE, DE  
[72] BECKMANN, KARSTEN, DE  
[72] PAULMANN, CLAUDIA, DE  
[72] KUZMANOV, IVAN, DE  
[72] BREIJ, ESTHER CORNELIA WILHELMINA, NL  
[72] GUELEN, LARS, NL  
[72] NEIJSSSEN, JOST, NL  
[72] DE KREUK, BART-JAN, NL  
[72] HIBBERT, RICHARD, NL  
[72] SCHUURMAN, JANINE, NL  
[72] LABRIJN, ARAN FRANK, NL  
[71] BIONTECH SE, DE  
[71] GENMAB A/S, DK  
[85] 2024-01-08  
[86] 2022-07-13 (PCT/EP2022/069639)  
[87] (WO2023/285552)  
[30] US (63/221,340) 2021-07-13  
[30] US (63/364,594) 2022-05-12

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[21] **3,225,257**  
[13] A1

[51] **Int.Cl. G01S 7/481 (2006.01)**  
[25] EN  
[54] **SENSOR FOR AUTOMATIC DOORS OR AUTOMATIC GATES AND AUTOMATIC DOOR OR AUTOMATIC GATE WITH SUCH SENSOR**  
[54] **CAPTEUR POUR PORTES OU PORTAILS AUTOMATIQUES, ET PORTE OU PORTAIL AUTOMATIQUE DOTE DUDIT CAPTEUR**  
[72] KLEIN, JEAN-FRANCOIS, BE  
[72] ZAMBON, ALAIN LOUIS, BE  
[72] LENAERS, ERIC JEAN HERMAN MARIE LEON, BE  
[72] LEFEVRE, BENJAMIN JACQUES CHARLES FERNAND, BE  
[71] BEA S.A., BE  
[85] 2024-01-08  
[86] 2022-07-14 (PCT/EP2022/069801)  
[87] (WO2023/285624)  
[30] DE (10 2021 118 240.9) 2021-07-14

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[21] **3,225,259**  
[13] A1

[51] **Int.Cl. B60L 50/53 (2019.01)**  
[25] EN  
[54] **ELECTRIC VEHICLE FOR HEAVY DUTY APPLICATIONS**  
[54] **VEHICULE ELECTRIQUE APPROPRIE POUR UN USAGE INTENSIF**  
[72] OLIVER, JAMES, AU  
[72] BACH, RICHARD, AU  
[72] SPRAGUE, ANTHONY, AU  
[71] CIPO, CA  
[71] BLUVEIN INNOVATION PTY. LTD., AU  
[85] 2024-01-08  
[86] 2021-07-09 (PCT/AU2021/050738)  
[87] (WO2023/279135)

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[21] **3,225,261**  
[13] A1

[51] **Int.Cl. H04L 9/08 (2006.01)**  
[25] EN  
[54] **QUANTUM KEY DISTRIBUTION  
PROTOCOL ADAPTER**  
[54] **ADAPTATEUR DE PROTOCOLE  
DE DISTRIBUTION DE CLE  
QUANTIQUE**  
[72] WEBB, DAVID, GB  
[72] KHAITAN, PRAKASH, GB  
[71] ARQIT LIMITED, GB  
[85] 2024-01-08  
[86] 2022-06-27 (PCT/GB2022/051640)  
[87] (WO2023/002148)  
[30] GB (2110574.7) 2021-07-22

[21] **3,225,262**  
[13] A1

[51] **Int.Cl. G06T 11/20 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR  
VARIABLE MULTI-CHANNEL  
AND MULTI-DIMENSIONAL  
DATA GENERATION AND  
TRANSMISSION**  
[54] **SYSTEMES ET PROCEDES POUR  
LA GENERATION ET LA  
TRANSMISSION DE DONNEES  
MULTIDIMENSIONNELLES ET  
MULTI-CANAUX VARIABLES**  
[72] SHIPES, NICHOLAS CRAIG, US  
[72] MILLER, SETH JACOB, US  
[72] HUFFMAN, TONY LEE, US  
[72] HUBBARD, DAVID JAMES, US  
[71] VAISALA OYJ, FI  
[85] 2024-01-08  
[86] 2022-07-21 (PCT/IB2022/000423)  
[87] (WO2023/002254)  
[30] US (63/224,928) 2021-07-23  
[30] US (17/869,454) 2022-07-20

[21] **3,225,263**  
[13] A1

[51] **Int.Cl. B64G 1/24 (2006.01) B64G  
1/28 (2006.01) B64G 1/66 (2006.01)  
B64G 3/00 (2006.01) G01S 13/90  
(2006.01) B64G 1/10 (2006.01)**  
[25] EN  
[54] **SATELLITE WITH SPOT LIGHT  
MODE FOR EXTENDED  
DURATION TARGET IMAGING**  
[54] **SATELLITE AVEC MODE DE  
LUMIERE PONCTUELLE POUR  
L'IMAGERIE D'UNE CIBLE SUR  
UNE DUREE ETENDUE**  
[72] MUFF, DARREN, FI  
[72] IGNATENKO, VLADIMIR, FI  
[72] NOTTINGHAM, MATTHEW, FI  
[71] ICEYE OY, FI  
[85] 2024-01-08  
[86] 2022-07-12 (PCT/EP2022/069402)  
[87] (WO2023/285432)  
[30] GB (2110156.3) 2021-07-14

[21] **3,225,264**  
[13] A1

[51] **Int.Cl. C07K 14/33 (2006.01) C07K  
1/18 (2006.01)**  
[25] EN  
[54] **METHOD FOR PURIFICATION OF  
BOTULINUM TOXIN COMPLEX  
WITH IMPROVED  
PURIFICATION YIELD**  
[54] **PROCEDE DE PURIFICATION DE  
COMPLEXE DE TOXINE  
BOTULIQUE A RENDEMENT DE  
PURIFICATION AMELIORE**  
[72] KIM, CHUNG SEI, KR  
[72] SONG, YOUNG JUN, KR  
[71] INIBIO CO., LTD., KR  
[85] 2024-01-08  
[86] 2022-07-22 (PCT/KR2022/010836)  
[87] (WO2023/003443)  
[30] KR (10-2021-0096681) 2021-07-22

[21] **3,225,265**  
[13] A1

[51] **Int.Cl. B60C 15/024 (2006.01) B60C  
17/04 (2006.01)**  
[25] EN  
[54] **TIRE ASSEMBLY FOR  
PROVIDING ENHANCED  
VEHICLE STABILITY**  
[54] **ENSEMBLE PNEU POUR  
FOURNIR UNE MEILLEURE  
STABILITE DE VEHICULE**  
[72] DONALDSON, JAMES A., US  
[71] TEREX SOUTH DAKOTA, INC., US  
[85] 2024-01-08  
[86] 2022-07-21 (PCT/US2022/037805)  
[87] (WO2023/003999)  
[30] US (63/224,629) 2021-07-22

[21] **3,225,266**  
[13] A1

[51] **Int.Cl. A61K 9/107 (2006.01) A61K  
31/122 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL  
COMPOSITIONS COMPRISING  
2,3,5-TRIMETHYL-6-  
NONYLCYCLOHEXA-2,5-DIENE-  
1,4-DIONE**  
[54] **COMPOSITIONS  
PHARMACEUTIQUES  
COMPRENANT DE LA 2,3,5-  
TRIMETHYL-6-  
NONYLCYCLOHEXA -2,5-DIENE-  
1,4-DIONE**  
[72] PINNAMANENI, SWATHI, US  
[72] DALI, MANDAR V., US  
[72] PATEL, DHAVAL, US  
[72] UDDIN, AKM NASIR, US  
[71] PTC THERAPEUTICS, INC., US  
[85] 2024-01-08  
[86] 2022-07-08 (PCT/US2022/036589)  
[87] (WO2023/283466)  
[30] US (63/219,784) 2021-07-08

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[21] **3,225,267**  
[13] A1

[51] **Int.Cl. H01R 31/06 (2006.01)**  
[25] EN  
[54] **WIRING HARNESS MODULE AND COMBINED WIRING HARNESS**  
[54] **MODULE DE FAISCEAU DE CABLAGE ET FAISCEAU DE CABLAGE COMBINE**  
[72] WANG, CHAO, CN  
[71] JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD., CN  
[85] 2024-01-08  
[86] 2022-07-26 (PCT/CN2022/107934)  
[87] (WO2023/005930)  
[30] CN (202110876044.0) 2021-07-30  
[30] CN (202121766135.0) 2021-07-30

[21] **3,225,268**  
[13] A1

[51] **Int.Cl. C07D 491/048 (2006.01) A61K 31/4741 (2006.01)**  
[25] EN  
[54] **SALT TYPES OF TRICYCLIC TETRAHYDRO ISOQUINOLINE DERIVATIVE**  
[54] **TYPES DE SEL DE DERIVE DE TETRAHYDROISOQUINOLEINE TRICYCLIQUE**  
[72] JIA, LINA, CN  
[72] WANG, LIN, CN  
[72] SHAO, QIYUN, CN  
[72] FENG, JUN, CN  
[72] YANG, JUNRAN, CN  
[72] DU, ZHENXING, CN  
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN  
[85] 2024-01-08  
[86] 2022-07-08 (PCT/CN2022/104669)  
[87] (WO2023/280309)  
[30] CN (202110779905.3) 2021-07-09

[21] **3,225,269**  
[13] A1

[51] **Int.Cl. C12N 5/00 (2006.01) C12N 5/0775 (2010.01)**  
[25] EN  
[54] **2-DIMENSIONAL CULTURE METHOD OF EMBRYOID BODIES FOR MESENCHYMAL STEM CELL DIFFERENTIATION**  
[54] **PROCEDE DE CULTURE BIDIMENSIONNELLE DE CORPS EMBRYOIDES POUR LA DIFFERENCIATION DE CELLULES SOUCHES MESENCHYMATEUSES**  
[72] DOGAN, AYSEGUL, TR  
[72] SAGRAC, DERYA, TR  
[72] SENKAL, SELINAY, TR  
[72] HAYAL, TAHA BARTU, TR  
[72] SAHIN, FIKRETTIN, TR  
[71] YEDITEPE UNIVERSITESI, TR  
[85] 2024-01-08  
[86] 2022-06-30 (PCT/TR2022/050684)  
[87] (WO2023/282877)  
[30] TR (2021/011151) 2021-07-08

[21] **3,225,271**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) A61K 35/76 (2015.01) C07H 21/04 (2006.01)**  
[25] EN  
[54] **AAV TRANSFER PLASMIDS**  
[54] **PLASMIDES DE TRANSFERT AAV**  
[72] KOZLOWSKI, CHRISTOPHER, US  
[71] ATSENA THERAPEUTICS, INC., US  
[85] 2024-01-08  
[86] 2022-07-27 (PCT/US2022/038520)  
[87] (WO2023/009622)  
[30] US (63/226,410) 2021-07-28

[21] **3,225,272**  
[13] A1

[51] **Int.Cl. A61F 2/82 (2013.01) A61F 2/91 (2013.01) A61F 2/95 (2013.01) A61F 2/86 (2013.01) A61F 2/90 (2013.01) A61F 2/04 (2013.01)**  
[25] EN  
[54] **INTRALUMINAL STENTS FOR TREATING BENIGN PROSTATIC HYPERPLASIA**  
[54] **STENTS INTRALUMINAUX DESTINES AU TRAITEMENT DE L'HYPERPLASIE BENIGNE DE LA PROSTATE**  
[72] KADLEC, ADAM, US  
[72] SCHIEBER, ANDREW, US  
[72] DORAISWAMY, ANAND, US  
[71] RIVERMARK MEDICAL, INC., US  
[85] 2024-01-08  
[86] 2022-08-04 (PCT/US2022/039481)  
[87] (WO2023/014917)  
[30] US (63/230,602) 2021-08-06

[21] **3,225,274**  
[13] A1

[51] **Int.Cl. C08L 95/00 (2006.01)**  
[25] FR  
[54] **BITUMEN BASE COMPOSITION FOR PRODUCING BITUMEN COMPRISING A PLASTICS LIQUEFACTION OIL**  
[54] **COMPOSITION DE BASES BITUME POUR LA FABRICATION DE BITUME COMPRENANT UNE HUILE DE LIQUEFACTION DE PLASTIQUE**  
[72] BOULANGER, CARINE, FR  
[72] CHOFFAT, ALEXANDRINE, FR  
[72] BENKHALED, MERSAKA, FR  
[71] TOTALENERGIES ONETECH, FR  
[85] 2024-01-08  
[86] 2022-07-25 (PCT/EP2022/070795)  
[87] (WO2023/006668)  
[30] EP (21306036.1) 2021-07-26

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[21] **3,225,275**  
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) A61K 47/64 (2017.01)**  
[25] EN  
[54] **EPITHELIAL SODIUM CHANNEL (ENAC) INHIBITOR CONJUGATES AND METHODS FOR USE THEREOF**  
[54] **CONJUGUES INHIBITEURS DE CANAL SODIQUÉ EPITHELIAL (ENAC) ET LEURS METHODES D'UTILISATION**  
[72] CHRISTENSEN, DALE J., US  
[71] LUNG THERAPEUTICS, INC., US  
[85] 2024-01-08  
[86] 2022-07-08 (PCT/US2022/073561)  
[87] (WO2023/283639)  
[30] US (63/219,488) 2021-07-08  
[30] US (63/243,629) 2021-09-13

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[21] **3,225,276**  
[13] A1

[51] **Int.Cl. H01M 10/058 (2010.01) H01M 10/052 (2010.01) H01M 50/105 (2021.01)**  
[25] EN  
[54] **LITHIUM SECONDARY BATTERY AND METHOD FOR MANUFACTURING THE SAME**  
[54] **BATTERIE SECONDAIRE AU LITHIUM ET METHODE DE FABRICATION**  
[72] KIM, MIN-SU, KR  
[72] HONG, KYUNG-SIK, KR  
[72] SHIN, DONG-SEOK, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2024-01-08  
[86] 2022-10-12 (PCT/KR2022/015436)  
[87] (WO2023/063726)  
[30] KR (10-2021-0134880) 2021-10-12

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[21] **3,225,277**  
[13] A1

[51] **Int.Cl. A47G 19/02 (2006.01) F25D 3/08 (2006.01)**  
[25] EN  
[54] **CROCKERY SYSTEM COMPRISING THERMAL BUFFER MATERIAL AND PHASE-CHANGE MATERIAL**  
[54] **SYSTEME DE VAISSELLE COMPRENANT UN MATERIAU TAMPON THERMIQUE ET UN MATERIAU A CHANGEMENT DE PHASE**  
[72] REDJAL, KARIM, BE  
[72] MERTENS, PASCAL GABRIELLE  
[72] NESTOR, BE  
[71] PROMECO NV, BE  
[85] 2024-01-08  
[86] 2022-07-08 (PCT/IB2022/056332)  
[87] (WO2023/281458)  
[30] BE (BE2021/5536) 2021-07-09

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[21] **3,225,278**  
[13] A1

[51] **Int.Cl. C12N 15/63 (2006.01)**  
[25] EN  
[54] **TRANSCRIPTION ACTIVATOR-LIKE EFFECTORS FUSED TO INTEINS**  
[54] **EFFECTEURS DE TYPE ACTIVATEUR DE TRANSCRIPTION FUSIONNES A DES INTEINES**  
[72] WILLIAMS, ROBERT W., US  
[72] WIXON, SARA, US  
[71] CIBUS US LLC, US  
[71] CIBUS EUROPE B.V., NL  
[85] 2024-01-08  
[86] 2022-07-07 (PCT/US2022/073508)  
[87] (WO2023/283597)  
[30] US (63/219,291) 2021-07-07

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[21] **3,225,279**  
[13] A1

[51] **Int.Cl. C08B 37/08 (2006.01) A61K 31/722 (2006.01)**  
[25] EN  
[54] **CHITOSAN OLIGOMERS AND USES THEREOF**  
[54] **OLIGOMERES DE CHITOSANE ET LEURS UTILISATIONS**  
[72] MOERSCHBACHER, BRUNO MARIA, DE  
[72] CORD-LANDWEHR, STEFAN, DE  
[72] REGEL, EVA KATHARINA, DE  
[72] RICHTER, CAROLIN, DE  
[71] UNIVERSITAT MUNSTER, DE  
[85] 2024-01-08  
[86] 2022-07-20 (PCT/EP2022/070403)  
[87] (WO2023/001913)  
[30] EP (21186790.8) 2021-07-20

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[21] **3,225,280**  
[13] A1

[51] **Int.Cl. A01N 47/04 (2006.01)**  
[25] EN  
[54] **FUNGICIDAL USE**  
[54] **UTILISATION FONGICIDE**  
[72] CERNUSCHI, MATTEO, IT  
[71] ADAMA MAKHTESHIM LTD., IL  
[85] 2024-01-08  
[86] 2022-07-08 (PCT/IB2022/056346)  
[87] (WO2023/281467)  
[30] US (63/219,703) 2021-07-08

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[21] **3,225,281**  
[13] A1

[25] EN  
[54] **MULTI-COLOR OLED ARRAY FOR HIGH APERTURE DISPLAY**  
[54] **MATRICE OLED MULTICOLORE POUR AFFICHAGE A GRANDE OUVERTURE**  
[72] CHENG, JIAQI, CA  
[72] PECKHAM, JORDAN, CA  
[71] AVALON HOLOGRAPHICS INC., CA  
[85] 2024-01-08  
[86] 2022-06-21 (PCT/CA2022/050993)  
[87] (WO2023/283720)  
[30] US (17/378,300) 2021-07-16



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[21] **3,225,282**  
[13] A1

[51] **Int.Cl. C08K 5/00 (2006.01) C08K 5/372 (2006.01) C08K 5/40 (2006.01) C08L 23/06 (2006.01)**

[25] EN

[54] **POLYMER COMPOSITIONS STABILIZED WITH ORGANODISULFIDE BLENDS**

[54] **COMPOSITIONS DE POLYMERES STABILISEES PAR DES MELANGES D'ORGANODISULFURES**

[72] BUITRAGO, CARLOS F., US

[71] ARKEMA INC., US

[85] 2024-01-08

[86] 2022-04-07 (PCT/US2022/023787)

[87] (WO2023/282945)

[30] US (63/218,526) 2021-07-06

[21] **3,225,283**  
[13] A1

[51] **Int.Cl. C07K 14/74 (2006.01) A61K 35/17 (2015.01) A61K 35/39 (2015.01) A61P 37/06 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **ALTERED EXPRESSION OF Y CHROMOSOME-LINKED ANTIGENS IN HYPOIMMUNOGENIC CELLS**

[54] **EXPRESSION MODIFIEE D'ANTIGENES LIES AU CHROMOSOME Y DANS DES CELLULES HYPO-IMMUNOGENES**

[72] SCHREPFER, SONJA, US

[72] REBAR, EDWARD, US

[72] GOLDMAN, DANIEL, US

[71] SANA BIOTECHNOLOGY, INC., US

[85] 2024-01-08

[86] 2022-07-12 (PCT/US2022/036874)

[87] (WO2023/287827)

[30] US (63/221,887) 2021-07-14

[30] US (63/255,914) 2021-10-14

[21] **3,225,285**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01)**

[25] EN

[54] **PI3K.ALPHA. INHIBITORS AND METHODS OF USE THEREOF**

[54] **INHIBITEURS DE PI3K.ALPHA. ET LEURS PROCEDES D'UTILISATION**

[72] BOEZIO, ALESSANDRO, US

[72] TAYLOR, ALEXANDER M., US

[72] FRIDRICH, CARY GRIFFIN, US

[72] GUNAYDIN, HAKAN, US

[72] DIPIETRO, LUCIAN V., US

[72] PIERCE, LEVI CHARLES THOMAS, US

[72] MADER, MARY M., US

[72] KURUKULASURIYA, RAVI, US

[72] MCLEAN, THOMAS H., US

[72] PAN, YUE, US

[72] DENINNO, MICHAEL PAUL, US

[72] LARIVÉE, ALEXANDRE, CA

[72] BURNIE, ANDREW J., CA

[72] MEDENA, CALEB, CA

[72] MAERTENS, GAETAN, CA

[72] TANVEER, KASHIF, CA

[72] PAL, MOHAN, CA

[72] MOHAMED, TAREK, CA

[72] LEPITRE, THOMAS, CA

[72] ATIENZA, BREN-JORDAN, CA

[72] VEMULA, NARESH, CA

[72] GELOZIA, SHORENA, CA

[71] RELAY THERAPEUTICS, INC., US

[85] 2024-01-08

[86] 2022-07-13 (PCT/US2022/073672)

[87] (WO2023/288242)

[30] US (63/203,220) 2021-07-13

[21] **3,225,304**  
[13] A1

[51] **Int.Cl. G01T 7/04 (2006.01)**

[25] EN

[54] **PORTABLE SYSTEM FOR MONITORING AIRBORNE RADIONUCLIDES**

[54] **SYSTEME PORTATIF DE SURVEILLANCE DE RADIONUCLEIDES EN SUSPENSION DANS L'AIR**

[72] LEBEL, LUKE, CA

[72] CLOUTHIER, ANTHONY, CA

[72] DICKSON, RAYMOND, CA

[71] ATOMIC ENERGY OF CANADA LIMITED/ENERGIE ATOMIQUE DU CANADA LIMITEE, CA

[85] 2024-01-09

[86] 2022-07-20 (PCT/CA2022/051120)

[87] (WO2023/000093)

[30] US (63/223,903) 2021-07-20

[21] **3,225,320**  
[13] A1

[51] **Int.Cl. A01D 45/06 (2006.01) B65F 1/14 (2006.01) D21H 11/00 (2006.01) D21H 27/10 (2006.01) D21H 11/16 (2006.01)**

[25] EN

[54] **HEMP PAPER BAGS**

[54] **SACS EN PAPIER DE CHANVRE**

[72] KOHN, STEVE, US

[71] BROADWAY HOLDINGS IX, US

[85] 2024-01-09

[86] 2022-07-19 (PCT/US2022/037552)

[87] (WO2023/003848)

[30] US (63/224,320) 2021-07-21

[30] US (17/855,536) 2022-06-30

[21] **3,225,321**  
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/00 (2006.01) A61P 37/06 (2006.01) C07K 4/00 (2006.01) C07K 16/00 (2006.01) C07K 16/40 (2006.01)**

[25] EN

[54] **PTPRS IN AUTOIMMUNITY**

[54] **PTPRS DANS L'AUTO-IMMUNITE**

[72] BOTTINI, NUNZIO, US

[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2024-01-09

[86] 2022-07-29 (PCT/US2022/074351)

[87] (WO2023/010132)

[30] US (63/227,532) 2021-07-30

[21] **3,225,325**  
[13] A1

[51] **Int.Cl. F03B 17/04 (2006.01) F03B 17/02 (2006.01)**

[25] EN

[54] **PRESSURE-DIFFERENTIAL ENGINE APPARATUS**

[54] **APPAREIL DE MOTEUR A DIFFERENTIEL DE PRESSION**

[72] MARKOV, VITALII, US

[71] MARKOV, VITALII, US

[85] 2024-01-09

[86] 2023-03-07 (PCT/US2023/014669)

[87] (WO2023/249675)

[30] US (63/354,932) 2022-06-23

[30] US (18/097,241) 2023-01-15

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[21] **3,225,327**  
[13] A1

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/454 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **NOVEL PIPERIDINE DERIVATIVE AND PHARMACEUTICAL COMPOSITION FOR INHIBITING AUTOTAXIN COMPRISING SAME**

[54] **NOUVEAU DERIVE DE PIPERIDINE ET COMPOSITION PHARMACEUTIQUE POUR INHIBER L'AUTOTAXINE LE COMPRENANT**

[72] LEE, BONG YONG, KR  
[72] SHIN, YOUNG AH, KR  
[72] LEE, MI JI, KR  
[72] KIM, EUN JEONG, KR  
[72] KIM, SHIN AE, KR  
[72] HAN, NA RA, KR  
[72] KANG, SOO SUNG, KR  
[72] YANG, SU JAE, KR  
[72] LA, MINH THANH, KR  
[71] NEXTGEN BIOSCIENCE CO., LTD., KR

[85] 2024-01-09  
[86] 2022-09-30 (PCT/KR2022/014774)  
[87] (WO2023/055178)  
[30] KR (10-2021-0130879) 2021-10-01

[21] **3,225,329**  
[13] A1

[51] **Int.Cl. B65B 29/02 (2006.01) B31B 50/74 (2017.01) B31F 1/36 (2006.01) B65B 9/04 (2006.01) B65B 47/04 (2006.01) B65B 57/08 (2006.01) B65B 61/06 (2006.01) B65B 63/02 (2006.01) G01N 22/04 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR FORMING A COMPOSTABLE POD FOR BEVERAGES FROM A SHEET HAVING A CONTROLLED MOISTURE LEVEL**

[54] **SYSTEME ET PROCEDE DE FORMATION DE CAPSULE COMPOSTABLE POUR BOISSONS A PARTIR D'UNE FEUILLE AYANT UN NIVEAU D'HUMIDITE CONTROLE**

[72] GALAFFU, NICOLA, FR  
[72] MISSOUM, KARIM, FR  
[72] NIEDERREITER, GERHARD, CH  
[72] WIPRAECHTIGER, HANS, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2024-01-09  
[86] 2022-07-30 (PCT/EP2022/071485)  
[87] (WO2023/007021)  
[30] EP (21188641.1) 2021-07-30  
[30] EP (22187746.7) 2022-07-29

[21] **3,225,332**  
[13] A1

[51] **Int.Cl. G01N 30/46 (2006.01) B01D 15/18 (2006.01) G01N 30/84 (2006.01) G01N 30/88 (2006.01) G01N 30/44 (2006.01) G01N 30/72 (2006.01)**

[25] EN

[54] **METHODS FOR VIRAL PARTICLE CHARACTERIZATION USING TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY**

[54] **PROCEDES DE CARACTERISATION DE PARTICULES VIRALES A L'AIDE DE CHROMATOGRAPHIE LIQUIDE BIDIMENSIONNELLE-SPECTROMETRIE DE MASSE**

[72] QIU, HAIBO, US  
[72] WU, ZHIJIE, US  
[72] WANG, HONGXIA, US  
[72] LI, NING, US  
[72] WERT, JONATHAN, US  
[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2024-01-09  
[86] 2022-07-11 (PCT/US2022/036723)  
[87] (WO2023/287723)  
[30] US (63/220,651) 2021-07-12  
[30] US (63/275,138) 2021-11-03  
[30] US (63/359,554) 2022-07-08  
[30] US (63/359,557) 2022-07-08

[21] **3,225,330**  
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) C12N 5/0775 (2010.01) C12N 15/113 (2010.01) A61P 9/10 (2006.01) C12N 9/22 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **MESENCHYMAL STEM CELL HAVING OXIDATIVE STRESS RESISTANCE, PREPARATION METHOD THEREFOR, AND USE THEREOF**

[54] **CELLULE SOUCHE MESENCHYMATEUSE AYANT UNE RESISTANCE AU STRESS OXYDATIF, SON PROCEDE DE PREPARATION ET SON UTILISATION**

[72] SHIN, EUN JI, KR  
[72] LEE, KANG IN, KR  
[72] CHOI, YU RI, KR  
[72] SHIN, HYE JUNG, KR  
[72] LEE, JAE YOUNG, KR  
[71] TOOLGEN INCORPORATED, KR

[85] 2024-01-09  
[86] 2022-07-08 (PCT/KR2022/009918)  
[87] (WO2023/282688)  
[30] KR (10-2021-0090522) 2021-07-09

[21] **3,225,333**  
[13] A1

[51] **Int.Cl. B60K 17/30 (2006.01)**

[25] FR

[54] **ORDER-PICKING CARRIAGE EQUIPPED WITH A SINGLE MOTOR FOR DRIVING THE DRIVEN WHEELS**

[54] **CHARIOT DE PREPARATION DE COMMANDES EQUIPE D'UN MOTEUR UNIQUE D'ENTRAINEMENT DES ROUES MOTRICES**

[72] CHATAIN, MARC, FR  
[72] ROELS, PIERRE, FR  
[71] EXOTEC, FR

[85] 2024-01-09  
[86] 2022-06-09 (PCT/EP2022/065686)  
[87] (WO2023/001449)  
[30] FR (FR2107848) 2021-07-21

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[21] **3,225,334**  
[13] A1

[51] **Int.Cl. C03C 25/30 (2018.01) C03C 25/1095 (2018.01) C03C 25/321 (2018.01) C03C 25/26 (2018.01) D04H 1/64 (2012.01)**

[25] EN

[54] **HIGH ACOUSTIC AND LOW DENSITY BASEMAT**

[54] **MAT DE BASE A HAUTE PERFORMANCE ACOUSTIQUE ET A BASSE DENSITE**

[72] XU, YUFENG, US

[72] CAO, BANGJI, US

[72] FRANK, WILLIAM, US

[72] YU, QUIN C., US

[72] STOCCO, LOUIS P., US

[72] KELLER, ADAM WARREN, US

[71] USG INTERIORS, LLC, US

[85] 2024-01-09

[86] 2022-07-18 (PCT/US2022/073846)

[87] (WO2023/004288)

[30] US (17/443,319) 2021-07-23

[21] **3,225,335**  
[13] A1

[51] **Int.Cl. H02K 49/04 (2006.01) B60L 7/28 (2006.01) B60T 13/74 (2006.01) B64C 25/42 (2006.01) B64C 25/44 (2006.01) F16D 55/38 (2006.01)**

[25] FR

[54] **AIRCRAFT LANDING GEAR PROVIDED WITH AN EDDY-CURRENT-BASED MAGNETIC BRAKING DEVICE**

[54] **ATTERRISSEUR D'AERONEF EQUIPE D'UN DISPOSITIF DE FREINAGE MAGNETIQUE A COURANT DE FOUCAULT**

[72] NGUYEN, DUY-MINH, FR

[72] DURAND, GUILLAUME, FR

[72] KLIM, GRAEME, FR

[71] SAFRAN LANDING SYSTEMS, FR

[85] 2024-01-09

[86] 2022-07-13 (PCT/EP2022/069685)

[87] (WO2023/285569)

[30] FR (2107629) 2021-07-14

[21] **3,225,336**  
[13] A1

[51] **Int.Cl. C08F 210/16 (2006.01)**

[25] EN

[54] **POLYETHYLENE COMPOSITION FOR BLOW MOLDING HAVING HIGH SWELL RATIO, IMPACT RESISTANCE AND TENSILE MODULUS**

[54] **COMPOSITION DE POLYETHYLENE POUR MOULAGE PAR SOUFFLAGE AYANT UN TAUX DE GONFLEMENT, UNE RESISTANCE AUX CHOCS ET UN MODULE DE TRACTION ELEVES**

[72] DOETSCH, DIANA, DE

[72] MARCZINKE, BERND LOTHAR, DE

[72] MEIER, GERHARDUS, DE

[72] SCHUELLER, ULF, DE

[72] DAMM, ELKE, DE

[72] FIBLA, CLAUDIO, NL

[71] BASELL POLYOLEFIN GMBH, DE

[85] 2024-01-09

[86] 2022-07-05 (PCT/EP2022/068547)

[87] (WO2023/001541)

[30] EP (21187448.2) 2021-07-23

[21] **3,225,337**  
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/49 (2006.01)**

[25] EN

[54] **METABOLOMIC PROFILES FOR PREDICTION OF FUNCTIONAL NEUROLOGICAL OUTCOME OR DEATH FOLLOWING SEVERE TRAUMATIC BRAIN INJURY**

[54] **PROFILS METABOLOMIQUES POUR LA PREDICTION D'UN RESULTAT NEUROLOGIQUE FONCTIONNEL OU D'UN DECES SUITE A UNE LESION CEREBRALE TRAUMATIQUE GRAVE**

[72] WINSTON, BRENT, CA

[72] BANOEI, MOHAMMAD MEHDI, CA

[72] WISHART, DAVID, CA

[71] UTI LIMITED PARTNERSHIP, CA

[71] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA

[85] 2024-01-09

[86] 2022-07-11 (PCT/CA2022/051078)

[87] (WO2023/279213)

[30] US (63/220,248) 2021-07-09

[21] **3,225,338**  
[13] A1

[51] **Int.Cl. B01D 15/18 (2006.01) C12Q 1/70 (2006.01) G01N 30/88 (2006.01) G01N 30/96 (2006.01) G01N 33/569 (2006.01) G01N 30/34 (2006.01)**

[25] EN

[54] **LIQUID CHROMATOGRAPHY ASSAY FOR DETERMINING AAV CAPSID RATIO**

[54] **DOSAGE PAR CHROMATOGRAPHIE EN PHASE LIQUIDE POUR DETERMINER LE RAPPORT CAPSIDIQUE DE L'AAV**

[72] WERT, JONATHAN, US

[72] ZHI, LI, US

[72] LIU, DINGJIANG, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2024-01-09

[86] 2022-07-11 (PCT/US2022/036728)

[87] (WO2023/287725)

[30] US (63/220,651) 2021-07-12

[30] US (63/275,138) 2021-11-03

[30] US (63/359,554) 2022-07-08

[30] US (63/359,557) 2022-07-08

[21] **3,225,339**  
[13] A1

[51] **Int.Cl. C04B 28/14 (2006.01) C04B 38/10 (2006.01)**

[25] EN

[54] **HIGH TEMPERATURE SAG RESISTANT GYPSUM PANEL**

[54] **PANNEAU DE GYPSE RESISTANT A L'AFFAISSEMENT A HAUTE TEMPERATURE**

[72] HEMPHILL, MARK K., US

[72] LI, QINGHUA, US

[72] JOHNSON, AARON D., US

[71] KNAUF GIPS KG, DE

[85] 2024-01-09

[86] 2022-07-19 (PCT/IB2022/056642)

[87] (WO2023/002367)

[30] US (63/225,252) 2021-07-23

[30] US (17/865,747) 2022-07-15

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[21] **3,225,341**  
[13] A1

[51] **Int.Cl. B01J 4/00 (2006.01) B01J 10/00 (2006.01) B01J 19/26 (2006.01)**

[25] EN

[54] **MANIFOLD ASSEMBLIES FOR GAS PHASE REACTORS AND METHODS FOR OPERATING THE SAME**

[54] **ENSEMBLES COLLECTEURS POUR REACTEURS EN PHASE GAZEUSE ET LEURS PROCEDES DE FONCTIONNEMENT**

[72] BERNAL, SAMUEL M., US

[72] WHITE, SIMON J., US

[72] LE, DUNG P., US

[72] HURDLE, MICHAEL I., US

[72] DENTLER, DAVID B., US

[71] UNIVATION TECHNOLOGIES, LLC, US

[85] 2024-01-09

[86] 2022-07-25 (PCT/US2022/038170)

[87] (WO2023/009430)

[30] US (63/225,687) 2021-07-26

[21] **3,225,343**  
[13] A1

[51] **Int.Cl. D21H 19/20 (2006.01) B65D 65/42 (2006.01) D21H 21/16 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING A COATED PAPER ARTICLE**

[54] **PROCEDE DE PREPARATION D'UN ARTICLE EN PAPIER COUCHE**

[72] ZHANG, XIANGYI, US

[72] ROPER III, JOHN A., US

[72] HEJL, ANDREW, US

[72] EINSLA, BRIAN R., US

[72] CARTER, MATTHEW, US

[71] ROHM AND HAAS COMPANY, US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2024-01-09

[86] 2022-06-21 (PCT/US2022/034204)

[87] (WO2023/009242)

[30] US (63/225,602) 2021-07-26

[21] **3,225,344**  
[13] A1

[51] **Int.Cl. D21H 19/20 (2006.01) B65D 65/42 (2006.01) D21H 19/56 (2006.01) D21H 19/58 (2006.01) D21H 19/60 (2006.01)**

[25] EN

[54] **COATED PAPER ARTICLE**

[54] **ARTICLE EN PAPIER COUCHE**

[72] ZHANG, XIANGYI, US

[72] ROPER III, JOHN A., US

[72] HEJL, ANDREW, US

[72] EINSLA, BRIAN R., US

[72] CARTER, MATTHEW, US

[71] ROHM AND HAAS COMPANY, US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2024-01-09

[86] 2022-06-21 (PCT/US2022/034205)

[87] (WO2023/009243)

[30] US (63/225,603) 2021-07-26

[21] **3,225,345**  
[13] A1

[51] **Int.Cl. E21B 47/00 (2012.01) G01F 1/68 (2006.01) E21B 36/04 (2006.01)**

[25] EN

[54] **PASSIVE PRODUCTION LOGGING INSTRUMENT USING HEAT AND DISTRIBUTED ACOUSTIC SENSING**

[54] **INSTRUMENT DE DIAGRAPHE DE PRODUCTION PASSIF UTILISANT LA CHALEUR ET LA DETECTION ACOUSTIQUE DISTRIBUEE**

[72] ROY, BAISHALI, US

[72] FRIEHAUF, KYLE, US

[72] RATERMAN, KEVIN T., US

[72] SWAN, HERBERT W., US

[72] CONSTANTINE, JESSE J., US

[72] JIN, GE, US

[71] CONOCOPHILLIPS COMPANY, US

[85] 2024-01-09

[86] 2022-07-18 (PCT/US2022/037422)

[87] (WO2023/288122)

[30] US (63/222,809) 2021-07-16

[21] **3,225,346**  
[13] A1

[51] **Int.Cl. B31D 5/00 (2017.01) D21F 11/00 (2006.01) D21H 27/02 (2006.01)**

[25] EN

[54] **CONTINUOUS PROCESS FOR FORMING DOMED PAPER AND STRUCTURES**

[54] **PROCEDE CONTINU DE FORMATION DE STRUCTURES ET D'UN PAPIER A DOMES**

[72] DE LUCA, NICHOLAS P., US

[71] OAS DESIGN GROUP, INC., US

[85] 2024-01-09

[86] 2022-07-09 (PCT/US2022/073581)

[87] (WO2023/283653)

[30] US (63/220,211) 2021-07-09

[21] **3,225,347**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4725 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61K 31/5386 (2006.01) A61P 1/16 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 498/08 (2006.01)**

[25] EN

[54] **PHENYL- AND PYRIDOPYRAZOLE DERIVATIVES AS INHIBITORS OF DDR1**

[54] **DERIVES DE PHENYLE ET DE PYRIDOPYRAZOLE EN TANT QU'INHIBITEURS DE DDR1**

[72] BHAMRA, INDER, GB

[72] JONES, CLIFFORD D, GB

[72] RODRIGUEZ, ANA VARELA, GB

[71] REDX PHARMA PLC., GB

[85] 2024-01-09

[86] 2022-08-15 (PCT/GB2022/052122)

[87] (WO2023/021278)

[30] GB (2111740.3) 2021-08-16

## Demandes PCT entrant en phase nationale

<p style="text-align: center;">[21] <b>3,225,348</b> [13] A1</p> <p>[51] <b>Int.Cl. B60K 15/03 (2006.01) B60K 15/063 (2006.01) B60K 15/073 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>DUAL FUEL TANK SYSTEM WITH INTERNALLY MOUNTED FUEL TANKS IN LINE WITH ACTUATORS</b></p> <p>[54] <b>SYSTEME DE RESERVOIR DE CARBURANT DOUBLE A RESERVOIRS DE CARBURANT MONTES INTERIEUREMENT EN LIGNE AVEC DES ACTIONNEURS</b></p> <p>[72] RILLIE, JR. HUGH, US</p> <p>[72] THOMPSON, SEAN W., US</p> <p>[72] MAHONEY, JASON A., US</p> <p>[71] CATERPILLAR INC., US</p> <p>[85] 2024-01-09</p> <p>[86] 2022-07-01 (PCT/US2022/035924)</p> <p>[87] (WO2023/009276)</p> <p>[30] US (17/385,171) 2021-07-26</p>	<p style="text-align: center;">[21] <b>3,225,357</b> [13] A1</p> <p>[51] <b>Int.Cl. E04C 5/16 (2006.01) E04C 5/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>REBAR INSTALLATION DEVICE AND CORRESPONDING METHOD</b></p> <p>[54] <b>DISPOSITIF D'INSTALLATION DE BARRE D'ARMATURE ET PROCEDE CORRESPONDANT</b></p> <p>[72] ROY, PASCAL, CA</p> <p>[71] CONSTRUCTION FORMULE INC., CA</p> <p>[85] 2024-01-09</p> <p>[86] 2022-07-13 (PCT/CA2022/051094)</p> <p>[87] (WO2023/283737)</p> <p>[30] US (63/203,207) 2021-07-13</p>	<p style="text-align: center;">[21] <b>3,225,360</b> [13] A1</p> <p>[51] <b>Int.Cl. G01N 30/72 (2006.01) G01N 30/84 (2006.01) G01N 30/88 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>ONLINE NATIVE MASS SPECTROMETRY METHODS FOR ASSAYING VIRAL PARTICLES</b></p> <p>[54] <b>PROCEDES DE SPECTROMETRIE DE MASSE NATIVE EN LIGNE POUR LE DOSAGE DE PARTICULES VIRALES</b></p> <p>[72] COTHAM, VICTORIA, US</p> <p>[72] WANG, SHUNHAI, US</p> <p>[72] LI, NING, US</p> <p>[71] REGENERON PHARMACEUTICALS, INC., US</p> <p>[85] 2024-01-09</p> <p>[86] 2022-07-11 (PCT/US2022/036725)</p> <p>[87] (WO2023/287724)</p> <p>[30] US (63/220,654) 2021-07-12</p> <p>[30] US (63/352,754) 2022-06-16</p>
<p style="text-align: center;">[21] <b>3,225,349</b> [13] A1</p> <p>[51] <b>Int.Cl. G07C 9/00 (2020.01) H04W 12/06 (2021.01) H04W 4/80 (2018.01) H04W 12/08 (2021.01)</b></p> <p>[25] EN</p> <p>[54] <b>ULTRA-WIDEBAND ACCESSORY DEVICES FOR RADIO FREQUENCY INTENT DETECTION IN ACCESS CONTROL SYSTEMS</b></p> <p>[54] <b>DISPOSITIFS ACCESSOIRES A BANDE ULTRALARGE POUR LA DETECTION D'INTENTION RADIOFREQUENCE DANS DES SYSTEMES DE CONTROLE D'ACCES</b></p> <p>[72] KINCAID, RYAN C., US</p> <p>[72] BROWN, DAVID, US</p> <p>[72] LAND, JOSEPH, US</p> <p>[71] SCHLAGE LOCK COMPANY, US</p> <p>[85] 2024-01-09</p> <p>[86] 2022-07-11 (PCT/US2022/036677)</p> <p>[87] (WO2023/283484)</p> <p>[30] US (17/371,734) 2021-07-09</p>	<p style="text-align: center;">[21] <b>3,225,358</b> [13] A1</p> <p>[51] <b>Int.Cl. C07D 239/54 (2006.01) A01N 43/54 (2006.01) C07D 401/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>HERBICIDAL PHENYLURACILS</b></p> <p>[54] <b>PHENYLURACILES HERBICIDES</b></p> <p>[72] SEISER, TOBIAS, DE</p> <p>[72] WITSCHER, MATTHIAS, DE</p> <p>[72] PETKOVA, DESISLAVA SLAVCHEVA, DE</p> <p>[72] BETZ, MICHAEL, DE</p> <p>[72] NEWTON, TREVOR WILLIAM, DE</p> <p>[72] PARRA RAPADO, LILIANA, DE</p> <p>[72] PAVON ROMERO, RICARDO HUGO, ES</p> <p>[71] BASF SE, DE</p> <p>[85] 2024-01-09</p> <p>[86] 2022-07-06 (PCT/EP2022/068674)</p> <p>[87] (WO2023/285222)</p> <p>[30] EP (21185972.3) 2021-07-16</p>	<p style="text-align: center;">[21] <b>3,225,361</b> [13] A1</p> <p>[51] <b>Int.Cl. A01D 61/00 (2006.01) A01D 41/16 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PLATFORM HEADER WITH BELT FEEDER ASSEMBLY</b></p> <p>[54] <b>BEC CUEILLEUR A PLATEFORME DOTE D'UN ENSEMBLE DISPOSITIF D'ALIMENTATION A COURROIE</b></p> <p>[72] LACY, NOLAN, US</p> <p>[72] HUNDT, KARL, US</p> <p>[72] DIETSCHER, SCOTT, US</p> <p>[72] SHEARER, BRUCE, CA</p> <p>[72] ENNS, JOHN, CA</p> <p>[71] MACDON INDUSTRIES LTD, CA</p> <p>[85] 2024-01-09</p> <p>[86] 2022-07-18 (PCT/US2022/037438)</p> <p>[87] (WO2023/288124)</p> <p>[30] US (63/222,558) 2021-07-16</p>
	<p style="text-align: center;">[21] <b>3,225,359</b> [13] A1</p> <p>[51] <b>Int.Cl. F04D 29/64 (2006.01) F16B 12/44 (2006.01) F16B 12/46 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>VENTILATION FAN INSTALLATION SYSTEM</b></p> <p>[54] <b>SYSTEME D'INSTALLATION DE VENTILATEUR DE VENTILATION</b></p> <p>[72] SERVIES, NICHOLAS, US</p> <p>[72] SPOERKE, JONATHAN, US</p> <p>[71] HOME DEPOT INTERNATIONAL, INC., US</p> <p>[85] 2024-01-09</p> <p>[86] 2022-07-07 (PCT/US2022/036383)</p> <p>[87] (WO2023/283354)</p> <p>[30] US (17/371,808) 2021-07-09</p>	

## PCT Applications Entering the National Phase

[21] **3,225,366**  
[13] A1

[51] **Int.Cl. C01B 33/32 (2006.01) C04B 28/26 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PRODUCING AN ARTICLE CONSISTING OF SILICEOUS MATERIAL, HAVING LOW DENSITY AND THERMAL CONDUCTIVITY, AND A MANUFACTURED ARTICLE THUS OBTAINED**  
[54] **PROCEDE DE FABRICATION D'UN ARTICLE CONSTITUE D'UN MATERIAU SILICEUX, AYANT UNE DENSITE ET UNE CONDUCTIVITE THERMIQUE FAIBLES, ET ARTICLE FABRIQUE AINSI OBTENU**  
[72] PANZERI, LUCA, IT  
[71] QWARZO S.P.A, IT  
[85] 2024-01-09  
[86] 2022-07-13 (PCT/EP2022/069529)  
[87] (WO2023/285499)  
[30] EP (21185544.0) 2021-07-14

[21] **3,225,367**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/497 (2006.01) A61K 31/506 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01)**  
[25] EN  
[54] **BIFUNCTIONAL COMPOUNDS FOR DEGRADING BTK WITH DIMINISHED IMID ACTIVITY**  
[54] **COMPOSES BIFONCTIONNELS POUR LA DEGRADATION DE BTK AVEC UNE ACTIVITE IMID REDUITE**  
[72] GUIDUCCI, CRISTIANA, US  
[72] NOVISKI, MARK, US  
[72] POWERS, JANINE, US  
[72] ROUNTREE, RYAN, US  
[72] TAN, YING SIOW, US  
[71] NURIX THERAPEUTICS, INC., US  
[85] 2024-01-09  
[86] 2022-07-13 (PCT/US2022/037029)  
[87] (WO2023/287928)  
[30] US (63/221,905) 2021-07-14

[21] **3,225,368**  
[13] A1

[51] **Int.Cl. E21B 19/22 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS OF PRESSURE TESTING COILED TUBING**  
[54] **SYSTEMES ET PROCEDES DE TEST DE PRESSION DE TUBE SPIRALE**  
[72] BURKE, JASON, US  
[72] ELLER, JOHN G., US  
[72] WHITE, MATTHEW L., US  
[71] CONOCOPHILLIPS COMPANY, US  
[85] 2024-01-09  
[86] 2022-07-18 (PCT/US2022/037421)  
[87] (WO2023/288121)  
[30] US (63/222,732) 2021-07-16

[21] **3,225,370**  
[13] A1

[51] **Int.Cl. G06T 13/40 (2011.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR ANIMATING SECONDARY FEATURES**  
[54] **SYSTEME ET PROCEDE D'ANIMATION DE CARACTERISTIQUES SECONDAIRES**  
[72] MOSER, LUCIO DORNELES, CA  
[71] DIGITAL DOMAIN VIRTUAL HUMAN (US), INC., US  
[85] 2024-01-09  
[86] 2022-07-27 (PCT/CA2022/051156)  
[87] (WO2023/004507)  
[30] US (63/227,333) 2021-07-29

[21] **3,225,371**  
[13] A1

[51] **Int.Cl. B61K 3/00 (2006.01) B61L 1/04 (2006.01)**  
[25] EN  
[54] **A DRIVE UNIT FOR RAIL LUBRICATING DEVICES AND A METHOD FOR USING THE SAME**  
[54] **UNITE D'ENTRAINEMENT POUR DISPOSITIFS DE LUBRIFICATION DE RAILS ET PROCEDE D'UTILISATION ASSOCIE**  
[72] GOLTNIK, DARJA, SI  
[72] PAVCNIK, BOJAN, SI  
[71] GOLTNIK, DARJA, SI  
[71] PAVCNIK, BOJAN, SI  
[85] 2024-01-09  
[86] 2022-08-17 (PCT/SI2022/050022)  
[87] (WO2023/027645)  
[30] SI (P-202100158) 2021-08-25

[21] **3,225,372**  
[13] A1

[51] **Int.Cl. A01H 1/00 (2006.01) A01N 33/00 (2006.01) A61K 8/92 (2006.01) A61K 38/16 (2006.01)**  
[25] EN  
[54] **SYNERGISTIC ANTIMICROBIAL COMPOSITIONS CONTAINING SELECTED PEPTIDES AND FATTY ACIDS**  
[54] **COMPOSITIONS ANTIMICROBIENNES SYNERGIQUES CONTENANT DES ACIDES GRAS ET DES PEPTIDES SELECTIONNES**  
[72] MAZZEI, EMMA, IT  
[72] BREVIARIO, ELISA, IT  
[72] ZUCCHINALI, STEFANO, IT  
[72] FRESCHI, GIORGIO, IT  
[71] CLEVER BIOSCIENCE S.R.L., IT  
[85] 2024-01-09  
[86] 2022-07-14 (PCT/EP2022/069722)  
[87] (WO2023/285590)  
[30] IT (102021000018530) 2021-07-14

[21] **3,225,375**  
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01) A61F 9/00 (2006.01) G02C 7/02 (2006.01) G02C 7/04 (2006.01) G02C 7/06 (2006.01)**  
[25] EN  
[54] **OPHTHALMIC LENSES FOR MYOPIA REDUCTION**  
[54] **LENTILLES OPHTALMIQUES POUR LA REDUCTION DE LA MYOPIE**  
[72] ALONSO, JOSE, US  
[72] CHAMORRO, EVA, US  
[72] CLEVA, JOSE, US  
[71] INDIZEN OPTICAL TECHNOLOGIES OF AMERICA, LLC, US  
[85] 2024-01-09  
[86] 2022-09-09 (PCT/US2022/043141)  
[87] (WO2023/059422)  
[30] US (17/496,733) 2021-10-07

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[21] **3,225,377**  
[13] A1

[51] **Int.Cl. B62D 53/12 (2006.01) B60D 1/64 (2006.01)**  
[25] EN  
[54] **AUTOMATIC COUPLING SYSTEM**  
[54] **SYSTEME DE COUPLAGE AUTOMATIQUE**  
[72] FORTHOFFER, DANIEL WILLIAM, US  
[71] R.A. PHILLIPS INDUSTRIES, INC., US  
[85] 2024-01-09  
[86] 2022-03-30 (PCT/US2022/022652)  
[87] (WO2023/287464)  
[30] US (17/374,699) 2021-07-13

[21] **3,225,378**  
[13] A1

[51] **Int.Cl. C08K 5/549 (2006.01) C08G 63/91 (2006.01) C08K 5/09 (2006.01) C08K 5/50 (2006.01) C08K 5/5435 (2006.01) C08L 67/04 (2006.01)**  
[25] EN  
[54] **HIGHLY BRANCHED POLYLACTIDE RESIN AND METHOD FOR PREPARING THE SAME**  
[54] **RESINE DE POLYLACTIDE HAUTEMENT RAMIFIEE ET SON PROCEDE DE PREPARATION**  
[72] PARK, SI JUNG, KR  
[72] WOO, WON HEE, KR  
[72] CHOI, HEUNG YEAL, KR  
[72] OH, WAN KYU, KR  
[71] LG CHEM, LTD., KR  
[85] 2024-01-09  
[86] 2023-04-24 (PCT/KR2023/005519)  
[87] (WO2023/211078)  
[30] KR (10-2022-0051459) 2022-04-26

[21] **3,225,379**  
[13] A1

[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/00 (2006.01) A61K 31/352 (2006.01) A61K 47/00 (2006.01)**  
[25] EN  
[54] **PRENYLATED CHALCONE AND FLAVONOID COMPOSITIONS FOR USE IN TREATING CANCER**  
[54] **COMPOSITIONS DE FLAVONOIDE ET DE CHALCONES PRENYLES DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DU CANCER**  
[72] ARAN, DEVRIM, US  
[72] ARAN, DEVRIM, US  
[72] NIZIOL, ROBERT, US  
[72] NIZIOL, ROBERT, US  
[72] GUJSKI, MARIUSZ, US  
[72] GUJSKI, MARIUSZ, US  
[71] INNOX CORP., US  
[85] 2024-01-09  
[86] 2022-07-08 (PCT/US2022/036485)  
[87] (WO2023/283418)  
[30] US (63/220,054) 2021-07-09

[21] **3,225,380**  
[13] A1

[51] **Int.Cl. A61K 31/436 (2006.01) A61K 31/4375 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**  
[25] EN  
[54] **HETEROCYCLIC COMPOUNDS AS MAP4K1 INHIBITORS**  
[54] **COMPOSES HETEROCYCLIQUES UTILISES EN TANT QU'INHIBITEURS DE MAP4K1**  
[72] BRUBAKER, JASON D., US  
[72] CLOSE, JOSHUA T., US  
[72] DINEEN, THOMAS A., US  
[72] MIDUTURU, CHANDRASEKHAR V., US  
[72] PEROLA, EMANUELE, US  
[71] BLUEPRINT MEDICINES CORPORATION, US  
[85] 2024-01-09  
[86] 2022-07-13 (PCT/US2022/073697)  
[87] (WO2023/288254)  
[30] US (63/221,825) 2021-07-14

[21] **3,225,381**  
[13] A1

[51] **Int.Cl. B65D 5/20 (2006.01) B65D 5/28 (2006.01) B65D 5/42 (2006.01) B65D 77/20 (2006.01)**  
[25] EN  
[54] **METHOD OF FORMING CONTAINERS HAVING TOP FLANGE WITH GLUED CORNERS, SAME CONTAINERS, AND BLANKS FOR FORMING SAME**  
[54] **PROCEDE DE FORMATION DE CONTENANTS AYANT UN BORD SUPERIEUR A COINS COLLES, MEMES CONTENANTS, ET EBAUCHES POUR FORMER DE TELS CONTENANTS**  
[72] WHATLING, TOM J., GB  
[72] SCHERER, ALYSSA J., US  
[72] VALENCIA, JOHN, US  
[71] WESTROCK PACKAGING SYSTEMS, LLC, US  
[85] 2024-01-09  
[86] 2022-07-11 (PCT/US2022/036720)  
[87] (WO2023/283491)  
[30] US (63/220,311) 2021-07-09  
[30] US (63/309,805) 2022-02-14  
[30] US (63/320,428) 2022-03-16

[21] **3,225,383**  
[13] A1

[51] **Int.Cl. G02C 1/00 (2006.01) G02C 1/06 (2006.01) G02C 5/00 (2006.01) G02C 9/04 (2006.01) G02C 13/00 (2006.01)**  
[25] EN  
[54] **GLASSES MANUFACTURE**  
[54] **FABRICATION DE LUNETTES**  
[72] ROTHMAN, ELDAD, IL  
[71] OPTIMAX INVESTMENTS LTD., IL  
[85] 2024-01-09  
[86] 2022-07-14 (PCT/IL2022/050764)  
[87] (WO2023/286067)  
[30] US (63/221,571) 2021-07-14  
[30] US (63/313,326) 2022-02-24

## PCT Applications Entering the National Phase

[21] <b>3,225,384</b> [13] A1	[21] <b>3,225,386</b> [13] A1	[21] <b>3,225,388</b> [13] A1
<p>[51] <b>Int.Cl. A01G 31/02 (2006.01)</b> [25] EN [54] <b>AQUAPONIC GREENHOUSE WITH SUSPENDED HYDROPONIC PLANTER AND IRRIGATION SYSTEM GEOTHERMAL HEAT EXCHANGE SYSTEM AND HYDRONIC RADIANT FLOORING SYSTEM</b> [54] <b>SERRE AQUAPONIQUE AVEC PLANTEUR HYDROPONIQUE SUSPENDU, SYSTEME D'IRRIGATION, SYSTEME D'ECHANGE DE CHALEUR GEOTHERMIQUE ET SYSTEME DE REVETEMENT DE SOL RAYONNANT HYDRONIQUE</b> [72] ANDERSON, TRENT, US [71] JORDYN WYRD, LLC, US [85] 2024-01-09 [86] 2022-07-11 (PCT/US2022/036739) [87] (WO2023/287732) [30] US (63/220,437) 2021-07-09</p>	<p>[51] <b>Int.Cl. A01N 37/44 (2006.01) A01N 53/00 (2006.01) A01P 21/00 (2006.01)</b> [25] EN [54] <b>1-AMINO-1-CYCLOPROPANECARBOXYLIC ACID FOR THINNING OF FRUITS</b> [54] <b>ACIDE 1-AMINO-1-CYCLOPROPANECARBOXYLIQUE POUR L'ECLAIRCISSEMENT DE FRUITS</b> [72] MCARTNEY, STEVE, US [72] WOOLARD, DEREK D., US [72] SCHROEDER, MICHAEL, US [72] VERDUGO MATAMALA, ANTONIETA ISABEL, US [71] VALENT BIOSCIENCES LLC, US [85] 2024-01-09 [86] 2022-09-01 (PCT/US2022/042313) [87] (WO2023/034482) [30] US (63/240,485) 2021-09-03</p>	<p>[51] <b>Int.Cl. C07C 45/29 (2006.01)</b> [25] EN [54] <b>METHOD FOR PRODUCING FATTY ALDEHYDES AND DERIVATIVES THEREOF</b> [54] <b>PROCEDE DE PRODUCTION D'ALDEHYDES GRAS ET DE LEURS DERIVES</b> [72] GABRIELSSON, ANDERS, DK [72] MAZZIOTTA, ANDREA, DK [71] FMC AGRICULTURAL SOLUTIONS A/S, DK [85] 2024-01-09 [86] 2022-08-02 (PCT/EP2022/071672) [87] (WO2023/012151) [30] EP (21190097.2) 2021-08-06 [30] EP (22161123.9) 2022-03-09</p>
[21] <b>3,225,385</b> [13] A1	[21] <b>3,225,387</b> [13] A1	[21] <b>3,225,389</b> [13] A1
<p>[51] <b>Int.Cl. C12Q 1/6855 (2018.01)</b> [25] EN [54] <b>MODIFIED ADAPTERS FOR ENZYMATIC DNA DEAMINATION AND METHODS OF USE THEREOF FOR EPIGENETIC SEQUENCING OF FREE AND IMMOBILIZED DNA</b> [54] <b>ADAPTATEURS MODIFIES POUR DESAMINATION ENZYMATIQUE D'ADN ET LEURS PROCEDES D'UTILISATION POUR LE SEQUENCAGE EPIGENETIQUE D'ADN LIBRE ET IMMOBILISE</b> [72] KOHLI, RAHUL, US [72] WANG, TONG, US [72] LOO, CHRISTIAN, US [71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US [85] 2024-01-09 [86] 2022-07-12 (PCT/US2022/073643) [87] (WO2023/288222) [30] US (63/220,650) 2021-07-12</p>	<p>[51] <b>Int.Cl. A61K 38/00 (2006.01) A61P 35/00 (2006.01) C07K 7/06 (2006.01) C12N 9/12 (2006.01)</b> [25] EN [54] <b>LINEAR PEPTIDES INHIBITING CK2-MEDIATED PHOSPHORYLATION AND COMPOSITIONS COMPRISING THEREOF</b> [54] <b>PEPTIDES LINEAIRES INHIBANT LA PHOSPHORYLATION MEDIEE PAR CK2 ET COMPOSITIONS COMPRENANT LES PEPTIDES</b> [72] MASFORROL GONZALEZ, YORDANKA, CU [72] GARAY PEREZ, HILDA ELISA, CU [72] REYES ACOSTA, OSVALDO, CU [72] PERERA NEGRIN, YASSER, CU [72] CABALLERO MENENDEZ, EVELIN, CU [72] GONZALEZ LOPEZ, LUIS JAVIER, CU [72] BESADA PEREZ, VLADIMIR ARMANDO, CU [72] PEREA RODRIGUEZ, SILVIO ERNESTO, CU [72] GUILLEN NIETO, GERARDO ENRIQUE, CU [72] GONZALEZ BLANCO, SONIA, CU [71] CENTRO DE INGENIERIA GENETICA Y BIOTECNOLOGIA, CU [85] 2024-01-09 [86] 2022-07-07 (PCT/CU2022/050007) [87] (WO2023/280330) [30] CU (2021-0058) 2021-07-09</p>	<p>[51] <b>Int.Cl. G06F 8/33 (2018.01) G06F 8/34 (2018.01) G06F 8/38 (2018.01)</b> [25] EN [54] <b>SYSTEMS, METHODS, USER INTERFACES, AND DEVELOPMENT ENVIRONMENTS FOR GENERATING INSTRUCTIONS IN A COMPUTER LANGUAGE</b> [54] <b>SYSTEMES, PROCEDES, INTERFACES UTILISATEUR ET ENVIRONNEMENTS DE DEVELOPPEMENT POUR GENERER DES INSTRUCTIONS DANS UN LANGAGE INFORMATIQUE</b> [72] GUNDA, SIDDHARTHA, US [72] BOSTON, KYLE MICHAEL, US [72] HU, CHEWEI, US [72] KETKAR, SANKET, US [71] PEOPLE CENTER, INC., US [85] 2024-01-09 [86] 2022-06-29 (PCT/US2022/035521) [87] (WO2023/283088) [30] US (17/372,007) 2021-07-09 [30] US (17/733,423) 2022-04-29</p>



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[21] **3,225,391**  
[13] A1

[51] **Int.Cl. C07C 211/42 (2006.01) A61P 3/04 (2006.01)**  
[25] EN  
[54] **SEROTONIN 5-HT2A, 5-HT2B, AND 5-HT2C RECEPTOR INVERSE AGONISTS**  
[54] **AGONISTES INVERSES DES RECEPTEURS 5-HT2A, 5-HT2B ET 5-HT2C DE LA SEROTONINE**  
[72] BOOTH, RAYMOND, US  
[71] NORTHEASTERN UNIVERSITY, US  
[85] 2024-01-09  
[86] 2022-07-14 (PCT/US2022/037220)  
[87] (WO2023/288027)  
[30] US (63/221,920) 2021-07-14

[21] **3,225,392**  
[13] A1

[51] **Int.Cl. B21F 3/04 (2006.01)**  
[25] EN  
[54] **COIL SPRING PRODUCTION WITH ROTARY CUTTER**  
[54] **PRODUCTION DE RESSORTS HELICOIDALUX A L'AIDE D'UN DISPOSITIF DE COUPE ROTATIF**  
[72] KELLER, ROLAND, CH  
[71] SPUHL GMBH, CH  
[85] 2024-01-09  
[86] 2022-09-15 (PCT/EP2022/075604)  
[87] (WO2023/041620)  
[30] EP (21197470.4) 2021-09-17

[21] **3,225,393**  
[13] A1

[51] **Int.Cl. F42B 39/02 (2006.01) F42B 39/08 (2006.01) F42B 39/22 (2006.01) F42B 39/26 (2006.01)**  
[25] EN  
[54] **A HOLDER DEVICE**  
[54] **DISPOSITIF DE SUPPORT**  
[72] LEPPANEN, KIM, FI  
[72] JARVINEN, EMIL, FI  
[71] KING COMPETITION PRODUCTS OY, FI  
[85] 2024-01-09  
[86] 2022-08-18 (PCT/FI2022/050538)  
[87] (WO2023/031506)  
[30] FI (20215918) 2021-09-02

[21] **3,225,394**  
[13] A1

[51] **Int.Cl. B23K 1/00 (2006.01) B23K 35/02 (2006.01)**  
[25] EN  
[54] **BRAZING SHEETS, ARTICLES FORMED FROM BRAZING SHEETS, AND METHODS OF FORMING ARTICLES**  
[54] **TOLES DE BRASAGE, ARTICLES FORMES A PARTIR DESDITES TOLES DE BRASAGE ET PROCEDES DE FORMATION D'ARTICLES**  
[72] ZONKER, HARRY R., US  
[72] KULOVITS, ANDREAS K., US  
[71] ARCONIC TECHNOLOGIES LLC, US  
[85] 2024-01-09  
[86] 2022-06-24 (PCT/US2022/073150)  
[87] (WO2023/015072)  
[30] US (63/228,740) 2021-08-03  
[30] US (63/266,367) 2022-01-04

[21] **3,225,395**  
[13] A1

[25] EN  
[54] **BRAZING SHEETS, ARTICLES FORMED FROM BRAZING SHEETS, AND METHODS OF FORMING ARTICLES**  
[54] **TOLES A BRASAGE, ARTICLES FORMES A PARTIR DESDITES TOLES A BRASAGE ET PROCEDES DE FORMATION D'ARTICLES**  
[72] ZONKER, HARRY R., US  
[72] KULOVITS, ANDREAS K., US  
[71] ARCONIC TECHNOLOGIES LLC, US  
[85] 2024-01-09  
[86] 2022-06-24 (PCT/US2022/073145)  
[87] (WO2023/015071)  
[30] US (63/228,740) 2021-08-03  
[30] US (63/266,367) 2022-01-04

[21] **3,225,396**  
[13] A1

[51] **Int.Cl. A23L 13/00 (2016.01) C12N 5/071 (2010.01) C12N 5/077 (2010.01)**  
[25] EN  
[54] **MUSCLE CELLS DIFFERENTIATED FROM PLURIPOTENT CELLS, METHODS OF PRODUCING SAME AND USE THEREOF**  
[54] **CELLULES MUSCULAIRES DIFFERENCIEES A PARTIR DE CELLULES PLURIPOTENTES, LEURS PROCEDES DE PRODUCTION ET LEUR UTILISATION**  
[72] LAVON, NETA, IL  
[72] MOLOTSKI-HANDELMAN, NATALI, IL  
[72] ROM, AVIV, IL  
[71] ALEPH FARMS LTD., IL  
[85] 2024-01-09  
[86] 2022-08-08 (PCT/IL2022/050861)  
[87] (WO2023/017509)  
[30] US (63/230,849) 2021-08-09

[21] **3,225,397**  
[13] A1

[51] **Int.Cl. H04W 72/04 (2023.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR HARQ-ACK FEEDBACK GENERATION PER DOWNLINK CONTROL INFORMATION**  
[54] **PROCEDE ET APPAREIL DE GENERATION DE RETROACTION HARQ-ACK PAR INFORMATIONS DE COMMANDE DE LIAISON DESCENDANTE**  
[72] LEI, HAIPENG, CN  
[72] ZHANG, YU, CN  
[71] LENOVO (BEIJING) LIMITED, CN  
[85] 2024-01-09  
[86] 2021-09-28 (PCT/CN2021/121288)  
[87] (WO2023/050053)

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[21] **3,225,398**  
[13] A1

[51] **Int.Cl. A23L 2/02 (2006.01) A23L 2/38 (2021.01) A23L 2/39 (2006.01)**

[25] EN

[54] **GRANULATED PRODUCT AND METHOD FOR PRODUCING SAME**

[54] **PRODUIT GRANULE ET SON PROCEDE DE PRODUCTION**

[72] TAKAHASHI, HIROYA, JP  
[72] KOSEKI, YOSHIFUMI, JP  
[71] TOYO SHINYAKU CO., LTD., JP  
[85] 2024-01-09  
[86] 2022-07-08 (PCT/JP2022/027092)  
[87] (WO2023/286707)  
[30] JP (2021-115226) 2021-07-12  
[30] JP (2022-064382) 2022-04-08

[21] **3,225,400**  
[13] A1

[51] **Int.Cl. A47G 23/04 (2006.01)**

[25] EN

[54] **TEMPERATURE-REGULATION RECEPTACLE SYSTEM**

[54] **SYSTEME DE RECEPTACLE A REGULATION DE TEMPERATURE**

[72] PAWLIK, RANDALL, US  
[72] PAWLIK, LISA, US  
[71] VOCHILL INC., US  
[85] 2024-01-09  
[86] 2022-07-06 (PCT/US2022/036254)  
[87] (WO2023/287623)  
[30] US (17/377,062) 2021-07-15

[21] **3,225,401**  
[13] A1

[51] **Int.Cl. H04N 21/231 (2011.01) H04N 21/235 (2011.01) H04N 21/845 (2011.01)**

[25] EN

[54] **OPTIMIZING CONTINUOUS MEDIA COLLECTION**

[54] **OPTIMISATION DE LA COLLECTE MULTIMEDIA EN CONTINU**

[72] GUZIK, THOMAS, US  
[72] ADEEL, MUHAMMAD, US  
[71] GETAC TECHNOLOGY CORPORATION, CN  
[71] WHP WORKFLOW SOLUTIONS, INC., US  
[85] 2024-01-09  
[86] 2022-07-08 (PCT/US2022/036444)  
[87] (WO2023/287646)  
[30] US (17/373,238) 2021-07-12

[21] **3,225,402**  
[13] A1

[51] **Int.Cl. H04L 41/0806 (2022.01) G06Q 30/06 (2023.01) H04L 41/08 (2022.01) H04L 41/5054 (2022.01)**

[25] EN

[54] **FACILITATING AND PROVISIONING CUSTOMER BROADBAND TRANSPORT SERVICE**

[54] **FACILITATION ET FOURNITURE D'UN SERVICE DE TRANSPORT A LARGE BANDE A LA CLIENTELE**

[72] SYNSTELIEN, JUSTIN L., US  
[72] SYNSTELIEN, BRADY M., US  
[72] SYNSTELIEN, ALEC R., US  
[72] SYNSTELIEN, GARRETT D., US  
[72] SYNSTELIEN, LARRY D., US  
[71] READYLINKS INC., US  
[85] 2024-01-09  
[86] 2022-07-08 (PCT/US2022/073552)  
[87] (WO2023/283633)  
[30] US (63/203,140) 2021-07-09  
[30] US (17/804,161) 2022-05-26

[21] **3,225,403**  
[13] A1

[51] **Int.Cl. A61K 47/69 (2017.01) A61K 47/54 (2017.01)**

[25] EN

[54] **BRAIN PERMEABLE MULTIFUNCTIONAL SYSTEM AND USES THEREOF**

[54] **SYSTEME MULTIFONCTIONNEL POUVANT PENETRER DANS LE CERVEAU ET UTILISATIONS ASSOCIEES**

[72] POPOVTZER, RACHELA, IL  
[72] BETZER, OSHRA, IL  
[72] SAGIV, YUVAL, IL  
[72] MANDIL-LEVIN, REVITAL, IL  
[72] ANTEBI, ADAM A., IL  
[71] NANOCARRY THERAPEUTICS LTD., IL  
[85] 2024-01-09  
[86] 2022-07-13 (PCT/IL2022/050753)  
[87] (WO2023/286060)  
[30] US (63/221,498) 2021-07-14

[21] **3,225,404**  
[13] A1

[51] **Int.Cl. H04L 12/10 (2006.01) H04L 12/28 (2006.01)**

[25] EN

[54] **BIDIRECTIONAL POWER FEED DIGITAL COMMUNICATION DEVICE**

[54] **DISPOSITIF DE COMMUNICATION NUMERIQUE A ALIMENTATION ELECTRIQUE BIDIRECTIONNELLE**

[72] SYNSTELIEN, ALEC R., US  
[72] SYNSTELIEN, LARRY D., US  
[72] SYNSTELIEN, GARRETT D., US  
[72] SYNSTELIEN, BRADY M., US  
[72] SYNSTELIEN, JUSTIN L., US  
[71] READYLINKS INC., US  
[85] 2024-01-09  
[86] 2022-07-08 (PCT/US2022/073555)  
[87] (WO2023/283635)  
[30] US (63/203,141) 2021-07-09  
[30] US (17/804,162) 2022-05-26

[21] **3,225,405**  
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 14/54 (2006.01)**

[25] EN

[54] **IL15/IL15R ALPHA HETERODIMERIC FC-FUSION PROTEINS FOR THE TREATMENT OF BLOOD CANCERS**

[54] **PROTEINES DE FUSION A FC HETERODIMERES IL15/IL15R ALPHA POUR LE TRAITEMENT DE CANCERS DU SANG**

[72] UNGEWICKELL, ALEXANDER JOACHIM PAUL, US  
[71] GENENTECH, INC., US  
[71] XENCOR, INC., US  
[85] 2024-01-09  
[86] 2022-07-27 (PCT/US2022/074179)  
[87] (WO2023/010031)  
[30] US (63/226,359) 2021-07-28

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[21] **3,225,406**  
[13] A1

[51] **Int.Cl. G06T 13/00 (2011.01) G06T 13/40 (2011.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR ANIMATING HAIR WITH RESOLUTION INDEPENDENT FIBER DEFORMATION**

[54] **PROCEDE ET SYSTEME D'ANIMATION DES CHEVEUX PAR DEFORMATION DE FIBRES INDEPENDANTE DE LA RESOLUTION**

[72] LIN, GENE WEI-CHIN, CA  
[72] LAFRATTA, GIORGIO, CA  
[72] SACKS, RAFAE, CA  
[72] FOK, NATHAN, CA  
[71] DIGITAL DOMAIN VIRTUAL HUMAN (US), INC., US

[85] 2024-01-09  
[86] 2022-05-02 (PCT/CA2022/050671)  
[87] (WO2023/000078)  
[30] US (63/225,438) 2021-07-23

[21] **3,225,407**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) C07K 14/495 (2006.01)**

[25] EN

[54] **SELF-ASSEMBLING PEPTIDE AMPHIPHILES DISPLAYING A TRANSFORMING GROWTH FACTOR BETA 1 (TGF-.BETA.1) MIMETIC EPIPOPE**

[54] **AMPHIPHILES PEPTIDIQUES A AUTO-ASSEMBLAGE AFFICHANT UN EPIPOPE MIMETIQUE DU FACTEUR DE CROISSANCE TRANSFORMANT BETA 1 (TGF-.BETA.).**

[72] YUAN, SHELBY CHI, US  
[72] STUPP, SAMUEL I., US  
[72] SATHER, NICHOLAS A., US  
[71] NORTHWESTERN UNIVERSITY, US

[85] 2024-01-09  
[86] 2022-07-28 (PCT/US2022/074263)  
[87] (WO2023/010082)  
[30] US (63/227,097) 2021-07-29

[21] **3,225,409**  
[13] A1

[51] **Int.Cl. G02B 6/46 (2006.01) G02B 6/40 (2006.01) H04Q 1/14 (2006.01)**

[25] EN

[54] **SUPPORT FRAME FOR PROVIDING ADAPTER-LESS CONNECTIONS FOR FIBER OPTIC CABLES**

[54] **CADRE DE SUPPORT POUR FOURNIR DES CONNEXIONS SANS ADAPTATEUR POUR DES CABLES A FIBRES OPTIQUES**

[72] MILETTE, LUC, CA  
[72] ROA-QUISPE, CHRISTIAN, CA  
[72] RAKOTO-SAM, LUCAS, CA  
[72] LAZARTE BARRIOS, OSCAR ALBERTO, CA  
[71] BELDEN CANADA ULC, CA

[85] 2024-01-09  
[86] 2022-07-11 (PCT/IB2022/000519)  
[87] (WO2023/281316)  
[30] US (63/220,347) 2021-07-09

[21] **3,225,410**  
[13] A1

[51] **Int.Cl. E04B 1/84 (2006.01) F24F 13/24 (2006.01)**

[25] EN

[54] **SOUND ISOLATING VENTILATION PANELS AND METHODS FOR MANUFACTURING SAME**

[54] **PANNEAUX DE VENTILATION A ISOLATION ACOUSTIQUE, PANNEAUX DE VENTILATION ET LEURS PROCEDES DE FABRICATION**

[72] HIGGINS, JAMES, CA  
[72] YAU, VICKING WAI KING, CA  
[71] VANAIR DESIGN INC., CA

[85] 2024-01-09  
[86] 2022-07-07 (PCT/CA2022/051067)  
[87] (WO2023/283723)  
[30] US (63/220,827) 2021-07-12

[21] **3,225,452**  
[13] A1

[51] **Int.Cl. A63G 7/00 (2006.01) A63G 31/00 (2006.01)**

[25] EN

[54] **RIDING HARNESS SYSTEM AND METHOD**

[54] **SYSTEME DE HARNAIS DE MANEGE ET PROCEDE**

[72] GOSBEE, KATARINA LIN, US  
[72] HENDERSON, DIONTE OMAR, US  
[72] BLUM, STEVEN C., US  
[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2024-01-10  
[86] 2022-07-29 (PCT/US2022/038920)  
[87] (WO2023/014615)  
[30] US (63/228,538) 2021-08-02

[21] **3,225,459**  
[13] A1

[51] **Int.Cl. F16G 11/12 (2006.01) B60P 7/08 (2006.01) F16G 11/04 (2006.01)**

[25] EN

[54] **DUAL-SIDED RATCHET STRAP APPARATUS**

[54] **APPAREIL A SANGLE A CLIQUET DOUBLE FACE**

[72] WILLIAMS, GEORGE FREDERIC, US  
[71] WILLIAMS, GEORGE FREDERIC, US

[85] 2024-01-10  
[86] 2022-07-15 (PCT/US2022/037353)  
[87] (WO2023/014487)  
[30] US (17/392,417) 2021-08-03

[21] **3,225,463**  
[13] A1

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

[25] EN

[54] **HEALTH INFORMATION BASED COMMUNITIES AND KNOWLEDGE INCENTIVE SYSTEMS AND METHODS**

[54] **COMMUNAUTES BASEES SUR DES INFORMATIONS DE SANTE ET SYSTEMES ET PROCEDES D'INCITATION A LA CONNAISSANCE**

[72] POTTIE, KEVIN, CA  
[72] LEGER, DANIEL, CA  
[71] POTTIE, KEVIN, CA  
[71] LEGER, DANIEL, CA

[85] 2024-01-10  
[86] 2022-07-14 (PCT/CA2022/051096)  
[87] (WO2023/283739)  
[30] US (63/222,077) 2021-07-15  
[30] US (63/266,070) 2021-12-28

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[21] **3,225,466**  
[13] A1

[51] **Int.Cl. B01J 20/32 (2006.01) B01J 20/34 (2006.01)**  
[25] EN  
[54] **AMINE FUNCTIONALIZED FIBRES FOR DIRECT AIR CAPTURE**  
[54] **FIBRES A FONCTION AMINE POUR CAPTURE DIRECTE DANS L'AIR**  
[72] TRAUTNER, FELIX, CH  
[72] VON HOLST, MIRIAM, CH  
[72] REPOND, NICOLAS, CH  
[72] NIEBEL, TOBIAS, CH  
[71] CLIMEWORKS AG, CH  
[85] 2024-01-10  
[86] 2022-07-19 (PCT/EP2022/070179)  
[87] (WO2023/001810)  
[30] EP (21186961.5) 2021-07-21

[21] **3,225,467**  
[13] A1

[51] **Int.Cl. C07D 487/08 (2006.01) A61K 31/501 (2006.01) A61K 31/537 (2006.01) A61K 31/5377 (2006.01) A61K 31/538 (2006.01) A61K 31/541 (2006.01) A61K 31/55 (2006.01) A61K 31/551 (2006.01) A61K 31/553 (2006.01) A61P 35/00 (2006.01) C07D 471/10 (2006.01) C07D 487/10 (2006.01) C07D 487/14 (2006.01) C07D 519/00 (2006.01)**  
[25] EN  
[54] **PHENOL DERIVATIVES FOR USE IN THE MODULATION OF BRM**  
[54] **DERIVES DE PHENOL DESTINES A ETRE UTILISES DANS LA MODULATION DE BRM**  
[72] VILLEMURE, ELISIA, US  
[72] RUDOLPH, JOACHIM, US  
[72] ZENG, MINGSHUO, US  
[71] GENENTECH, INC., US  
[85] 2024-01-10  
[86] 2022-08-08 (PCT/US2022/039696)  
[87] (WO2023/018648)  
[30] US (63/231,219) 2021-08-09  
[30] US (63/231,220) 2021-08-09

[21] **3,225,471**  
[13] A1

[25] EN  
[54] **LIGHTING DEVICE USING COMBINED POWER GENERATION**  
[54]  
[72] JEON, OK JA, KR  
[72] SEO, SEUNG WON, KR  
[72] KOOK, YOON JU, KR  
[72] YIN, XUE BIN, KR  
[72] KIM, BONG HYOUNG, KR  
[71] JEON, OK JA, KR  
[71] SEO, SEUNG WON, KR  
[71] KOOK, YOON JU, KR  
[71] YIN, XUE BIN, KR  
[71] KIM, BONG HYOUNG, KR  
[85] 2024-01-10  
[86] 2023-03-21 (PCT/KR2023/003740)  
[87] (3225471)  
[30] KR (10-2022-0081946) 2022-07-04

[21] **3,225,472**  
[13] A1

[51] **Int.Cl. E21B 33/124 (2006.01) E21B 23/06 (2006.01) E21B 33/127 (2006.01) E21B 43/10 (2006.01)**  
[25] EN  
[54] **EXPANDABLE ELEMENT CONFIGURATION, METHOD AND SYSTEM**  
[54] **CONFIGURATION D'ELEMENT EXPANSIBLE, PROCEDE ET SYSTEME**  
[72] STONE, MATTHEW, US  
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US  
[85] 2024-01-10  
[86] 2022-07-18 (PCT/US2022/073844)  
[87] (WO2023/004286)  
[30] US (17/384,088) 2021-07-23

[21] **3,225,474**  
[13] A1

[51] **Int.Cl. B61L 3/00 (2006.01) B61L 27/16 (2022.01) B61L 27/20 (2022.01) B61L 15/00 (2006.01) B61L 23/34 (2006.01) B61L 23/04 (2006.01) B61L 25/02 (2006.01)**  
[25] EN  
[54] **METHOD FOR SAFELY OPERATING A RAIL TRAFFIC SYSTEM AND RAIL TRAFFIC SYSTEM**  
[54] **PROCEDE DE FONCTIONNEMENT SUR D'UN SYSTEME DE TRANSPORT FERROVIAIRE ET SYSTEME DE TRANSPORT FERROVIAIRE**  
[72] WILCZEK, KRZYSZTOF, AT  
[72] SCHUSTER, WOLFGANG, AT  
[72] SCHUSTER, GOTTFRIED, AT  
[71] PRODES GMBH, AT  
[85] 2024-01-10  
[86] 2022-07-14 (PCT/EP2022/069759)  
[87] (WO2023/285603)  
[30] AT (A50578/2021) 2021-07-15

[21] **3,225,475**  
[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01) A61K 31/513 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 403/04 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 487/04 (2006.01) C07D 491/048 (2006.01) C07D 491/052 (2006.01)**  
[25] EN  
[54] **HETEROCYCLIC COMPOUNDS AND USES THEREOF**  
[54] **COMPOSES HETEROCYCLIQUES ET LEURS UTILISATIONS**  
[72] MAO, LONG, US  
[72] TANG, WEI, CN  
[72] ZHANG, XIAOYING, CN  
[72] XU, RONGDA, US  
[72] CHEN, YILE, CN  
[72] XU, XIAO, US  
[72] XU, CHANGXU, CN  
[71] ACEA THERAPEUTICS, INC., US  
[71] HANGZHOU ACEA PHARMACEUTICAL RESEARCH CO., LTD., CN  
[85] 2024-01-10  
[86] 2022-07-12 (PCT/US2022/036815)  
[87] (WO2023/287783)  
[30] CN (PCT/CN2021/106076) 2021-07-13  
[30] CN (PCT/CN2022/098577) 2022-06-14

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[21] **3,225,477**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4436 (2006.01)**

[25] EN

[54] **PHARMACEUTICALLY ACCEPTABLE SALT OF MOR RECEPTOR AGONIST, AND POLYMORPH THEREOF AND USE THEREOF**

[54] **SEL PHARMACEUTIQUEMENT ACCEPTABLE D'UN AGONISTE DU RECEPTEUR MOR, POLYMORPHE DE CELUI-CI ET UTILISATION ASSOCIEE**

[72] DAN, ZHAOLING, CN  
[72] JIANG, TAOTAO, CN  
[72] WANG, JIBIAO, CN  
[72] QIANG, JINLEI, CN  
[71] SHANGHAI HAIYAN PHARMACEUTICAL TECHNOLOGY CO. LTD, CN

[71] YANGTZE RIVER PHARMACEUTICAL GROUP CO., LTD., CN

[85] 2024-01-10  
[86] 2022-07-13 (PCT/CN2022/105473)  
[87] (WO2023/284788)  
[30] CN (202110788712.4) 2021-07-13

[21] **3,225,478**  
[13] A1

[51] **Int.Cl. F16L 9/04 (2006.01) B32B 1/08 (2006.01) F16L 9/128 (2006.01) F16L 9/147 (2006.01) F16L 9/153 (2006.01) F16L 11/10 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR REINFORCING HIGH-TEMPERATURE, HIGH PRESSURE PIPE**

[54] **SYSTEMES ET PROCEDES DE RENFORCEMENT DE TUYAU A HAUTE TEMPERATURE ET HAUTE PRESSION**

[72] O'LEARY, JOHN, US  
[72] MATHES, GEORGE, US  
[71] NEXT COMPOSITE SOLUTIONS, INC., US

[85] 2024-01-10  
[86] 2022-07-13 (PCT/US2022/073674)  
[87] (WO2023/288244)  
[30] US (63/222,175) 2021-07-15

[21] **3,225,481**  
[13] A1

[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/9789 (2017.01)**

[25] FR

[54] **COSMETIC APPLICATION OF VINIFERINE**

[54] **APPLICATION COSMETIQUE DE LA VINIFERINE**

[72] THOMAS, MATHILDE, FR  
[72] THOMAS, BERTRAND, FR  
[71] TOMCAT INTERNATIONAL LIMITED, GB

[85] 2024-01-10  
[86] 2022-08-02 (PCT/EP2022/071615)  
[87] (WO2023/012133)  
[30] FR (21/08421) 2021-08-03

[21] **3,225,483**  
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01)**

[25] EN

[54] **METHOD FOR MAKING PRECURSORS OF CATHODE ACTIVE MATERIALS FOR LITHIUM ION BATTERIES**

[54] **METHODE DE FABRICATION DE PRECURSEURS DE MATERIAUX ACTIFS DE CATHODE POUR BATTERIES AU LITHIUM-ION**

[72] BEIERLING, THORSTEN, DE  
[72] FRISCHHUT, SABINE, DE  
[72] RAULS, MATTHIAS, DE  
[72] METZGER, LUKAS KARL, DE  
[72] WEIGUNY, SABINE, DE  
[72] LENNARTZ, MICHAEL, DE  
[72] BERK, RAFAEL BENJAMIN, DE  
[71] BASF SE, DE

[85] 2024-01-10  
[86] 2022-07-12 (PCT/EP2022/069469)  
[87] (WO2023/285464)  
[30] EP (21186219.8) 2021-07-16  
[30] EP (21198018.0) 2021-09-21

[21] **3,225,484**  
[13] A1

[51] **Int.Cl. F03B 7/00 (2006.01) F03B 11/02 (2006.01)**

[25] EN

[54] **CELLULAR AND/OR BLADED WHEEL ASSEMBLY**

[54] **ENSEMBLE DE ROUES CELLULAIRES ET/OU ROUES A AUBES**

[72] KOSSIN, FLORIAN, DE  
[71] ACTIOEVENT GMBH, DE

[85] 2024-01-10  
[86] 2022-07-12 (PCT/EP2022/069106)  
[87] (WO2023/285309)  
[30] DE (10 2021 117 952.1) 2021-07-12

[21] **3,225,488**  
[13] A1

[51] **Int.Cl. E01F 15/08 (2006.01)**

[25] EN

[54] **VEHICLE RESTRAINT SYSTEM HAVING A CONCRETE BARRIER WALL**

[54] **SYSTEME DE RETENUE DE VEHICULE COMPRENANT UNE GLISSIERE EN BETON**

[72] EDL, THOMAS, AT  
[71] DELTA BLOC INTERNATIONAL GMBH, AU

[85] 2024-01-10  
[86] 2022-07-21 (PCT/EP2022/070512)  
[87] (WO2023/001972)  
[30] AT (A 50608/2021) 2021-07-22

[21] **3,225,489**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/40 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF CANCER**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DU CANCER**

[72] CHATTERJEE, SUBROTO, US  
[71] THE JOHNS HOPKINS UNIVERSITY, US

[85] 2024-01-10  
[86] 2022-08-10 (PCT/US2022/074785)  
[87] (WO2023/019186)  
[30] US (63/231,694) 2021-08-10

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[21] **3,225,490**  
[13] A1

[51] **Int.Cl. C01G 53/10 (2006.01) C22B 3/08 (2006.01) C22B 3/44 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING HIGH PURITY NICKEL SULFATE**

[54] **METHODE DE FABRICATION DE SULFATE DE NICKEL DE PURETE ELEVEE**

[72] HONDA, TOMOHIRO, JP

[72] ZHANG, ANYU, JP

[72] YOKOTA, MASAYUKI, JP

[72] TAGAMI, NOBUYUKI, JP

[71] TODA KOGYO CORP., JP

[85] 2024-01-10

[86] 2022-07-07 (PCT/JP2022/026911)

[87] (WO2023/286683)

[30] JP (2021-118343) 2021-07-16

[21] **3,225,492**  
[13] A1

[51] **Int.Cl. C01D 15/06 (2006.01) C01G 51/10 (2006.01) C01G 53/10 (2006.01) C22B 3/44 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING LITHIUM SULFATE AND TRANSITION METAL SULFATE**

[54] **PROCEDE DE PRODUCTION DE SULFATE DE LITHIUM ET DE SULFATE DE METAL DE TRANSITION**

[72] HONDA, TOMOHIRO, JP

[72] ZHANG, ANYU, JP

[72] YOKOTA, MASAYUKI, JP

[72] TAGAMI, NOBUYUKI, JP

[71] TODA KOGYO CORP., JP

[85] 2024-01-10

[86] 2022-07-07 (PCT/JP2022/026912)

[87] (WO2023/286684)

[30] JP (2021-118344) 2021-07-16

[21] **3,225,494**  
[13] A1

[51] **Int.Cl. H01L 33/04 (2010.01) H01L 33/44 (2010.01) G06N 20/00 (2019.01)**

[25] EN

[54] **INTEGRATED OPTOELECTRONIC DEVICES FOR LIGHTING AND DISPLAY APPLICATIONS**

[54] **DISPOSITIFS OPTOELECTRONIQUES INTEGRES POUR APPLICATIONS D'ECLAIRAGE ET D'AFFICHAGE**

[72] NAMIN, AFSHIN SHAHALIZAD, CA

[72] PAHLEVANINEZHAD, HAMID, CA

[72] SCHLEVANINEZHAD, MAJID, CA

[72] SCHERWITZ, SAM, CA

[71] 10644137 CANADA INC., CA

[85] 2024-01-10

[86] 2021-07-12 (PCT/CA2021/050957)

[87] (WO2023/283715)

[21] **3,225,497**  
[13] A1

[51] **Int.Cl. C08G 63/199 (2006.01) C08G 63/181 (2006.01) C08G 63/672 (2006.01) C08G 63/78 (2006.01) C08G 63/91 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PRODUCTION OF POLYESTER COPOLYMERS**

[54] **PROCEDE DE PRODUCTION DE COPOLYMERES DE POLYESTER**

[72] WANG, BING, NL

[72] GRUTER, GERARDUS JOHANNES MARIA, NL

[72] VAN PUTTEN, ROBERT-JAN, NL

[71] AVANTIUM KNOWLEDGE CENTRE B.V., NL

[85] 2024-01-10

[86] 2022-08-01 (PCT/EP2022/071578)

[87] (WO2023/012117)

[30] EP (21189198.1) 2021-08-02

[21] **3,225,500**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01)**

[25] EN

[54] **PARG INHIBITORY COMPOUNDS**

[54] **COMPOSES INHIBITEURS DE PARG**

[72] LUECKING, ULRICH, DE

[72] GOUTOPOULOS, ANDREAS, US

[72] TIAN, JIN, CN

[72] SOTIRIOU, SOTIRIOS, CH

[72] IACOVINO, LUCA, CH

[72] FREUDENMANN, ALENA, CH

[72] QUEROLLE, OLIVIER, CH

[71] FORX THERAPEUTICS AG, CH

[85] 2024-01-10

[86] 2022-10-03 (PCT/EP2022/077470)

[87] (WO2023/057389)

[30] US (63/251,916) 2021-10-04

[30] EP (21204879.7) 2021-10-26

[30] EP (21217026.0) 2021-12-22

[30] US (63/321,955) 2022-03-21

[30] US (63/390,855) 2022-07-20

[21] **3,225,503**  
[13] A1

[51] **Int.Cl. A43B 9/02 (2006.01) A43B 9/06 (2006.01) A43B 13/28 (2006.01)**

[25] EN

[54] **FOOTWEAR WITH BINDING TO COUPLE OUTSOLE AND UPPER**

[54] **ARTICLE CHAUSSANT AVEC LIAISON POUR COUPLER LA SEMELLE D'USURE ET LA TIGE**

[72] HARMON, JEROD LYNN, US

[71] VANS, INC., US

[85] 2024-01-10

[86] 2022-07-28 (PCT/US2022/038703)

[87] (WO2023/009743)

[30] US (63/227,701) 2021-07-30

[21] **3,225,505**  
[13] A1

[51] **Int.Cl. E05D 15/10 (2006.01)**

[25] EN

[54] **AMS DOOR SYSTEM**

[54] **SYSTEME DE PORTE AMS**

[72] ASJES, HILBRAND HANS, NL

[71] OAHU B.V., NL

[71] VENTURA SYSTEMS C.V., NL

[85] 2024-01-10

[86] 2022-07-12 (PCT/EP2022/069477)

[87] (WO2023/285468)

[30] NL (2028697) 2021-07-12

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[21] **3,225,509**  
[13] A1

[51] **Int.Cl. G06N 10/40 (2022.01)**  
[25] EN  
[54] **QUANTUM COMPUTER BASED ON MANIPULATION OF ION CHAINS**  
[54] **ORDINATEUR QUANTIQUE SE FONDANT SUR LA MANIPULATION DE CHAINES IONIQUES**  
[72] KIM, JUNGSANG, US  
[72] MIZRAHI, JONATHAN ALBERT, US  
[72] AMINI, JASON MADJDI, US  
[72] WRIGHT, KENNETH, US  
[72] PISENTI, NEAL, US  
[72] UYS, HERMANN, US  
[72] LI, MING, US  
[72] GOLDMAN, MICHAEL LURIE, US  
[72] SAGE, JEREMY MATTHEW, US  
[72] HUDEK, KAI MAKOTO, US  
[72] NAM, YUNSEONG, US  
[72] GRZESIAK, NIKODEM, US  
[72] BLUMEL, REINHOLD, US  
[71] IONQ, INC., US  
[71] DUKE UNIVERSITY, US  
[85] 2024-01-10  
[86] 2022-08-19 (PCT/US2022/075213)  
[87] (WO2023/172337)  
[30] US (63/260,441) 2021-08-19  
[30] US (17/890,864) 2022-08-18

[21] **3,225,511**  
[13] A1

[51] **Int.Cl. A61K 31/445 (2006.01) A61P 43/00 (2006.01)**  
[25] EN  
[54] **METHODS OF TREATING FABRY DISEASE IN PEDIATRIC PATIENTS**  
[54] **METHODES DE TRAITEMENT DE LA MALADIE DE FABRY CHEZ DES PATIENTS PEDIATRIQUES**  
[72] JOHNSON, FRANKLIN, US  
[71] AMICUS THERAPEUTICS, INC., US  
[85] 2024-01-10  
[86] 2022-07-12 (PCT/US2022/073626)  
[87] (WO2023/288210)  
[30] US (63/220,816) 2021-07-12

[21] **3,225,512**  
[13] A1

[51] **Int.Cl. B62B 3/10 (2006.01) B62B 5/04 (2006.01) B62B 5/06 (2006.01)**  
[25] EN  
[54] **TROLLEY**  
[54] **CHARIOT**  
[72] HAYWARD, TOM, GB  
[72] HORNER, LIAM, GB  
[72] PARTRIDGE, MATTHEW, GB  
[71] ARMORGARD HOLDINGS LIMITED, GB  
[85] 2024-01-10  
[86] 2022-09-02 (PCT/GB2022/052251)  
[87] (WO2023/047082)  
[30] GB (2113661.9) 2021-09-24

[21] **3,225,516**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/11 (2006.01) A61F 2/00 (2006.01) A61F 2/02 (2006.01) A61L 27/52 (2006.01) A61L 27/58 (2006.01) A61N 1/05 (2006.01) A61N 1/20 (2006.01) A61N 1/32 (2006.01) A61N 1/36 (2006.01) A61N 1/40 (2006.01)**  
[25] EN  
[54] **METHODS AND DEVICES FOR NERVE REGENERATION**  
[54] **PROCEDES ET DISPOSITIFS DE REGENERATION NERVEUSE**  
[72] BRIGHT, CORINNE, US  
[72] REN, YONG, US  
[72] MARTIN, KEN, US  
[72] CAMPBELL, SOPHIA MICHELA, US  
[71] TULAVI THERAPEUTICS, INC., US  
[85] 2024-01-10  
[86] 2022-07-12 (PCT/US2022/073639)  
[87] (WO2023/288218)  
[30] US (63/221,871) 2021-07-14

[21] **3,225,519**  
[13] A1

[51] **Int.Cl. C10L 1/195 (2006.01)**  
[25] EN  
[54] **FUEL OIL COMPOSITIONS, AND METHODS AND USES RELATING THERETO**  
[54] **COMPOSITIONS DE MAZOUT ET PROCEDES ET UTILISATIONS ASSOCIES**  
[72] STARK, JOSEPH L., US  
[72] BIGGERSTAFF, PAUL J., US  
[71] INNOSPEC LIMITED, GB  
[85] 2024-01-10  
[86] 2022-07-08 (PCT/GB2022/051761)  
[87] (WO2023/285786)  
[30] US (63/222,828) 2021-07-16  
[30] GB (2111108.3) 2021-08-02

[21] **3,225,522**  
[13] A1

[51] **Int.Cl. H01J 49/14 (2006.01) H01J 49/06 (2006.01)**  
[25] EN  
[54] **AN ELECTRON IMPACT IONIZATION WITHIN RADIO FREQUENCY CONFINEMENT FIELDS**  
[54] **IONISATION PAR IMPACT D'ELECTRONS DANS DES CHAMPS DE CONFINEMENT RADIOFREQUENCE**  
[72] JAVAHERY, GHOLAMREZA, CA  
[72] JOZIF, FADI, CA  
[72] SHAHABI, BABAK, CA  
[72] PASHAEI, FARSHID, CA  
[71] QUADROCORE CORP., CA  
[85] 2024-01-10  
[86] 2022-07-11 (PCT/CA2022/051076)  
[87] (WO2023/283726)  
[30] US (63/220,718) 2021-07-12

[21] **3,225,523**  
[13] A1

[51] **Int.Cl. H01M 50/358 (2021.01) H01M 50/211 (2021.01) H01M 50/249 (2021.01) H01M 50/35 (2021.01) H01M 50/383 (2021.01)**  
[25] EN  
[54] **BATTERY MODULE, AND BATTERY PACK AND VEHICLE COMPRISING THE SAME**  
[54] **MODULE DE BATTERIE, ET BLOC-BATTERIE ET VEHICULE LES COMPRENANT**  
[72] JANG, SUNG-HWAN, KR  
[72] SEONG, JUN-YEOP, KR  
[72] PARK, MYUNG-KI, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2024-01-10  
[86] 2023-01-12 (PCT/KR2023/000610)  
[87] (WO2023/229139)  
[30] KR (10-2022-0064723) 2022-05-26

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[21] **3,225,526**  
[13] A1

[51] **Int.Cl. C08G 69/24 (2006.01) A61K 47/59 (2017.01) A61K 47/64 (2017.01) C08G 69/10 (2006.01) C08G 69/36 (2006.01)**

[25] EN

[54] **STAR-SHAPED PASP-OLIGOAMINE DERIVATIVES**

[54] **DERIVES DE PASP-OLIGOAMINE EN ETOILE**

[72] HERRERA MUNOZ, LIDIA, ES

[72] DOLZ PEREZ, IRENE, ES

[72] FELIP LEON, CARLES, ES

[72] NEBOT CARDIA, VICENT JOSEP, ES

[72] VICENT DOCON, MARIA JESUS, ES

[71] POLYPEPTIDE THERAPEUTIC SOLUTIONS, S.L., ES

[85] 2024-01-10

[86] 2022-07-22 (PCT/EP2022/070604)

[87] (WO2023/002012)

[30] EP (21382666.2) 2021-07-22

[21] **3,225,527**  
[13] A1

[51] **Int.Cl. A47C 7/00 (2006.01) A47C 7/46 (2006.01) A47C 7/50 (2006.01) A47C 7/54 (2006.01) A47C 7/62 (2006.01)**

[25] EN

[54] **ZERO-GRAVITY AND ZERO-WALL CHAIR FRAME**

[54] **CADRE DE SIEGE A GRAVITE NULLE S'APPUYANT CONTRE UNE PAROI SANS ESPACE INTERMEDIAIRE ENTRE EUX**

[72] TAN, CHANGMING, CN

[71] DONGGUAN CITY RUIHAO FURNITURE MANUFACTURING CO., LTD., CN

[85] 2024-01-10

[86] 2022-07-18 (PCT/CN2022/106231)

[87] (WO2024/000671)

[30] CN (202210748382.0) 2022-06-29

[21] **3,225,530**  
[13] A1

[51] **Int.Cl. G05F 1/325 (2006.01) G05F 1/30 (2006.01)**

[25] EN

[54] **RESONANT CORE POWER SUPPLY**

[54] **ALIMENTATION ELECTRIQUE A NOYAU RESONANT**

[72] CARDEN, PATRICK, US

[71] CARDEN, PATRICK, US

[85] 2024-01-10

[86] 2021-05-25 (PCT/US2021/033976)

[87] (WO2022/035487)

[30] US (16/988,621) 2020-08-08

[30] US (17/027,985) 2020-09-22

[21] **3,225,531**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61P 31/12 (2006.01)**

[25] EN

[54] **PROCESS FOR THE CATALYTIC GLYCOSYLATION OF ARENES**

[54] **PROCEDE DE GLYCOSYLATION CATALYTIQUE D'ARENES**

[72] LIST, BENJAMIN, DE

[72] OBRADORS, CARLA, BE

[72] MITSCHKE, BENJAMIN, DE

[72] AUKLAND, MILES, DE

[71] STUDIENGESELLSCHAFT KOHLE GGMBH, DE

[85] 2024-01-10

[86] 2022-07-26 (PCT/EP2022/070996)

[87] (WO2023/011994)

[30] EP (21189383.9) 2021-08-03

[21] **3,225,532**  
[13] A1

[51] **Int.Cl. B42D 25/387 (2014.01) B42D 25/29 (2014.01) B42D 25/373 (2014.01) G07D 7/1205 (2016.01)**

[25] EN

[54] **SECURITY FEATURE AND METHOD FOR THE DETECTION THEREOF, AND SECURITY OR VALUE DOCUMENT**

[54] **ELEMENT DE SECURITE ET SON PROCEDE DE DETECTION, ET DOCUMENT DE SECURITE OU DE VALEUR**

[72] DEICHSEL, ANDREAS, DE

[72] KULIKOVSKY, LAZAR, DE

[72] PETERS, FLORIAN, DE

[71] BUNDESDRUCKEREI GMBH, DE

[85] 2024-01-10

[86] 2022-07-15 (PCT/DE2022/100509)

[87] (WO2023/006142)

[30] DE (10 2021 119 436.9) 2021-07-27

[21] **3,225,533**  
[13] A1

[51] **Int.Cl. A47G 19/02 (2006.01) C09K 5/06 (2006.01)**

[25] EN

[54] **CROCKERY COMPRISING MICROWAVE-ACTIVATABLE PHASE-CHANGE MATERIAL**

[54] **VAISSELLE COMPRENANT UN MATERIAU A CHANGEMENT DE PHASE ACTIVABLE PAR MICRO-ONDES**

[72] REDJAL, KARIM, BE

[72] MERTENS, PASCAL GABRIELLE NESTOR, BE

[71] PROMECO NV, BE

[85] 2024-01-10

[86] 2022-07-13 (PCT/IB2022/056455)

[87] (WO2023/285985)

[30] BE (BE2021/5551) 2021-07-16

[21] **3,225,534**  
[13] A1

[51] **Int.Cl. A23L 13/00 (2016.01) C12N 5/077 (2010.01) A61L 27/20 (2006.01) A61L 27/36 (2006.01) A61L 27/38 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **CELL CULTURE MEDIUM AND SUPPLEMENTS FOR CELLULAR MEAT PRODUCTION**

[54] **MILIEU DE CULTURE CELLULAIRE ET COMPLEMENTES POUR LA PRODUCTION DE VIANDE CELLULAIRE**

[72] CONNON, CHE JOHN, GB

[72] GOUVEIA, RICARDO, GB

[71] 3D BIO-TISSUES LIMITED, GB

[85] 2024-01-10

[86] 2022-07-12 (PCT/GB2022/051808)

[87] (WO2023/285813)

[30] GB (2110036.7) 2021-07-12



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[21] **3,225,535**  
[13] A1

[51] **Int.Cl. A61L 27/38 (2006.01) C12N 5/00 (2006.01)**  
[25] EN  
[54] **CELL CULTURE MEDIUM AND SUPPLEMENTS FOR CORNEAL AND SKIN CELL CULTURE**  
[54] **MILIEU DE CULTURE CELLULAIRE ET COMPLEMENTS POUR LA CULTURE DE CELLULES CORNEENNES ET CUTANEEES**  
[72] CONNON, CHE JOHN, GB  
[72] GOUVEIA, RICARDO, GB  
[71] 3D BIO-TISSUES LIMITED, GB  
[85] 2024-01-10  
[86] 2022-07-12 (PCT/GB2022/051811)  
[87] (WO2023/285816)  
[30] GB (2110035.9) 2021-07-12

[21] **3,225,597**  
[13] A1

[51] **Int.Cl. H04W 64/00 (2009.01) H04W 76/14 (2018.01)**  
[25] EN  
[54] **METHODS AND APPARATUSES FOR SIDELINK POSITIONING**  
[54] **PROCEDES ET APPAREILS DE POSITIONNEMENT DE LIAISON LATERALE**  
[72] HU, JIE, CN  
[72] HAN, JING, CN  
[72] WANG, HAIMING, CN  
[72] WU, LIANHAI, CN  
[72] YU, XIAODONG, CN  
[71] LENOVO (BEIJING) LIMITED, CN  
[85] 2024-01-11  
[86] 2021-09-24 (PCT/CN2021/120426)  
[87] (WO2023/044791)

[21] **3,225,604**  
[13] A1

[51] **Int.Cl. C12Q 1/6811 (2018.01) C12Q 1/6869 (2018.01)**  
[25] EN  
[54] **ALL-IN-ONE RNA SEQUENCING ASSAY AND USES THEREOF**  
[54] **DOSAGE DE SEQUENCAGE D'ARN TOUT-EN-UN ET SES UTILISATIONS**  
[72] SLOTKIN, R. KEITH, US  
[72] MEYERS, BLAKE, US  
[72] KRAMER, MARIANNE, US  
[71] DONALD DANFORTH PLANT SCIENCE CENTER, US  
[85] 2024-01-11  
[86] 2022-07-20 (PCT/US2022/073956)  
[87] (WO2023/004358)  
[30] US (63/223,664) 2021-07-20

[21] **3,225,575**  
[13] A1

[51] **Int.Cl. A61P 31/14 (2006.01) C07K 16/10 (2006.01)**  
[25] EN  
[54] **ANTI-SARS-COV-2-SPIKE GLYCOPROTEIN ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS**  
[54] **ANTICORPS ANTI-GLYCOPROTEINE DE SPICULE DU SARS-COV-2 ET FRAGMENTS DE LIAISON A L'ANTIGENE**  
[72] BAUM, ALINA, US  
[72] KYRATSOUS, CHRISTOS, US  
[72] YANCOPOULOS, GEORGE D., US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2024-01-11  
[86] 2022-07-13 (PCT/US2022/036950)  
[87] (WO2023/287875)  
[30] US (63/221,846) 2021-07-14  
[30] US (63/245,020) 2021-09-16  
[30] US (63/286,514) 2021-12-06  
[30] US (63/289,126) 2021-12-13  
[30] US (63/289,419) 2021-12-14  
[30] US (63/291,328) 2021-12-17  
[30] US (63/301,002) 2022-01-19  
[30] US (63/306,909) 2022-02-04  
[30] US (63/354,632) 2022-06-22

[21] **3,225,599**  
[13] A1

[51] **Int.Cl. E04C 3/292 (2006.01)**  
[25] EN  
[54] **A COMPOSITE FLOOR BEAM**  
[54] **POUTRE DE PLANCHER COMPOSITE**  
[72] LEUNG FOR SANG, MR FAT KEE, GB  
[71] LEUNG FOR SANG, MR FAT KEE, GB  
[85] 2024-01-11  
[86] 2022-07-14 (PCT/GB2022/051822)  
[87] (WO2023/285823)  
[30] GB (2110149.8) 2021-07-14

[21] **3,225,605**  
[13] A1

[51] **Int.Cl. G06F 9/4401 (2018.01) G06F 9/455 (2018.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR VEHICLE DATA FILE PLAYBACK**  
[54] **PROCEDE ET SYSTEME DE LECTURE DE FICHER DE DONNEES DE VEHICULE**  
[72] LUDWIG, SUE HSIU YING, CA  
[72] ALI OSMAN, HOUFFANEH, CA  
[71] BLACKBERRY LIMITED, CA  
[85] 2024-01-11  
[86] 2022-09-14 (PCT/US2022/043491)  
[87] (WO2023/049005)  
[30] US (17/480,801) 2021-09-21

[21] **3,225,602**  
[13] A1

[51] **Int.Cl. B63B 32/73 (2020.01) B60K 28/04 (2006.01) B63H 21/21 (2006.01) B63B 34/10 (2020.01)**  
[25] EN  
[54] **LEASH SYSTEM AND METHODS OF USE**  
[54] **SYSTEME DE LAISSE ET PROCEDES D'UTILISATION**  
[72] MONTAGUE, DONALD LEWIS, US  
[72] STROETZEL, MERTEN, US  
[72] BROCK, JOSEPH ANDREW, US  
[72] KORVER, ALEC, US  
[71] KAI CONCEPTS, LLC, US  
[85] 2024-01-11  
[86] 2022-07-06 (PCT/US2022/036179)  
[87] (WO2023/287616)  
[30] US (17/374,218) 2021-07-13

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[21] **3,225,608**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**  
[25] FR  
[54] **QUANTATIVE ANALYSIS OF FLUCTUATIONS IN BIOLOGICAL TISSUES VIA MULTISPECTRAL PHOTOACOUSTIC IMAGING**  
[54] **ANALYSE QUANTITATIVE DE FLUCTUATIONS DANS DES TISSUS BIOLOGIQUES PAR IMAGERIE PHOTOACOUSTIQUE MULTISPECTRALE**  
[72] ARNAL, BASTIEN, FR  
[72] BOSSY, EMMANUEL, FR  
[72] GODEFROY, GUILLAUME, FR  
[71] UNIVERSITE GRENOBLE ALPES, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[85] 2024-01-11  
[86] 2022-07-20 (PCT/FR2022/051444)  
[87] (WO2023/012416)  
[30] FR (2108452) 2021-08-03

[21] **3,225,609**  
[13] A1

[51] **Int.Cl. A61K 35/745 (2015.01) A61P 1/04 (2006.01) A61P 1/12 (2006.01)**  
[25] EN  
[54] **POSTBIOTIC**  
[54] **POSTBIOTIQUE**  
[72] JOHNSON, KATJA, CH  
[72] BENYACOUB, JALIL, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2024-01-11  
[86] 2022-08-18 (PCT/EP2022/073085)  
[87] (WO2023/021141)  
[30] EP (21192227.3) 2021-08-19

[21] **3,225,610**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/63 (2006.01) C12N 15/86 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS FOR AND METHODS OF IMPROVING VIRAL VECTORS**  
[54] **COMPOSITIONS ET PROCEDES D'AMELIORATION DE VECTEURS VIRAUX**  
[72] KANTOR, BORIS, US  
[72] CHIBA-FALEK, ORNIT, US  
[72] MONCALVO, MALIK, US  
[71] DUKE UNIVERSITY, US  
[85] 2024-01-11  
[86] 2022-07-13 (PCT/US2022/073682)  
[87] (WO2023/288247)  
[30] US (63/221,167) 2021-07-13

[21] **3,225,613**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61P 27/02 (2006.01) C07K 14/71 (2006.01) A61K 45/06 (2006.01)**  
[25] EN  
[54] **ACTRII PROTEINS AND USES THEREOF**  
[54] **PROTEINES ACTRII ET LEURS UTILISATIONS**  
[72] DE OLIVEIRA PENA, JANETHE, US  
[71] ACCELERON PHARMA, INC., US  
[85] 2024-01-11  
[86] 2022-07-18 (PCT/US2022/037479)  
[87] (WO2023/003815)  
[30] US (63/223,265) 2021-07-19

[21] **3,225,618**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 10/00 (2006.01) A61B 17/20 (2006.01) A61M 5/32 (2006.01)**  
[25] FR  
[54] **APPARATUS FOR INJECTION IN THE SKIN BY SUPERFICIAL INCISION, AND ITS LOADING ASSEMBLY**  
[54] **APPAREIL POUR INJECTION DANS LA PEAU PAR INCISION SUPERFICIELLE ET SON ENSEMBLE DE CHARGEMENT**  
[72] SOURISSEAU, THIERRY, FR  
[71] A2M, FR  
[85] 2024-01-11  
[86] 2022-07-19 (PCT/FR2022/051434)  
[87] (WO2023/002118)  
[30] FR (FR2107823) 2021-07-20

[21] **3,225,626**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01)**  
[25] EN  
[54] **RECOMBINANT VARIANTS OF R-SPONDIN PROTEINS AND THEIR USE**  
[54] **VARIANTS RECOMBINANTS DE PROTEINES R-SPONDINE ET LEUR UTILISATION**  
[72] COLLOMBAT, PATRICK, FR  
[72] BOTTI, PAOLO, FR  
[71] DIOGENX, FR  
[71] INSERM PARIS, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR  
[71] UNIVERSITE COTE D'AZUR, FR  
[85] 2024-01-11  
[86] 2022-07-15 (PCT/EP2022/069925)  
[87] (WO2023/285686)  
[30] EP (21305993.4) 2021-07-15  
[30] EP (22305328.1) 2022-03-18

[21] **3,225,627**  
[13] A1

[51] **Int.Cl. B21D 37/16 (2006.01) B21D 39/00 (2006.01) B21D 39/03 (2006.01) B21D 39/04 (2006.01) E04C 5/00 (2006.01) E04C 5/08 (2006.01) E04C 5/16 (2006.01) E04G 21/12 (2006.01)**  
[25] EN  
[54] **PORTABLE HOT SWAGED COUPLING DEVICE FOR CONNECTING ARTICLES**  
[54] **DISPOSITIF DE COUPLAGE SERTI A CHAUD PORTABLE POUR RELIER DES ARTICLES**  
[72] MEYER, JOHN, US  
[72] NICHOLS, BENJAMIN C., US  
[71] GAGE MEYER ENGINEERS, PC, US  
[85] 2024-01-11  
[86] 2022-07-18 (PCT/US2022/037428)  
[87] (WO2023/003795)  
[30] US (17/380,701) 2021-07-20

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[51] <b>Int.Cl. G01N 30/86 (2006.01) G01N 33/569 (2006.01) G01N 33/68 (2006.01)</b>	[51] <b>Int.Cl. C07D 207/08 (2006.01) C07D 207/27 (2006.01) C07D 207/38 (2006.01)</b>	[51] <b>Int.Cl. C25B 9/05 (2021.01) H01M 8/248 (2016.01) C25B 9/73 (2021.01) C25B 9/77 (2021.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>IDENTIFICATION OF MICROORGANISMS BASED ON IDENTIFICATION OF PEPTIDES USING A LIQUID SEPARATION DEVICE COUPLED WITH A MASS SPECTROMETER AND PROCESSING MEANS</b>	[54] <b>PREPARATION METHOD OF 3- (2, 2, 2-TRIFLUOROETHYL) PYRROLIDINE HYDROCHLORIDE</b>	[54] <b>MOUNTING DEVICE AND USE OF THE MOUNTING DEVICE FOR MOUNTING ELECTROLYSIS CELLS OF AN ELECTROLYSER</b>
[54] <b>IDENTIFICATION DE MICRO-ORGANISMES SUR LA BASE DE L'IDENTIFICATION DE PEPTIDES A L'AIDE D'UN DISPOSITIF DE SEPARATION DE LIQUIDE COUPLE A UN SPECTROMETRE DE MASSE ET MOYEN DE TRAITEMEN</b>	[54] <b>PROCEDE DE PREPARATION DE CHLORHYDRATE DE 3-(2,2,2-TRIFLUOROETHYL)PYRROLIDINE</b>	[54] <b>DISPOSITIF DE MONTAGE ET UTILISATION DU DISPOSITIF DE MONTAGE POUR MONTER DES CELLULES D'ELECTROLYSE D'UN ELECTROLYSEUR</b>
[72] LEMOINE, JEROME, FR	[72] ZHANG, GUANJUN, CN	[72] WOLF, ERIK, DE
[72] GREGSON, MAUD, FR	[72] SHUAI, BAOKUI, CN	[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[72] GIL, JULIE, FR	[72] SHAN, YUQING, CN	[85] 2023-12-28
[72] CARRIERE, ROMAIN, FR	[71] KINNATE BIOPHARMA INC., US	[86] 2022-06-15 (PCT/EP2022/066374)
[72] VANDENESCH, FRANCOIS, FR	[85] 2024-01-11	[87] (WO2023/274731)
[71] UNIVERSITE CLAUDE BERNARD LYON I, FR	[86] 2022-07-18 (PCT/CN2022/106174)	[30] EP (21182760.5) 2021-06-30
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR	[87] (WO2023/001088)	
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR	[30] CN (202110813487.5) 2021-07-19	
[71] ECOLE NORMALE SUPERIEURE DE LYON, FR	[30] CN (202110814726.9) 2021-07-19	
[71] HOSPICES CIVILS DE LYON, FR		
[85] 2024-01-11	[21] 3,225,633 [13] A1	[21] 3,225,637 [13] A1
[86] 2022-07-15 (PCT/EP2022/069857)	[51] <b>Int.Cl. C25B 1/04 (2021.01) C25B 9/73 (2021.01) C25B 15/021 (2021.01)</b>	[51] <b>Int.Cl. A01N 43/12 (2006.01) A01N 43/90 (2006.01) A01P 13/00 (2006.01)</b>
[87] (WO2023/285653)	[25] EN	[25] EN
[30] EP (21305988.4) 2021-07-15	[54] <b>OFFSHORE ELECTROLYSIS PLANT AND METHOD FOR OPERATING AN OFFSHORE ELECTROLYSIS PLANT</b>	[54] <b>HERBICIDAL COMPOSITIONS CONTAINING CINMETHYLIN AND ETHOFUMESATE</b>
	[54] <b>INSTALLATION D'ELECTROLYSE EN MER ET PROCEDE PERMETTANT DE FAIRE FONCTIONNER UNE INSTALLATION D'ELECTROLYSE EN MER</b>	[54] <b>COMPOSITIONS HERBICIDES CONTENANT DE LA CINMETHYLIN ET DE L'ETHOFUMESATE</b>
	[72] HANEBUTH, MARC, DE	[72] AULER, THOMAS, DE
	[72] SUERMANN, MICHEL, DE	[72] BICKERS, UDO, DE
	[72] TAROATA, DAN, DE	[72] TOSSENS, HERVE, DE
	[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE	[71] BAYER AKTIENGESELLSCHAFT, DE
	[85] 2023-12-28	[85] 2023-12-28
	[86] 2022-05-04 (PCT/EP2022/061980)	[86] 2022-06-28 (PCT/EP2022/067648)
	[87] (WO2023/274605)	[87] (WO2023/274998)
	[30] EP (21182686.2) 2021-06-30	[30] EP (21183576.4) 2021-07-02

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[21] **3,225,638**  
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C01G 41/02 (2006.01)**  
[25] EN  
[54] **METHODS FOR DETECTING MODIFIED NUCLEOTIDES**  
[54] **PROCEDES DE DETECTION DE NUCLEOTIDES MODIFIES**  
[72] BALASUBRAMANIAN, SHANKAR, GB  
[72] YAN, TAO, GB  
[71] CAMBRIDGE ENTERPRISE LIMITED, GB  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/EP2022/068096)  
[87] (WO2023/275268)  
[30] GB (2109469.3) 2021-06-30

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[13] A1

[51] **Int.Cl. C12M 1/36 (2006.01) C12M 1/26 (2006.01) C12M 1/32 (2006.01) C12M 3/00 (2006.01)**  
[25] EN  
[54] **REACTOR SYSTEM AND METHODS FOR USING THEREOF**  
[54] **SYSTEME DE REACTEUR ET SES PROCEDES D'UTILISATION**  
[72] CASTILLO, JOSE, BE  
[72] VANDEKERCKHOVE, KRISTOF, BE  
[72] RODRIGUEZ, SEBASTIEN, BE  
[72] MAIRESSE, BASTIEN, BE  
[71] QUANTOOM BIOSCIENCES S.A., BE  
[85] 2023-12-28  
[86] 2022-07-01 (PCT/EP2022/068259)  
[87] (WO2023/275355)  
[30] US (63/217,680) 2021-07-01  
[30] BE (2021/5657) 2021-08-18  
[30] US (63/331,568) 2022-04-15  
[30] US (17/854,536) 2022-06-30

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[13] A1

[51] **Int.Cl. G01F 1/06 (2006.01) A01M 7/00 (2006.01) G01F 1/05 (2006.01) G01F 1/10 (2006.01)**  
[25] EN  
[54] **SPRAY FLOW SENSING WITH OPTICAL SIGNATURE ANALYSIS**  
[54] **DETECTION DE FLUX DE PULVERISATION AVEC ANALYSE DE SIGNATURE OPTIQUE**  
[72] MAURER, GARRETT, US  
[72] JEE, JUSTIN, US  
[72] BJERTNESS, DAN, US  
[72] EICKHOFF, ROSS, US  
[71] INTELLIGENT AGRICULTURAL SOLUTIONS, LLC, US  
[85] 2023-12-28  
[86] 2022-05-20 (PCT/IB2022/054759)  
[87] (WO2023/002263)  
[30] US (63/224,200) 2021-07-21

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[13] A1

[51] **Int.Cl. H01H 13/14 (2006.01) H02J 7/14 (2006.01) H02J 7/34 (2006.01) H02J 9/00 (2006.01) H02J 9/06 (2006.01) H04B 1/16 (2006.01)**  
[25] EN  
[54] **STANDBY POWER CUT-OFF DEVICE**  
[54] **DISPOSITIF DE COUPURE D'ALIMENTATION EN VEILLE**  
[72] KIM, BYONGHO, KR  
[71] KIM, BYONGHO, KR  
[85] 2024-01-11  
[86] 2022-07-05 (PCT/KR2022/009645)  
[87] (WO2023/018012)  
[30] KR (10-2021-0104254) 2021-08-09  
[30] KR (10-2021-0131324) 2021-10-05

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[21] **3,225,649**  
[13] A1

[51] **Int.Cl. F25D 16/00 (2006.01) F25D 1/00 (2006.01) F25D 23/06 (2006.01)**  
[25] EN  
[54] **ECOLOGICAL REFRIGERATION UNIT COOLED WITH OUTDOOR AIR**  
[54] **UNITE DE REFRIGERATION ECOLOGIQUE REFROIDIE PAR DE L'AIR EXTERIEUR**  
[72] SARNE, KARI, FI  
[71] ALLERGIA- JA SISAILMA-APU SARNE OY, FI  
[85] 2024-01-11  
[86] 2022-08-08 (PCT/FI2022/050516)  
[87] (WO2023/031505)  
[30] FI (20215909) 2021-08-31

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[21] **3,225,655**  
[13] A1

[51] **Int.Cl. B01D 53/04 (2006.01) B01D 53/26 (2006.01) F04B 39/16 (2006.01)**  
[25] EN  
[54] **REGENERATION MEANS AND DRYING DEVICE FOR DRYING COMPRESSED GAS**  
[54] **MOYEN DE REGENERATION ET DISPOSITIF DE SECHAGE POUR LE SECHAGE DE GAZ COMPRIME**  
[72] HERMANS, HANS MARIA KAREL, BE  
[71] ATLAS COPCO AIRPOWER, NAAMLOZE VENNOTSHAP, BE  
[85] 2024-01-11  
[86] 2022-07-26 (PCT/EP2022/070929)  
[87] (WO2023/011984)  
[30] BE (BE2021/5615) 2021-08-03  
[30] BE (BE2022/5558) 2022-07-08

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[13] A1

[51] **Int.Cl. C21D 8/02 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/42 (2006.01) C22C 38/44 (2006.01) C22C 38/58 (2006.01)**

[25] EN

[54] **ULTRA-HARD COLD-WORKED STEEL ALLOY**

[54] **ALLIAGE D'ACIER ECROUI A FROID ULTRA-DUR**

[72] KOMAI, RICARDO, US

[72] LOPEZ-GARRITY, OMAR, US

[72] PATTINSON, GRANT, US

[72] KUEHMANN, CHARLES, US

[71] TESLA, INC., US

[85] 2024-01-11

[86] 2022-08-16 (PCT/US2022/040501)

[87] (WO2023/023083)

[30] US (63/234,016) 2021-08-17

[21] **3,225,661**  
[13] A1

[51] **Int.Cl. G01N 33/32 (2006.01) G01N 21/57 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DETERMINING A QUALITY PARAMETER OF A REPRESENTATION OF A COATING COMPOSITION**

[54] **PROCEDE ET SYSTEME DE DETERMINATION D'UN PARAMETRE DE QUALITE D'UNE REPRESENTATION D'UNE COMPOSITION DE REVETEMENT**

[72] KANTIMM, THOMAS, DE

[71] BASF COATINGS GMBH, DE

[85] 2024-01-11

[86] 2022-07-14 (PCT/EP2022/069771)

[87] (WO2023/001691)

[30] EP (21186614.0) 2021-07-20

[21] **3,225,662**  
[13] A1

[51] **Int.Cl. B29D 11/00 (2006.01)**

[25] EN

[54] **METHOD TO MANUFACTURE A MOLD FOR LENSES, AND CORRESPONDING MOLD**

[54] **PROCEDE DE FABRICATION D'UN MOULE POUR LENTILLES, ET MOULE CORRESPONDANT**

[72] PESI, LEONARDO, IT

[71] LEONARDO VISION S.R.L., IT

[85] 2024-01-11

[86] 2022-07-13 (PCT/IT2022/050204)

[87] (WO2023/286099)

[30] IT (102021000018356) 2021-07-13

[21] **3,225,665**  
[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01) A24F 40/485 (2020.01)**

[25] EN

[54] **CARTRIDGE AND AEROSOL GENERATING DEVICE INCLUDING THE SAME**

[54] **CARTOUCHE ET DISPOSITIF DE GENERATION D'AEROSOL LA COMPRENANT**

[72] KIM, TAEHUN, KR

[71] KT&G CORPORATION, KR

[85] 2024-01-11

[86] 2022-08-16 (PCT/KR2022/012177)

[87] (WO2023/027405)

[30] KR (10-2021-0112579) 2021-08-25

[21] **3,225,667**  
[13] A1

[51] **Int.Cl. A01N 25/02 (2006.01) A01N 25/30 (2006.01) A01N 43/40 (2006.01) A01N 43/50 (2006.01) A01N 43/653 (2006.01)**

[25] EN

[54] **LIQUID PROLIPOSOME COMPOSITION OF PLANT PROTECTION AGENTS AND METHOD OF MAKING SAME**

[54] **COMPOSITION DE PROLIPOSOMES LIQUIDES D'AGENTS PHYTOSANITAIRES ET SON PROCEDE DE PREPARATION**

[72] LIPKA, DOMINIK, PL

[72] CYZA, MALGORZATA, PL

[72] ZAWILSKA, PATRYCJA, PL

[71] SYVENTO SP. Z O.O., PL

[85] 2024-01-11

[86] 2022-07-22 (PCT/PL2022/050047)

[87] (WO2023/003485)

[30] PL (P.438569) 2021-07-22

[21] **3,225,668**  
[13] A1

[51] **Int.Cl. A23L 2/60 (2006.01) A23L 29/10 (2016.01) A23L 29/30 (2016.01) A23L 33/12 (2016.01) A23L 33/125 (2016.01) A23L 33/19 (2016.01) A23L 2/66 (2006.01) A61K 9/00 (2006.01) A61K 31/19 (2006.01) A61K 31/733 (2006.01) A61K 38/38 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL OR FOOD SUPPLEMENT FORMULATION CONTAINING ALPHA-LACTALBUMIN AND BUTYRIC ACID OR A SALT THEREOF**

[54] **FORMULATION PHARMACEUTIQUE OU DE COMPLEMENT ALIMENTAIRE CONTENANT DE L'ALPHA-LACTALBUMINE ET DE L'ACIDE BUTYRIQUE OU UN SEL DE CELUI-CI**

[72] MAINARDI, PAOLO, IT

[71] KOLFARMA S.R.L., IT

[85] 2024-01-11

[86] 2022-07-20 (PCT/EP2022/070337)

[87] (WO2023/001883)

[30] IT (102021000019613) 2021-07-23

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[21] <b>3,225,669</b> [13] A1	[21] <b>3,225,671</b> [13] A1	[21] <b>3,225,674</b> [13] A1
[51] <b>Int.Cl. G07F 11/06 (2006.01) G07F 11/26 (2006.01) G07F 11/42 (2006.01) G07F 11/52 (2006.01)</b>	[51] <b>Int.Cl. B22D 13/02 (2006.01) G06T 7/62 (2017.01) B22D 13/10 (2006.01) B22D 13/12 (2006.01)</b>	[51] <b>Int.Cl. C22B 3/04 (2006.01) C22B 3/44 (2006.01) C22B 3/46 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>APPARATUS, METHODS AND SYSTEMS FOR STORING AND CONVEYING ITEMS WITHIN A FOOD DELIVERY APPARATUS</b>	[54] <b>METHOD AND APPARATUS FOR ESTIMATING DIMENSIONAL UNIFORMITY OF CAST OBJECT</b>	[54] <b>METHOD FOR PROCESSING ALLOY</b>
[54] <b>APPAREIL, PROCEDES ET SYSTEMES DE STOCKAGE ET DE TRANSPORT D'ARTICLES A L'INTERIEUR D'UN APPAREIL DE DISTRIBUTION D'ALIMENTS</b>	[54] <b>PROCEDE ET APPAREIL POUR ESTIMER L'UNIFORMITE DIMENSIONNELLE D'UN OBJET COULE</b>	[54] <b>PROCEDE DE TRAITEMENT D'UN ALLIAGE</b>
[72] BRAIDO, DANIEL, US	[72] WATTS, KENNETH J, US	[72] TAKENOUCHI, HIROSHI, JP
[72] WILSON, AUDLEY, US	[72] HOLTZ, STEPHANIE R, US	[72] HEGURI, SHIN-ICHI, JP
[71] ROBOBURGER ENTERPRISES, US	[71] UNITED STATES PIPE AND FOUNDRY COMPANY, LLC, US	[72] ASANO, SATOSHI, JP
[85] 2024-01-11	[85] 2024-01-11	[72] SHOUJI, HIROFUMI, JP
[86] 2022-07-01 (PCT/US2022/035910)	[86] 2022-07-11 (PCT/US2022/036656)	[72] MATSUOKA, ITSUMI, JP
[87] (WO2023/287595)	[87] (WO2023/287691)	[72] SANJO, SHOTA, JP
[30] US (17/375,038) 2021-07-14	[30] US (17/373,145) 2021-07-12	[72] MATSUGI, TAKUMI, JP
		[71] SUMITOMO METAL MINING CO., LTD., JP
		[85] 2024-01-11
		[86] 2022-07-14 (PCT/JP2022/027717)
		[87] (WO2023/002912)
		[30] JP (2021-119365) 2021-07-20
[21] <b>3,225,670</b> [13] A1	[21] <b>3,225,673</b> [13] A1	[21] <b>3,225,678</b> [13] A1
[51] <b>Int.Cl. H01M 50/533 (2021.01) H01M 50/107 (2021.01) H01M 50/167 (2021.01) H01M 50/538 (2021.01) H01M 50/586 (2021.01) H01M 50/593 (2021.01)</b>	[51] <b>Int.Cl. C07D 401/14 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61K 31/444 (2006.01) C07D 409/14 (2006.01) C07D 471/04 (2006.01)</b>	[51] <b>Int.Cl. G16H 50/70 (2018.01) G06Q 10/10 (2023.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>ELECTRODE ASSEMBLY, BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME</b>	[54] <b>ORGANIC PYRIDINE-PYRAZOLE COMPOUNDS AND THEIR USES</b>	[54] <b>SYSTEMS AND METHODS FOR PROVIDING ACCURATE PATIENT DATA CORRESPONDING WITH PROGRESSION MILESTONES FOR PROVIDING TREATMENT OPTIONS AND OUTCOME TRACKING</b>
[54] <b>ENSEMBLE ELECTRODE, BATTERIE, ET BLOC-BATTERIE ET VEHICULE LES COMPRENANT</b>	[54] <b>COMPOSES DE PYRIDINE-PYRAZOLE ORGANIQUES ET LEURS UTILISATIONS</b>	[54] <b>SYSTEMES ET PROCEDES POUR FOURNIR DES DONNEES DE PATIENT PRECISES CORRESPONDANT A DES REPERES DE PROGRESSION POUR FOURNIR DES OPTIONS DE TRAITEMENT ET UN SUIVI DE RESULTATS</b>
[72] LEE, SOON-O, KR	[72] PATIENT, LEE, GB	[72] RITTER, NICHOLAS, US
[72] KONG, JIN-HAK, KR	[72] ALMOND-THYNNE, JOSHUA, GB	[72] JAKUBOWICZ, STEPHEN, US
[72] CHOI, KYU-HYUN, KR	[72] UNSWORTH, PHILIP JAMES, GB	[72] MAO, MENG, US
[72] PARK, JONG-SIK, KR	[72] YIP, ADAM CHRISTOPHER LOY, GB	[72] MULCAHY, MICHAEL, US
[72] LIM, JAE-WON, KR	[72] ROBAS, NICOLA, GB	[72] VELAMoor, SUDHAKAR, US
[72] CHOE, YU-SUNG, KR	[72] BELICH, MONICA POLIDORO, GB	[72] MATTA, MONICA, US
[72] KIM, HAK-KYUN, KR	[71] BENEVOLENTAI CAMBRIDGE LIMITED, GB	[72] WANG, CHING-KUN, US
[72] LEE, JE-JUN, KR	[85] 2024-01-11	[72] HANSON, MICHA, US
[72] LEE, BYOUNG-GU, KR	[86] 2022-07-29 (PCT/GB2022/052009)	[72] CADY, SCOTT, US
[72] RYU, DUK-HYUN, KR	[87] (WO2023/007184)	[72] PAL, TANVI, US
[72] LEE, KWAN-HEE, KR	[30] GB (2110990.5) 2021-07-30	[71] COTA, INC., US
[72] LEE, JAE-EUN, KR		[85] 2024-01-11
[71] LG ENERGY SOLUTION, LTD., KR		[86] 2022-07-13 (PCT/US2022/037017)
[85] 2024-01-11		[87] (WO2023/287920)
[86] 2022-07-19 (PCT/KR2022/010564)		[30] US (17/375,916) 2021-07-14
[87] (WO2023/090576)		
[30] KR (10-2021-0160490) 2021-11-19		
[30] KR (10-2021-0160823) 2021-11-19		

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[21] **3,225,679**  
[13] A1

[51] **Int.Cl. A61L 27/18 (2006.01) C08G 63/664 (2006.01) C08G 65/332 (2006.01)**

[25] EN

[54] **POWDER FORMULATION FOR TISSUE REPAIR, PREPARATION METHOD THEREFOR, AND INJECTABLE COMPOSITION FOR TISSUE REPAIR, COMPRISING SAME**

[54] **FORMULATION DE POUDRE POUR REPARATION TISSULAIRE, SA METHODE DE PREPARATION, ET COMPOSITION INJECTABLE POUR REPARATION TISSULAIRE LA COMPRENANT**

[72] PARK, JI HOON, KR  
[72] YOON, HYE SUNG, KR  
[72] LIM, SOO MEE, KR  
[71] SAMYANG HOLDINGS CORPORATION, KR

[85] 2024-01-11  
[86] 2022-07-21 (PCT/KR2022/010688)  
[87] (WO2023/003384)  
[30] KR (10-2021-0095722) 2021-07-21

[21] **3,225,680**  
[13] A1

[51] **Int.Cl. B29C 48/66 (2019.01) B29C 48/575 (2019.01) B29C 48/67 (2019.01)**

[25] EN

[54] **EXTRUDER MIXER, EXTRUDER MIXING SECTION, EXTRUDER SYSTEM AND METHODS OF USE THEREOF FOR MIXING OF POLYMERS**

[54] **MELANGEUR D'EXTRUDEUSE, SECTION DE MELANGE D'EXTRUDEUSE, SYSTEME D'EXTRUDEUSE ET PROCEDES D'UTILISATION DE CEUX-CI POUR LE MELANGE DE POLYMERES**

[72] LUKER, KEITH, US  
[71] RANDCASTLE EXTRUSION SYSTEMS, INC., US

[85] 2024-01-11  
[86] 2022-06-10 (PCT/US2022/032998)  
[87] (WO2022/261430)  
[30] US (63/209,591) 2021-06-11

[21] **3,225,681**  
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01)**

[25] EN

[54] **NOVEL FAB DIMERS**

[54] **NOUVEAUX DIMERES FAB**

[72] ZEIDLER, REINHARD, DE

[71] HELMHOLTZ ZENTRUM MUENCHEN DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT (GMBH), DE

[85] 2024-01-11  
[86] 2022-07-13 (PCT/EP2022/069594)  
[87] (WO2023/285525)  
[30] EP (21185562.2) 2021-07-14

[21] **3,225,682**  
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61K 47/68 (2017.01) A61K 38/19 (2006.01) A61K 38/20 (2006.01) A61K 39/395 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 14/54 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/11 (2006.01) C12N 15/13 (2006.01) C12N 15/24 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **ANTI-EGFRVIII ANTIBODY, POLYPEPTIDE, CELL CAPABLE OF EXPRESSING SAID POLYPEPTIDE, PHARMACEUTICAL COMPOSITION COMPRISING SAID CELL, METHOD FOR PRODUCING SAID CELL, AND POLYNUCLEOTIDE OR VECTOR COMPRISING NUCLEOTIDE SEQUENCE ENCODING SAID POLYPEPTID**

[54] **ANTIGENE ANTI-?????????, POLYPEPTIDE, CELLULE EXPRIMENT LEDIT POLYPEPTIDE, COMPOSITION PHARMACEUTIQUE CONTENANT LADITE CELLULE, PROCEDE DE FABRICATION DE LADITE CELLULE, ET POLYNUCLEOTIDE OU VECTEUR CONTENANT UNE SEQUENCE DES BASES CODANT LEDIT POLYPEPTID**

[72] TAMADA, KOJI, JP  
[72] SAKODA, YUKIMI, JP  
[72] ADACHI, KEISHI, JP  
[71] NOILE-IMMUNE BIOTECH, INC., JP

[85] 2024-01-11  
[86] 2022-07-14 (PCT/JP2022/027735)  
[87] (WO2023/286840)  
[30] JP (2021-118056) 2021-07-16

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[21] **3,225,683**  
[13] A1

[51] **Int.Cl. B25J 11/00 (2006.01) B67D 7/78 (2010.01)**  
[25] EN  
[54] **ROBOTIZED MANIFOLD SYSTEM COMPRISING A PLURALITY OF BISTABLE VALVES**  
[54] **SYSTEME DE COLLECTEUR ROBOTISE COMPRENANT UNE PLURALITE DE SOUPAPES BISTABLES**  
[72] CAILLOT, ALEXANDRE, FR  
[72] PIERCE, CHRISTOPHER, FR  
[71] ABB SCHWEIZ AG, CH  
[85] 2024-01-11  
[86] 2022-07-19 (PCT/EP2022/070148)  
[87] (WO2023/001796)  
[30] EP (21186387.3) 2021-07-19

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[21] **3,225,684**  
[13] A1

[51] **Int.Cl. B65D 47/06 (2006.01) B29C 45/00 (2006.01) B65D 25/40 (2006.01) B65D 33/38 (2006.01)**  
[25] EN  
[54] **MULTI-APERTURE SPILL-RESISTANT SPOUT**  
[54] **BEC VERSEUR ANTI-DEVERSEMENT A OUVERTURES MULTIPLES**  
[72] MORENO BROCIER, MANUEL JOSE, CA  
[72] BILGEN, MUSTAFA, US  
[72] MUGGLI, OLIVIER YVES, CA  
[72] ANDREWS, ASHLEY ROBERT, CA  
[71] WINPAK LTD., CA  
[85] 2024-01-11  
[86] 2022-07-11 (PCT/IB2022/056400)  
[87] (WO2023/017331)  
[30] US (63/260,092) 2021-08-09

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[21] **3,225,685**  
[13] A1

[51] **Int.Cl. F17C 13/08 (2006.01)**  
[25] EN  
[54] **RECEIVING DEVICE FOR RECEIVING A GAS CARTRIDGE FOR A CARBONATION MACHINE; CARBONATION MACHINE; METHOD FOR USING A CARBONATION MACHINE**  
[54] **DISPOSITIF DE RECEPTION POUR RECEVOIR UNE CARTOUCHE DE GAZ POUR UNE MACHINE DE CARBONATATION; MACHINE DE CARBONATATION; PROCEDE D'UTILISATION D'UNE MACHINE DE CARBONATATION**  
[72] STALDER, STEFAN, CH  
[72] EMPL, GUNTER, DE  
[71] SODAPOP GMBH, DE  
[85] 2024-01-11  
[86] 2022-07-14 (PCT/EP2022/069785)  
[87] (WO2023/285614)  
[30] DE (10 2021 207 554.1) 2021-07-15

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[21] **3,225,686**  
[13] A1

[51] **Int.Cl. G06Q 10/10 (2023.01) G06Q 10/08 (2023.01)**  
[25] EN  
[54] **SYSTEM FOR PROVIDING TAILOR-MADE AND CUSTOMIZABLE JOBS AND SERVICES PLATFORM**  
[54]  
[72] TALEB, REZA, US  
[71] TALEB, REZA, US  
[85] 2024-01-11  
[86] 2022-07-14 (PCT/US2022/037134)  
[87] (WO2023/287983)  
[30] US (63/221,493) 2021-07-14

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[21] **3,225,687**  
[13] A1

[51] **Int.Cl. H04W 88/08 (2009.01) H04W 24/02 (2009.01) H04W 84/04 (2009.01)**  
[25] EN  
[54] **A METHOD OF COMMUNICATING BETWEEN A FIRST RADIO UNIT AND A FIRST DISTRIBUTED UNIT**  
[54] **PROCEDE DE COMMUNICATION ENTRE UNE PREMIERE UNITE RADIO ET UNE PREMIERE UNITE DISTRIBUEE**  
[72] FIORENTINO, VINCENZO, DE  
[72] ROTMENSEN, SANDER, DE  
[71] SIEMENS AKTIENGESELLSCHAFT, DE  
[85] 2024-01-11  
[86] 2022-06-03 (PCT/EP2022/065146)  
[87] (WO2023/001441)  
[30] EP (21187484.7) 2021-07-23

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[21] **3,225,688**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01)**  
[25] EN  
[54] **DEVICE FOR ASSAY SYSTEM, SYSTEM AND METHOD**  
[54] **DISPOSITIF POUR SYSTEME DE DOSAGE, SYSTEME ET PROCEDE**  
[72] PIVIDORI GURGO, MARIA ISABEL, ES  
[71] BIOECLOSION, S.L., ES  
[71] UNIVERSITAT AUTONOMA DE BARCELONA, ES  
[85] 2024-01-11  
[86] 2022-07-27 (PCT/EP2022/071078)  
[87] (WO2023/006817)  
[30] EP (21382709.0) 2021-07-28



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[21] **3,225,689**  
[13] A1

[51] **Int.Cl. B22F 7/08 (2006.01) B23K 26/342 (2014.01) B22F 10/25 (2021.01) B22F 10/80 (2021.01) B22F 12/90 (2021.01) B02C 7/12 (2006.01) D21D 1/30 (2006.01)**

[25] EN

[54] **3D METAL PARTIAL PRINTING OF REFINER SEGMENTS**

[54] **IMPRESSION PARTIELLE DE METAL EN 3D DE SEGMENTS DE RAFFINEUR**

[72] GINGRAS, LUC, US  
[72] RAYMOND, YVES, US  
[71] ANDRITZ INC., US  
[85] 2024-01-11  
[86] 2022-08-31 (PCT/US2022/042222)  
[87] (WO2023/034427)  
[30] US (63/239,167) 2021-08-31

[21] **3,225,690**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61P 37/02 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **ANTIBODY AND USE THEREOF**

[54] **ANTICORPS ET SON UTILISATION**

[72] TIAN, ZHIGANG, CN  
[72] CAO, GUOSHUAI, CN  
[72] XIAO, WEIHUA, CN  
[72] SUN, RUI, CN  
[72] SUN, HAOYU, CN  
[71] HEFEI TG IMMUNOPHARMA CO., LTD., CN  
[85] 2024-01-11  
[86] 2022-12-07 (PCT/CN2022/137233)  
[87] (WO2023/124857)  
[30] CN (202111629693.7) 2021-12-28

[21] **3,225,691**  
[13] A1

[51] **Int.Cl. A61M 39/28 (2006.01)**

[25] EN

[54] **INFUSION SET HAVING A ROLLER CLAMP**

[54] **ENSEMBLE DE PERFUSION AYANT UNE PINCE A ROULEAUX**

[72] BOLZ, JOHANNES, DE  
[72] KRAMER, MATTHIAS, DE  
[72] FREITAG, CLAUDIA, DE  
[72] GUHL, TORBEN, DE  
[71] B. BRAUN MELSUNGEN AG, DE  
[85] 2024-01-11  
[86] 2022-07-13 (PCT/EP2022/069646)  
[87] (WO2023/285556)  
[30] DE (10 2021 118 331.6) 2021-07-15

[21] **3,225,692**  
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A61K 33/24 (2019.01) A61P 31/20 (2006.01)**

[25] EN

[54] **METAL PROTOPORPHYRIN FOR TREATMENT OF BK VIRUS**

[54] **PROTOPORPHYRINE METALLIQUE POUR LE TRAITEMENT DU VIRUS BK**

[72] KEYSER, DONALD JEFFREY, US  
[72] GUILLEM, ALVARO F., US  
[72] SINGH, BHUPINDER, US  
[72] RUIZ, STACEY, US  
[71] RENIBUS THERAPEUTICS, INC., US  
[85] 2024-01-11  
[86] 2022-07-08 (PCT/US2022/036566)  
[87] (WO2023/287665)  
[30] US (63/220,625) 2021-07-12

[21] **3,225,693**  
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/84 (2006.01) A61B 17/88 (2006.01)**

[25] EN

[54] **ROTATOR CUFF CABLE RECONSTRUCTIONS**

[54] **RECONSTRUCTIONS DE CABLE DE MANCHON DE ROTATEUR**

[72] ADAMS, CHRISTOPHER R., US  
[72] HERRINGTON, MATTHEW R., US  
[72] HEIDENTHAL, JUSTINA M., US  
[71] ARTHREX, INC., US  
[85] 2024-01-11  
[86] 2022-05-11 (PCT/US2022/028772)  
[87] (WO2023/009197)  
[30] US (17/390,106) 2021-07-30

[21] **3,225,694**  
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 47/69 (2017.01) A61K 31/7088 (2006.01) A61K 47/14 (2017.01) A61K 48/00 (2006.01)**

[25] EN

[54] **SINGLE CHAIN VARIABLE FRAGMENT (SCFV) MODIFIED LIPID NANOPARTICLE COMPOSITIONS AND USES THEREOF**

[54] **COMPOSITIONS DE NANOPARTICULES LIPIDIQUES MODIFIEES PAR UN FRAGMENT VARIABLE A CHAINE UNIQUE (SCFV) ET LEURS UTILISATIONS**

[72] SAMAYOA, PHILLIP, US  
[72] SILVER, NATHANIEL, US  
[72] LI, PRUDENCE YUI TUNG, US  
[72] TOY, RANDALL NEWTON, US  
[72] NOLTING, BIRTE, US  
[72] OONTHONPAN, LALITA, US  
[71] GENERATION BIO CO., US  
[85] 2024-01-12  
[86] 2022-07-13 (PCT/US2022/036930)  
[87] (WO2023/287861)

[21] **3,225,695**  
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MONITORING SPRAY QUALITY**

[54] **SYSTEMES ET PROCEDES POUR SURVEILLER UNE QUALITE DE PULVERISATION**

[72] MAURER, GARRETT, US  
[72] HEILMAN, JOSEPH A., US  
[71] INTELLIGENT AGRICULTURAL SOLUTIONS LLC, US  
[85] 2023-12-28  
[86] 2022-06-24 (PCT/IB2022/055863)  
[87] (WO2023/002272)  
[30] US (63/224,129) 2021-07-21

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[21] **3,225,696**  
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01) A61P 1/04 (2006.01) A61P 17/06 (2006.01) A61P 17/14 (2006.01) A61P 37/02 (2006.01) A61P 37/08 (2006.01)**

[25] EN

[54] **ADMINISTRATION OF A COMPOUND TO INDIVIDUALS WITH HEPATIC IMPAIRMENT**

[54] **ADMINISTRATION D'UN COMPOSE A DES INDIVIDUS PRESENTANT UNE DEFICIENCE HEPATIQUE**

[72] LEE, CAROLINE A., US

[71] ARENA PHARMACEUTICALS, INC., US

[85] 2023-12-28

[86] 2022-06-14 (PCT/US2022/033471)

[87] (WO2023/278141)

[30] US (63/218,032) 2021-07-02

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[21] **3,225,698**  
[13] A1

[51] **Int.Cl. G06Q 40/02 (2023.01) G06Q 10/06 (2023.01)**

[25] EN

[54] **AUTOMATIC ADJUSTMENT OF LIMITS BASED ON MACHINE LEARNING FORECASTING**

[54] **AJUSTEMENT AUTOMATIQUE DE LIMITES SUR LA BASE D'UNE PREVISION D'APPRENTISSAGE AUTOMATIQUE**

[72] CHEN, BRYANT, US

[72] XU, LILLIAN, US

[72] JIN, JEANETTE, US

[71] BREX INC., US

[85] 2023-12-28

[86] 2022-06-15 (PCT/US2022/033679)

[87] (WO2023/278160)

[30] US (63/217,182) 2021-06-30

[30] US (17/560,114) 2021-12-22

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[21] **3,225,702**  
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01) G06T 13/40 (2011.01) G06T 19/00 (2011.01) G16H 30/40 (2018.01) G16H 50/20 (2018.01) A61B 5/00 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **ASSESSING DISEASE RISKS FROM USER CAPTURED DATA**

[54] **EVALUATION DE RISQUES DE MALADIE A PARTIR DE DONNEES RECUEILLIES PAR UN UTILISATEUR**

[72] BOSANAC, VLADO, AU

[72] EL-SALLAM, AMAR, AU

[71] ADVANCED HEALTH INTELLIGENCE LTD., AU

[85] 2023-09-13

[86] 2022-03-16 (PCT/AU2022/050226)

[87] (WO2022/192948)

[30] US (63/161,881) 2021-03-16

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[21] **3,225,697**  
[13] A1

[51] **Int.Cl. B64C 39/02 (2023.01) H01Q 19/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR RADIO FREQUENCY POWER SYSTEMS**

[54] **SYSTEMES ET PROCEDES POUR DES SYSTEMES DE PUISSANCE RADIOFREQUENCE**

[72] SCOTT, ALEXANDER PAUL, US

[72] BORISOV, MICHAEL ALEX, US

[72] BILODEAU, MAXWELL ANTHONY, US

[72] SHIN, JOSEPH, US

[72] MONTEMURO III, ALBERT THOMAS, US

[72] KULTRAN, DENPOL, US

[72] MARR, JR., HARRY BOURNE, US

[72] BASSANO, BRADLEY TRAVIS, US

[71] EPIRUS, INC., US

[85] 2023-12-28

[86] 2022-06-30 (PCT/IB2022/056085)

[87] (WO2023/275808)

[30] US (17/365,915) 2021-07-01

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[21] **3,225,701**  
[13] A1

[51] **Int.Cl. G06F 16/955 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS OF ORGANIZING AND PROVIDING BOOKMARKED CONTENT**

[54] **SYSTEMES ET PROCEDES D'ORGANISATION ET DE FOURNITURE DE CONTENU MIS EN FAVORIS**

[72] CHANDRASHEKAR, PADMASSRI, IN

[72] EMMANUEL, DAINA, IN

[72] HARB, REDA, US

[71] ROVI GUIDES, INC., US

[85] 2023-12-28

[86] 2021-12-21 (PCT/US2021/064635)

[87] (WO2023/277949)

[30] US (17/363,331) 2021-06-30

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[21] **3,225,703**  
[13] A1

[51] **Int.Cl. B02C 23/36 (2006.01) B02C 18/16 (2006.01) C22B 1/00 (2006.01) C22B 7/00 (2006.01) C22B 26/12 (2006.01) H01M 10/54 (2006.01)**

[25] EN

[54] **SHREDDER WITH FLUID-IMMERSION SHREDDING CHAMBER**

[54] **DECHIQUETEUSE A CHAMBRE DE DECHIQUETAGE A IMMERSION DANS UN FLUIDE**

[72] YULE, ROB, CA

[72] VASILESCU, CONSTANTIN, CA

[72] VAN DEKERKHOVE, KEVIN, CA

[72] BELLAMY, JERRETT TIMOTHY, CA

[71] SHRED-TECH CORPORATION, CA

[85] 2023-12-28

[86] 2023-01-21 (PCT/IB2023/050520)

[87] (WO2023/139543)

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[21] **3,225,704**  
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/015 (2006.01) A61K 31/12 (2006.01) A61K 31/66 (2006.01)**

[25] EN

[54] **PHARMACOLOGICAL AGENTS FOR PREVENTING AND TREATING CATARACTS AND PRESBYOPIA EYE DISEASES**

[54] **AGENTS PHARMACOLOGIQUES POUR LA PREVENTION ET LE TRAITEMENT DE CATARACTES ET DE MALADIES OCULAIRES DE TYPE PRESBYTIE**

[72] SINHA, SANTOSH C., US

[72] PRASAD, SRIDHAR GOVINDA, US

[71] PLEX PHARMACEUTICALS, INC., US

[85] 2023-12-28

[86] 2022-06-28 (PCT/US2022/035336)

[87] (WO2023/278464)

[30] US (63/215,818) 2021-06-28

[21] **3,225,708**  
[13] A1

[51] **Int.Cl. F17C 13/00 (2006.01) F04D 13/08 (2006.01)**

[25] EN

[54] **INTEGRALLY-TRANSPORTABLE PURGE CONTAINER AND METHOD OF USING THE INTEGRALLY-TRANSPORTABLE PURGE CONTAINER**

[54] **RECIPIENT DE PURGE PORTATIF FORME EN UNE SEULE PIECE ET SON PROCEDE D'UTILISATION**

[72] HONDA, SHUICHIRO, JP

[72] KASATANI, TETSUJI, JP

[72] IKEDA, HAYATO, JP

[72] IWAMI, MITSUTAKA, JP

[71] EBARA CORPORATION, JP

[85] 2023-12-28

[86] 2022-08-09 (PCT/JP2022/030377)

[87] (WO2023/022058)

[30] JP (2021-132899) 2021-08-17

[21] **3,225,709**  
[13] A1

[51] **Int.Cl. A01K 1/015 (2006.01) A01K 1/035 (2006.01) A01K 29/00 (2006.01)**

[25] EN

[54] **ANIMAL TRACTION MAT**

[54] **TAPIS DE TRACTION POUR ANIMAUX**

[72] BEUCHAT, CAROL, US

[71] BEUCHAT, CAROL, US

[85] 2023-12-28

[86] 2022-06-29 (PCT/US2022/035517)

[87] (WO2023/278571)

[30] US (63/216,669) 2021-06-30

[21] **3,225,710**  
[13] A1

[51] **Int.Cl. A61B 5/285 (2021.01) A61N 1/38 (2006.01) A61B 5/392 (2021.01)**

[25] EN

[54] **DIGESTIVE SYSTEM SIMULATION AND PACING**

[54] **SIMULATION ET STIMULATION DU SYSTEME DIGESTIF**

[72] KRUMMEN, ROBERT JOSEPH, US

[72] KRUMMEN, PAUL JEROME, US

[72] KAMRAVA, ALLEN, US

[71] VEKTOR MEDICAL, INC., US

[85] 2023-12-28

[86] 2022-06-29 (PCT/US2022/035531)

[87] (WO2023/278583)

[30] US (63/216,333) 2021-06-29

[21] **3,225,712**  
[13] A1

[51] **Int.Cl. D21H 11/18 (2006.01) D06N 3/02 (2006.01) D21H 13/24 (2006.01) D21H 17/02 (2006.01) D21H 17/22 (2006.01) D21H 17/24 (2006.01) D21H 17/26 (2006.01) D21H 17/28 (2006.01) D21H 17/29 (2006.01) D21H 17/66 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A VEGETABLE PLANAR TEXTILE STRUCTURE**

[54] **PROCEDE DE FABRICATION D'UNE STRUCTURE TEXTILE PLANE VEGETALE**

[72] FUHRMANN, LUCAS, DE

[71] REVOLTECH GMBH, DE

[85] 2024-01-12

[86] 2022-07-28 (PCT/EP2022/071283)

[87] (WO2023/006924)

[30] DE (10 2021 119 667.1) 2021-07-28

[21] **3,225,714**  
[13] A1

[51] **Int.Cl. B65D 5/18 (2006.01)**

[25] EN

[54] **CARTON FOR FOOD PRODUCTS**

[54] **CARTON POUR PRODUITS ALIMENTAIRES**

[72] GUNGNER, GREG, CA

[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US

[85] 2024-01-12

[86] 2022-08-10 (PCT/US2022/039916)

[87] (WO2023/018770)

[30] US (63/260,158) 2021-08-11

[21] **3,225,715**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **ANTIGEN-BINDING MOLECULE SPECIFICALLY BINDING TO HGFR AND EGFR, AND PHARMACEUTICAL USE THEREOF**

[54] **MOLECULE DE LIAISON A L'ANTIGENE SE LIANT SPECIFIQUEMENT A HGFR ET EGFR, ET UTILISATION PHARMACEUTIQUE DE CELLE-CI**

[72] YE, XIN, CN

[72] SUN, LE, CN

[72] ZHANG, WEIWEI, CN

[72] TAO, WEIKANG, CN

[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN

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

[85] 2024-01-12

[86] 2022-07-14 (PCT/CN2022/105714)

[87] (WO2023/284829)

[30] CN (202110794137.9) 2021-07-14

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[21] **3,225,717**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 47/58 (2017.01) A61K 9/70 (2006.01) A61K 47/10 (2017.01) A61M 37/00 (2006.01)**

[25] EN

[54] **MICRONEEDLE PATCH**

[54] **TIMBRE A MICRO-AIGUILLES**

[72] KUWAHARA, TETSUJI, JP

[72] TSURUSHIMA, KEIICHIRO, JP

[72] ONO, MASAFUMI, JP

[72] WAKAMATSU, MASATO, JP

[72] TATEISHI, TETSURO, JP

[71] HISAMITSU PHARMACEUTICAL CO., INC., JP

[85] 2023-12-28

[86] 2022-08-19 (PCT/JP2022/031373)

[87] (WO2023/022228)

[30] JP (2021-133878) 2021-08-19

[21] **3,225,719**  
[13] A1

[51] **Int.Cl. G01B 11/16 (2006.01) G01B 11/24 (2006.01)**

[25] EN

[54] **DEVICE FOR MEASURING BENDING OF AN ELONGATE VERTICALLY ORIENTED CHANNEL**

[54] **DISPOSITIF DE MESURE DE FLECHISSEMENT D'UN CANAL ALLONGE ORIENTE VERTICALEMENT**

[72] FEDOROV, ARTYOM NIKOLAEVICH, RU

[72] PODOSINNIKOV, ALEXANDR ALEXANDROVICH, RU

[72] STEPANOV, MAKSIM ALEKSEEVICH, RU

[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU

[71] JOINT STOCK COMPANY "N.A. DOLLEZHAL RESEARCH AND DEVELOPMENT INSTITUT...", RU

[71] SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, RU

[71] OBSHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "PROLOG", RU

[85] 2024-01-12

[86] 2021-12-08 (PCT/RU2021/000551)

[87] (WO2023/055252)

[30] RU (2021128441) 2021-09-29

[21] **3,225,720**  
[13] A1

[51] **Int.Cl. G01B 11/16 (2006.01) G01B 11/245 (2006.01) G21C 17/017 (2006.01)**

[25] EN

[54] **METHOD OF MEASURING BENDING OF A NUCLEAR REACTOR FUEL CHANNEL**

[54] **PROCEDE DE MESURE DU FLECHISSEMENT D'UN CANAL TECHNIQUE DE REACTEUR NUCLEAIRE**

[72] FEDOROV, ARTYOM NIKOLAEVICH, RU

[72] PODOSINNIKOV, ALEXANDR ALEXANDROVICH, RU

[72] STEPANOV, MAKSIM ALEKSEEVICH, RU

[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU

[71] JOINT STOCK COMPANY "N.A. DOLLEZHAL RESEARCH AND DEVELOPMENT INSTITUT...", RU

[71] SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, RU

[71] OBSHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "PROLOG", RU

[85] 2024-01-12

[86] 2021-12-08 (PCT/RU2021/000549)

[87] (WO2023/055251)

[30] RU (2021128446) 2021-09-29

[21] **3,225,722**  
[13] A1

[51] **Int.Cl. G01B 11/16 (2006.01) G01B 11/245 (2006.01) G21C 17/017 (2006.01)**

[25] EN

[54] **METHOD OF MEASURING BENDING OF AN EXTENDED VERTICALLY DIRECTED CHANNEL**

[54] **PROCEDE DE MESURE DU FLECHISSEMENT D'UN CANAL ALLONGE ORIENTE VERTICALEMENT**

[72] FEDOROV, ARTYOM NIKOLAEVICH, RU

[72] PODOSINNIKOV, ALEXANDR ALEXANDROVICH, RU

[72] STEPANOV, MAKSIM ALEKSEEVICH, RU

[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU

[71] JOINT STOCK COMPANY "N.A. DOLLEZHAL RESEARCH AND DEVELOPMENT INSTITUT...", RU

[71] SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, RU

[71] OBSHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "PROLOG", RU

[85] 2024-01-12

[86] 2021-12-08 (PCT/RU2021/000552)

[87] (WO2023/055253)

[30] RU (2021128445) 2021-09-29

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[21] **3,225,723**  
[13] A1

[51] **Int.Cl. C10B 49/00 (2006.01) C10B 49/04 (2006.01) C10B 53/02 (2006.01)**

[25] EN

[54] **PROCESSES FOR PRODUCING BIOCARBON PELLETS WITH HIGH FIXED-CARBON CONTENT AND OPTIMIZED REACTIVITY, AND BIOCARBON PELLETS OBTAINED THEREFROM**

[54] **PROCEDES DE PRODUCTION DE GRANULES DE BIOCARBONE AYANT UNE TENEUR ELEVEE EN CARBONE FIXE ET UNE REACTIVITE OPTIMISEE, ET PASTILLES DE BIOCARBONE AINSI OBTENUES**

[72] SLACK, DUSTIN, US

[72] MENNELL, JAMES A., US

[72] DAUGAARD, DAREN, US

[71] CARBON TECHNOLOGY HOLDINGS, LLC, US

[85] 2023-12-28

[86] 2022-07-07 (PCT/US2022/036294)

[87] (WO2023/283290)

[30] US (63/220,073) 2021-07-09

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[21] **3,225,724**  
[13] A1

[51] **Int.Cl. E21B 17/10 (2006.01) E21B 43/116 (2006.01)**

[25] EN

[54] **PERFORATING GUN**

[54] **CANON DE PERFORATION**

[72] GARG, VARUN, US

[72] URSI, JEREMY, US

[72] INNES III, GEORGE, US

[71] OSO PERFORATING, LLC, US

[85] 2024-01-12

[86] 2022-07-20 (PCT/US2022/073947)

[87] (WO2023/004353)

[30] US (63/224,338) 2021-07-21

[30] US (63/355,440) 2022-06-24

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[21] **3,225,725**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G02C 7/04 (2006.01) G02C 11/00 (2006.01)**

[25] EN

[54] **CONTACT LENS**

[54] **LENTILLE DE CONTACT**

[72] PESI, LEONARDO, IT

[71] LEONARDO VISION S.R.L., IT

[85] 2024-01-12

[86] 2022-07-13 (PCT/IT2022/050203)

[87] (WO2023/286098)

[30] IT (102021000018353) 2021-07-13

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[21] **3,225,727**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) C07K 1/22 (2006.01) C07K 1/36 (2006.01) G01N 30/88 (2006.01)**

[25] EN

[54] **BIOANALYSIS OF THERAPEUTIC ANTIBODIES AND RELATED PRODUCTS USING IMMUNOPRECIPITATION AND NATIVE SCX-MS DETECTION**

[54] **BIOANALYSE D'ANTICORPS THERAPEUTIQUES ET DE PRODUITS APPARENTES PAR IMMUNOPRECIPITATION ET DETECTION SCX-MS NATIVE**

[72] YAN, YUETIAN, US

[72] WANG, SHUNHAI, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2023-12-28

[86] 2022-07-12 (PCT/US2022/036873)

[87] (WO2023/287826)

[30] US (63/221,439) 2021-07-13

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[21] **3,225,728**  
[13] A1

[51] **Int.Cl. G21C 3/64 (2006.01)**

[25] EN

[54] **HIGH-TEMPERATURE DENSE COMPOSITE NUCLEAR FUEL MATERIAL AND METHOD OF ITS PRODUCTION**

[54] **MATERIAU COMPOSITE DENSE HAUTE-TEMPERATURE DE COMBUSTIBLE NUCLEAIRE ET PROCEDE DE PRODUCTION**

[72] BAKHIN, ANDREY NIKOLAEVICH, RU

[72] REPNIKOV, VLADIMIR MIKHAYLOVICH, RU

[72] VISHNEVSKIY, VJACHESLAV YUR'EVICH, RU

[72] KOTOV, ALEXANDER YUR'EVICH, RU

[72] KISELEV, DMITRY SERGEEVICH, RU

[72] BESPECHALOV, BORIS NIKOLAEVICH, RU

[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU

[71] "LUCH RESEARCH AND PRODUCTION ASSOCIATION, RESEARCH AND DEVELOPMENT L...", RU

[71] SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, RU

[85] 2024-01-12

[86] 2021-12-15 (PCT/RU2021/000579)

[87] (WO2023/113638)

[30] RU (2021136719) 2021-12-13

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[21] **3,225,729**  
[13] A1

[51] **Int.Cl. C01B 32/21 (2017.01) C04B 35/532 (2006.01)**  
[25] EN  
[54] **METHOD OF PRODUCING CARBON-GRAPHITE ITEMS**  
[54] **PROCEDE DE PRODUCTION D'ARTICLES EN CARBONE-GRAPHITE**  
[72] LYSENKO, EVGENIY KONSTANTINOVICH, RU  
[72] FEDIN, OLEG IGOREVICH, RU  
[72] MARUSHKIN, DMITRIY VALERYEVICH, RU  
[72] CHERKASOV, ALEXANDR SERGEEVICH, RU  
[72] CHUMAK, LESYA GRIGORYEVNA, RU  
[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU  
[71] "LUCH RESEARCH AND PRODUCTION ASSOCIATION, RESEARCH AND DEVELOPMENT I...", RU  
[71] SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, RU  
[85] 2024-01-12  
[86] 2021-12-08 (PCT/RU2021/000550)  
[87] (WO2023/068964)  
[30] RU (2021130743) 2021-10-21

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[21] **3,225,730**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **PROTEIN N-TERMINAL DE NOVO SEQUENCING BY POSITION-SELECTIVE DIMETHYLATION**  
[54] **SEQUENCAGE DE NOVO DE LA PROTEINE N-TERMINALE PAR DIMETHYLATION SELECTIVE PAR POSITIONNEMENT**  
[72] FENG, YU, US  
[72] WANG, SHUNHAI, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2023-12-28  
[86] 2022-07-12 (PCT/US2022/036876)  
[87] (WO2023/287828)  
[30] US (63/221,454) 2021-07-13

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[21] **3,225,731**  
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/958 (2013.01) A61M 25/00 (2006.01) A61M 25/10 (2013.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PREDICTABLE COMMISSURAL ALIGNMENT OF A REPLACEMENT HEART VALVE**  
[54] **SYSTEMES ET PROCEDES D'ALIGNEMENT COMMISSURAL PREVISIBLE D'UNE VALVULE CARDIAQUE DE REMPLACEMENT**  
[72] QUILL, JASON L., US  
[72] DEAN, DANNAH, US  
[72] MURTO, CAMERON JAMES ALBIN, US  
[72] ANDERSON, EDWARD JAMES, US  
[72] TRAEGER, BRAD JAMES, US  
[72] PARMET, PAYTON KRISTINE, US  
[72] PENZA, NICHOLAS WELDON, US  
[72] DUERR, JOSEPH ALLEN, US  
[71] ANTERIS TECHNOLOGIES CORPORATION, US  
[85] 2024-01-12  
[86] 2022-07-12 (PCT/US2022/036781)  
[87] (WO2023/287759)  
[30] US (63/220,989) 2021-07-12

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[21] **3,225,732**  
[13] A1

[51] **Int.Cl. G01N 27/04 (2006.01)**  
[25] EN  
[54] **SENSOR HAVING CONTOURED MEMBRANE**  
[54] **CAPTEUR AYANT UNE MEMBRANE PROFILEE**  
[72] RANAMUKHAARACHCHI, SAHAN, CA  
[72] CADARSO BUSTO, VICTOR JAVIER, AU  
[72] DERVISEVIC, ESMA, AU  
[72] OLENGINSKI, ALLISON, US  
[71] PRONON INTELLIGENCE INC., CA  
[71] RANAMUKHAARACHCHI, SAHAN, CA  
[71] CADARSO BUSTO, VICTOR JAVIER, AU  
[71] DERVISEVIC, ESMA, AU  
[71] OLENGINSKI, ALLISON, US  
[85] 2023-12-28  
[86] 2022-07-14 (PCT/US2022/037198)  
[87] (WO2023/288016)  
[30] US (63/222,936) 2021-07-16

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[21] **3,225,733**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0205 (2006.01)**  
[25] EN  
[54] **APPARATUSES, SYSTEMS, AND METHODS FOR CAPTURING A VIDEO OF A HUMAN PATIENT SUITABLE FOR MONITORING A CARDIAC, RESPIRATORY OR CARDIORESPIRATORY CONDITION**  
[54] **APPAREILS, SYSTEMES ET PROCEDES DE CAPTURE D'UNE VIDEO D'UN PATIENT HUMAIN PERMETTANT DE SURVEILLER UN ETAT CARDIAQUE, RESPIRATOIRE OU CARDIORESPIRATOIRE**  
[72] SMITH, ANDREW M. L., CA  
[72] SMITH, ANDREW J., CA  
[71] JRAS MEDICAL INC. D/B/A JVPLABS, CA  
[85] 2024-01-12  
[86] 2022-08-02 (PCT/CA2022/051177)  
[87] (WO2023/010208)  
[30] US (63/228,071) 2021-07-31

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[21] **3,225,734**  
[13] A1

[51] **Int.Cl. C07K 14/26 (2006.01) A01N 63/50 (2020.01) A01N 37/46 (2006.01) A01N 63/20 (2020.01) A61K 38/47 (2006.01)**  
[25] EN  
[54] **CHIMERIC KLEBICINS**  
[54] **KLEBICINES CHIMERIQUES**  
[72] AMBADY, ANISHA, IN  
[72] APPAIAH, CHEMIRA BIDDAPPA, IN  
[72] PAUL, VIVEK DANIEL, IN  
[72] SARAVANAN, R SANJEEV, IN  
[72] ANBALAGAN, KEERTHANA, IN  
[71] BACTOCLEAR HOLDINGS PTE. LTD, SG  
[85] 2024-01-12  
[86] 2022-07-12 (PCT/IN2022/050631)  
[87] (WO2023/286080)  
[30] IN (202141031183) 2021-07-12

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[21] **3,225,735**  
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01) G06F 21/52 (2013.01)**  
[25] EN  
[54] **BLOCKCHAIN-BASED PLATFORM FOR HEALTH RECORD EXCHANGE**  
[54] **PLATE-FORME BASEE SUR UNE CHAINE DE BLOCS POUR ECHANGE D'ENREGISTREMENTS DE SANTE**  
[72] KUKREJA, VIJAY, US  
[71] BLUE CROSS AND BLUE SHIELD OF MASSACHUSETTS, INC., US  
[85] 2024-01-12  
[86] 2022-07-14 (PCT/US2022/037127)  
[87] (WO2023/287979)  
[30] US (63/221,814) 2021-07-14

[21] **3,225,736**  
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**  
[25] EN  
[54] **HEART VALVE REPAIR DEVICES**  
[54] **DISPOSITIFS DE REPARATION DE VALVULE CARDIAQUE**  
[72] HERMAN, YARON, IL  
[72] TENNENBAUM, GAD, IL  
[72] PELEG, CARMEL, IL  
[72] AVIVI, SARIT, IL  
[72] HABERMAN BROWNS, BEZALEL, IL  
[72] STEARNS, GRANT MATTHEW, US  
[72] FRESCHAUF, LAUREN R., US  
[72] DELGADO, SERGIO, US  
[72] DIXON, ERIC ROBERT, US  
[72] HARUSH, LIOR, IL  
[71] EDWARDS LIFESCIENCES CORPORATION, US  
[85] 2023-12-28  
[86] 2022-07-22 (PCT/US2022/037983)  
[87] (WO2023/004098)  
[30] US (63/225,387) 2021-07-23  
[30] US (63/307,589) 2022-02-07

[21] **3,225,737**  
[13] A1

[51] **Int.Cl. B04B 1/04 (2006.01) B04B 7/12 (2006.01)**  
[25] EN  
[54] **PLATE TYPE ROTATIONAL SEPARATOR**  
[54] **SEPARATEUR ROTATIF DE TYPE A PLAQUES**  
[72] TIEMANN, ANDREAS, NL  
[72] BOELE, HENDRIK ARIE, BE  
[71] BIORGANICS UFT B.V., NL  
[85] 2024-01-12  
[86] 2022-07-13 (PCT/NL2022/050409)  
[87] (WO2023/287285)  
[30] NL (2028726) 2021-07-14

[21] **3,225,738**  
[13] A1

[51] **Int.Cl. A61M 5/178 (2006.01) A61M 5/28 (2006.01) A61M 5/31 (2006.01) A61M 5/315 (2006.01)**  
[25] EN  
[54] **MEDICAL DELIVERY DEVICE**  
[54] **DISPOSITIF MEDICAL D'ADMINISTRATION**  
[72] HAYTON, PAUL GRAHAM, GB  
[72] RIDLEY, JONATHAN PAUL, GB  
[72] TEUCHER, MARK DIGBY, GB  
[72] FISCHLEIN, CHRISTIAN, DK  
[71] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2024-01-12  
[86] 2022-09-29 (PCT/EP2022/077139)  
[87] (WO2023/052519)  
[30] EP (21199690.5) 2021-09-29

[21] **3,225,739**  
[13] A1

[51] **Int.Cl. A61N 5/10 (2006.01) A61N 5/00 (2006.01)**  
[25] EN  
[54] **INTENSITY MODULATED PIXELATED SUPERFICIAL RADIATION THERAPY SYSTEM AND METHOD**  
[54] **SYSTEME ET METHODE DE RADIOTHERAPIE SUPERFICIELLE PIXELISEE MODULEE EN INTENSITE**  
[72] FISHMAN, KALMAN, US  
[71] SKINCURE ONCOLOGY LLC, US  
[85] 2024-01-12  
[86] 2022-07-06 (PCT/US2022/036229)  
[87] (WO2023/287621)  
[30] US (63/222,309) 2021-07-15

[21] **3,225,740**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61P 25/16 (2006.01) A61K 31/7125 (2006.01)**  
[25] EN  
[54] **LEUCINE-RICH REPEAT KINASE 2 (LRRK2) IRNA AGENT COMPOSITIONS AND METHODS OF USE THEREOF**  
[54] **COMPOSITIONS D'AGENTS ARNI DE KINASE 2 A REPETITION RICHE EN LEUCINE (LRRK2) ET LEURS PROCEDES D'UTILISATION**  
[72] DANG, LAN THI HOANG, US  
[72] MCININCH, JAMES D., US  
[72] SCHLEGEL, MARK K., US  
[72] CASTORENO, ADAM, US  
[72] NGUYEN, TUYEN M., US  
[72] BARRY, JOSEPH, US  
[72] STRICOS, MATTHEW, US  
[72] LEBLANC, SARAH, US  
[71] ALNYLAM PHARMACEUTICALS, INC., US  
[85] 2023-12-28  
[86] 2022-06-29 (PCT/US2022/035561)  
[87] (WO2023/278607)  
[30] US (63/216,119) 2021-06-29  
[30] US (63/353,953) 2022-06-21

[21] **3,225,742**  
[13] A1

[51] **Int.Cl. G06K 7/10 (2006.01) G06K 17/00 (2006.01) H04B 1/10 (2006.01) H04B 1/525 (2015.01)**  
[25] EN  
[54] **SELF-INTERFERENCE CANCELLATION FOR RFID TAG READERS**  
[54] **ANNULATION D'AUTO-BROUILLAGE POUR LECTEURS D'ETIQUETTES RFID**  
[72] MUELLER, JOE, US  
[72] BLAIR, ADAM, US  
[72] GOOS, JEFF, US  
[71] AUTOMATION, INC., US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/035646)  
[87] (WO2023/278652)  
[30] US (63/217,218) 2021-06-30

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[21] **3,225,743**  
[13] A1

[51] **Int.Cl. A01K 1/01 (2006.01)**  
[25] EN  
[54] **TOILET FOR PETS**  
[54] **DISPOSITIF SANITAIRE POUR ANIMAUX DOMESTIQUES**  
[72] CARVALHO, FABIO GASPAR DE, BR  
[72] LORGA, LARA CRESTANI MENEZES, BR  
[72] CARVALHO, LEINIR DE JESUS GASPAR DE, BR  
[71] CARVALHO, FABIO GASPAR DE, BR  
[71] LORGA, LARA CRESTANI MENEZES, BR  
[71] CARVALHO, LEINIR DE JESUS GASPAR DE, BR  
[85] 2024-01-12  
[86] 2022-07-13 (PCT/BR2022/050258)  
[87] (WO2023/283713)  
[30] BR (1020210137622) 2021-07-13  
[30] BR (1020220137080) 2022-07-09

[21] **3,225,744**  
[13] A1

[51] **Int.Cl. C07D 403/14 (2006.01) A61K 31/409 (2006.01) C07D 207/38 (2006.01)**  
[25] EN  
[54] **METHOD FOR SYNTHESIZING BILIRUBIN**  
[54] **PROCEDE DE SYNTHESE DE BILIRUBINE**  
[72] KIM, MYUNG LIP, KR  
[72] MA, SANG HO, KR  
[72] PARK, KI SOO, KR  
[72] JUN, HEE GOO, KR  
[72] KIM, DA EUN, KR  
[71] BILIX CO., LTD., KR  
[85] 2023-12-28  
[86] 2022-08-10 (PCT/KR2022/011913)  
[87] (WO2023/018215)  
[30] KR (10-2021-0106106) 2021-08-11  
[30] KR (10-2022-0099674) 2022-08-10

[21] **3,225,745**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 47/69 (2017.01)**  
[25] EN  
[54] **TARGETED GLYCOSAMINOGLYCAN-PARTICLES AND METHODS OF USE**  
[54] **PARTICULES DE GLYCOSAMINOGLYCANE CIBLEES ET PROCEDES D'UTILISATION**  
[72] DEANGELIS, PAUL L., US  
[72] GREEN, DIXY E., US  
[72] WILHELM, STEFAN, US  
[72] YANG, WEN, US  
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF OKLAHOMA, US  
[85] 2024-01-12  
[86] 2022-07-13 (PCT/US2022/037007)  
[87] (WO2023/287912)  
[30] US (63/222,622) 2021-07-16

[21] **3,225,746**  
[13] A1

[51] **Int.Cl. A01N 43/80 (2006.01) A01C 1/08 (2006.01) A01N 25/00 (2006.01) A01N 25/04 (2006.01) A01P 3/00 (2006.01)**  
[25] EN  
[54] **AQUEOUS SUSPENSION AGROCHEMICAL COMPOSITION, DISEASE CONTROL METHOD, AND USEFUL PLANT SEEDS**  
[54] **COMPOSITION AGROCHIMIQUE EN SUSPENSION AQUEUSE, PROCEDE DE LUTTE CONTRE LES MALADIES, ET GRAINES DE PLANTES UTILES**  
[72] AMANO, NARUKI, JP  
[71] KUMIAI CHEMICAL INDUSTRY CO., LTD., JP  
[85] 2023-12-28  
[86] 2022-10-12 (PCT/JP2022/038055)  
[87] (WO2023/074372)  
[30] JP (2021-177425) 2021-10-29

[21] **3,225,747**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61K 31/52 (2006.01)**  
[25] EN  
[54] **SPIROCYCLIC PYRIDINE-1,5-DIONES EXHIBITING MNK INHIBITION AND THEIR METHOD OF USE**  
[54] **PYRIDINE-1,5-DIONES SPIROCYCLIQUES PRESENTANT UNE ACTIVITE D'INHIBITION DE MNK ET LEURS METHODES D'UTILISATION**  
[72] PRICE, THEODORE J., US  
[72] SAHN, JAMES, J., US  
[71] 4E THERAPEUTICS, INC., US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/035703)  
[87] (WO2023/278686)  
[30] US (63/217,264) 2021-06-30

[21] **3,225,748**  
[13] A1

[51] **Int.Cl. A47J 43/04 (2006.01) A23L 25/00 (2016.01)**  
[25] EN  
[54] **NUT BUTTER REPLICAS PRODUCED FROM INDIVIDUAL COMPONENTS**  
[54] **SUCCEDANES DE BEURRE DE NOIX PRODUITS A PARTIR DE COMPOSANTS INDIVIDUELS**  
[72] TENNEY, KELSEY, US  
[72] RYO, SAMUEL, SG  
[72] MAXWELL, ADAM, US  
[72] JASTRZEMBSKI, JILLIAN ANGELA, US  
[72] CHUA, MARDONN CARL, US  
[72] SUGRUE, MEAGHAN, US  
[71] VOYAGE FOODS, INC., US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/035803)  
[87] (WO2023/278756)  
[30] US (63/217,632) 2021-07-01



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[21] **3,225,749**  
[13] A1

[51] **Int.Cl. C07D 311/58 (2006.01) A61K 31/352 (2006.01)**  
[25] EN  
[54] **CANNABICHROMENE DERIVATIVES AND METHODS FOR MAKING AND USING THE SAME**  
[54] **DERIVES DE CANNABICHROMENE ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**  
[72] ELSOHLY, MAHMOUD A., US  
[72] GUL, WASEEM, US  
[72] ASHPOLE, NICOLE MARIE, US  
[72] HARRIS, HANNAH, US  
[71] UNIVERSITY OF MISSISSIPPI, US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/035752)  
[87] (WO2023/278719)  
[30] US (63/217,401) 2021-07-01

[21] **3,225,750**  
[13] A1

[51] **Int.Cl. B21D 15/04 (2006.01) B21D 51/10 (2006.01)**  
[25] EN  
[54] **DEVICE FOR PRODUCING OIL SUPPLY PIPE AND METHOD FOR PRODUCING OIL SUPPLY PIPE**  
[54] **DISPOSITIF DE FABRICATION DE TUYAU DE REMPLISSAGE DE CARBURANT ET PROCEDE DE FABRICATION DE TUYAU DE REMPLISSAGE DE CARBURANT**  
[72] HORINOUCI, HIROKI, JP  
[71] NIPPON STEEL STAINLESS STEEL CORPORATION, JP  
[85] 2024-01-12  
[86] 2022-06-22 (PCT/JP2022/024910)  
[87] (WO2023/007997)  
[30] JP (2021-122632) 2021-07-27

[21] **3,225,751**  
[13] A1

[51] **Int.Cl. H04H 20/67 (2009.01) H04H 20/10 (2009.01) H04H 20/18 (2009.01) H04H 20/63 (2009.01) H04H 60/02 (2009.01) H04H 20/26 (2009.01) H04H 20/28 (2009.01) H04H 20/61 (2009.01)**  
[25] EN  
[54] **MECHANISMS FOR REDUCTION OF OVERLAP DURING ZONE CASTING WITH ALTERNATIVE MAIN TRANSMITTERS AND TIME ALIGNMENT FOR OVERLAYED RADIO TRANSMISSIONS**  
[54] **MECANISMES DE REDUCTION DE CHEVAUCHEMENT PENDANT LA DIFFUSION DE ZONES AVEC DES EMETTEURS PRINCIPAUX ALTERNATIFS ET UN ALIGNEMENT TEMPOREL POUR DES TRANSMISSIONS RADIO SUPERPOSEES**  
[72] GROSSPIETSCH, JOHN, US  
[72] DEVINE, CHRIS, US  
[71] LAZER ADDS, LLC, US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/035762)  
[87] (WO2023/278723)  
[30] US (63/217,263) 2021-06-30  
[30] US (63/217,260) 2021-06-30

[21] **3,225,752**  
[13] A1

[51] **Int.Cl. G01S 7/481 (2006.01) G01S 7/497 (2006.01)**  
[25] EN  
[54] **PHOTOELECTRIC SENSOR BORESIGHTING IMPROVEMENT**  
[54] **AMELIORATION DE POINTAGE DE CAPTEURS PHOTOELECTRIQUES**  
[72] STECKER, JOHN, US  
[72] GARDNER, TIMOTHY, US  
[72] LINDMARK, ERIC, US  
[72] ELMELLIGY, BEGAD, US  
[71] BANNER ENGINEERING CORP., US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/035810)  
[87] (WO2023/278761)  
[30] US (63/217,455) 2021-07-01

[21] **3,225,753**  
[13] A1

[51] **Int.Cl. B65D 65/46 (2006.01) B65D 85/804 (2006.01)**  
[25] EN  
[54] **CAPSULE FOR PREPARING A BEVERAGE**  
[54] **CAPSULE POUR LA PREPARATION D'UNE BOISSON**  
[72] KUHN, JORG, DE  
[72] SEGER, BERND, DE  
[72] TISCHER, THOMAS, DE  
[72] CASTILLA, EDUARDO, DE  
[72] SCHMID, NICOLE, DE  
[72] LADANJI, DIJANA, DE  
[72] BORNER, SEBASTIAN, DE  
[71] GLATFELTER GERNSBACH GMBH & CO. KG, DE  
[85] 2024-01-12  
[86] 2022-07-15 (PCT/EP2022/069862)  
[87] (WO2023/285655)  
[30] EP (21186187.7) 2021-07-16

[21] **3,225,754**  
[13] A1

[51] **Int.Cl. G06F 40/40 (2020.01) G10L 15/00 (2013.01)**  
[25] EN  
[54] **INTERACTIVE READING ASSISTANCE SYSTEM AND METHOD**  
[54] **SYSTEME D'AIDE A LA LECTURE INTERACTIF ET PROCEDE**  
[72] MALHOTRA, PRASHANT SOLANKI, US  
[72] LUCIUS, SHANA NICOLE, US  
[72] SATYAPRIYA, ANAND, US  
[72] HUEFNER, JANELLE, US  
[72] LUNA, JOHN, US  
[71] THE RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, US  
[85] 2023-12-28  
[86] 2022-07-01 (PCT/US2022/035989)  
[87] (WO2023/278857)  
[30] US (63/217,584) 2021-07-01

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[21] **3,225,755**  
[13] A1

[51] **Int.Cl. A23L 27/30 (2016.01) A23L 27/24 (2016.01)**  
[25] EN  
[54] **PEPTIDE COMPOUNDS FOR FLAVOR MODULATING**  
[54] **COMPOSES PEPTIDIQUES POUR LA MODULATION DE SAVEUR**  
[72] KANG, JI HYUN, KR  
[72] CHAE, MIKYOUNG, KR  
[72] LEE, EUNYONG, KR  
[72] HOFMANN, THOMAS, DE  
[72] DAWID, CORINNA, DE  
[72] MITTERMEIER KLESSINGER, VERENA KAROLIN, DE  
[72] JUENGER, MANON, DE  
[71] CJ CHEILJEDANG CORPORATION, KR  
[85] 2023-12-28  
[86] 2022-06-28 (PCT/KR2022/009262)  
[87] (WO2023/277549)  
[30] KR (10-2021-0086643) 2021-07-01

[21] **3,225,756**  
[13] A1

[51] **Int.Cl. C07H 19/056 (2006.01) A61K 31/7048 (2006.01) A61K 31/7056 (2006.01) C07H 19/01 (2006.01)**  
[25] EN  
[54] **GALACTOSIDE DERIVATIVE AS GALECTIN-3 INHIBITOR**  
[54] **DERIVE DE GALACTOSIDE EN TANT QU'INHIBITEUR DE GALECTINE-3**  
[72] LEE, MINHEE, KR  
[72] CHOI, YOUNGLOK, KR  
[72] CHUNG, YUN DONG, KR  
[72] JEONG, EUN IL, KR  
[72] KIM, DA YOUNG, KR  
[72] PARK, JEONG SU, KR  
[72] KIM, SEON MI, KR  
[72] KIM, HUN-TAEK, KR  
[71] TIUMBIO CO., LTD., KR  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/KR2022/009465)  
[87] (WO2023/277630)  
[30] KR (10-2021-0085915) 2021-06-30

[21] **3,225,758**  
[13] A1

[51] **Int.Cl. G01S 11/00 (2006.01) G01S 5/00 (2006.01)**  
[25] EN  
[54] **DETERMINING SPATIAL MAPS BASED ON USER INPUT AND MOTION-SENSING DATA DERIVED FROM WIRELESS SIGNALS**  
[54] **DETERMINATION DE CARTES SPATIALES EN FONCTION D'UNE ENTREE D'UTILISATEUR ET DE DONNEES DE DETECTION DE MOUVEMENT DERIVEES DE SIGNAUX SANS FIL**  
[72] OMER, MOHAMMAD, CA  
[71] COGNITIVE SYSTEMS CORP., CA  
[85] 2024-01-12  
[86] 2022-08-05 (PCT/CA2022/051195)  
[87] (WO2023/010220)  
[30] US (63/230,413) 2021-08-06

[21] **3,225,759**  
[13] A1

[51] **Int.Cl. G01B 11/14 (2006.01) G06Q 10/08 (2023.01) G06V 20/52 (2022.01)**  
[25] EN  
[54] **TRIANGULATION DEVICE**  
[54] **DISPOSITIF DE TRIANGULATION**  
[72] SCHLOSSER, ROBERT EARL, US  
[72] PADGET, ARTHUR GUY, US  
[71] BANNER ENGINEERING CORP., US  
[85] 2023-12-28  
[86] 2022-07-01 (PCT/US2022/035987)  
[87] (WO2023/278856)  
[30] US (63/217,845) 2021-07-02

[21] **3,225,760**  
[13] A1

[51] **Int.Cl. A61K 31/12 (2006.01) A61P 11/00 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 19/06 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01) A61P 37/06 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR PREVENTING AND/OR TREATING DISEASE ASSOCIATED WITH IL-23 EXPRESSION**  
[54] **COMPOSITIONS ET METHODES POUR LA PREVENTION ET/OU LE TRAITEMENT D'UNE MALADIE ASSOCIEE A L'EXPRESSION D'IL-23**  
[72] LU, LOUIS, FR  
[72] ANDRIEU, JEAN-MARIE (DECEASED), XX  
[71] ALLSPIM, FR  
[85] 2024-01-12  
[86] 2022-07-15 (PCT/EP2022/069944)  
[87] (WO2023/285691)  
[30] EP (21305991.8) 2021-07-15

[21] **3,225,761**  
[13] A1

[51] **Int.Cl. F16L 9/00 (2006.01) F16L 9/147 (2006.01) F16L 57/06 (2006.01) F16L 58/10 (2006.01)**  
[25] FR  
[54] **PIPE FOR TRANSPORTING FLUIDS WITH CONTROL OF THE BUCKLING OF THE INTERNAL ANTI-CORROSION LINER**  
[54] **CONDUITE POUR LE TRANSPORT DE FLUIDES AVEC CONTROLE DU FLAMBEMENT DE LA CHEMISE INTERNE ANTICORROSION**  
[72] HALLOT, RAYMOND, FR  
[72] GOURIOU, MORGAN, FR  
[72] DELAPLACE, THOMAS, FR  
[71] SAIPEM S.A., FR  
[85] 2024-01-12  
[86] 2022-06-21 (PCT/FR2022/051201)  
[87] (WO2023/002101)  
[30] FR (FR2107956) 2021-07-22

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[21] **3,225,762**  
[13] A1

[51] **Int.Cl. A61K 8/44 (2006.01) A61K 8/20 (2006.01) A61K 8/26 (2006.01) A61K 8/27 (2006.01) A61K 8/29 (2006.01) A61Q 15/00 (2006.01)**

[25] EN  
[54] **ANTIPERSPIRANT COMPOSITION**  
[54] **COMPOSITION ANTITRANSPIRANTE**

[72] JONES, STEVAN DAVID, US  
[72] SWAILE, DAVID FREDERICK, US  
[72] KUMARI, HARSHITA, US  
[72] ADE-BROWNE, CHANDRA A., US  
[72] DAWN, ARNAB, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[71] UNIVERSITY OF CINCINNATI, US  
[85] 2023-12-28  
[86] 2022-07-07 (PCT/US2022/036279)  
[87] (WO2023/287626)  
[30] US (63/222,129) 2021-07-15

[21] **3,225,763**  
[13] A1

[51] **Int.Cl. B67D 3/00 (2006.01) B67D 3/02 (2006.01) B67D 3/04 (2006.01)**

[25] EN  
[54] **SYSTEM FOR DISPENSING LIQUID FROM INVERTED CONTAINER**  
[54] **SYSTEME DE DISTRIBUTION DE LIQUIDE A PARTIR D'UN RECIPIENT INVERSE**

[72] PORTER, THOMAS, US  
[71] SERVER PRODUCTS, INC., US  
[85] 2023-12-28  
[86] 2022-08-17 (PCT/US2022/040547)  
[87] (WO2023/023117)  
[30] US (63/233,944) 2021-08-17

[21] **3,225,764**  
[13] A1

[51] **Int.Cl. B01D 61/14 (2006.01) B01D 63/02 (2006.01) C02F 1/02 (2006.01) C02F 1/44 (2006.01) C02F 1/58 (2006.01)**

[25] EN  
[54] **METHOD AND SYSTEM OF REMOVING ENVIRONMENTAL CONTAMINANTS FROM WATER**  
[54] **PROCEDE ET SYSTEME D'ELIMINATION DES CONTAMINANTS ENVIRONNEMENTAUX DE L'EAU**

[72] WEGNER, PAUL CHARLES, US  
[71] WEGNER, PAUL CHARLES, US  
[85] 2024-01-12  
[86] 2022-07-11 (PCT/US2022/036622)  
[87] (WO2023/287675)  
[30] US (63/220,583) 2021-07-12  
[30] US (17/861,317) 2022-07-11

[21] **3,225,765**  
[13] A1

[51] **Int.Cl. B32B 15/04 (2006.01) B32B 15/085 (2006.01) B32B 27/32 (2006.01) C08L 63/00 (2006.01)**

[25] EN  
[54] **A LAMINATE OF MULTILAYER FILMS AND PROCESS THEREOF**  
[54] **STRATIFIE DE FILMS MULTICOUCHES ET LEUR PROCEDE**

[72] NAIR, HARIHARAN KRISHNAN, IN  
[71] EPL LIMITED, IN  
[85] 2024-01-12  
[86] 2022-07-13 (PCT/IN2022/050636)  
[87] (WO2023/286084)  
[30] IN (202121031635) 2021-07-14

[21] **3,225,766**  
[13] A1

[51] **Int.Cl. C07C 233/47 (2006.01) C07C 231/02 (2006.01)**

[25] EN  
[54] **SUPRAMOLECULAR AMINO ACID OR SALT THEREOF, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**  
[54] **ACIDE AMINE SUPRAMOLECULAIRE OU SEL DE CELUI-CI, SON PROCEDE DE PREPARATION ET SON UTILISATION**

[72] ZHANG, JIAN, CN  
[71] SUZHOU OULIT BIOPHARM CO., LTD., CN  
[85] 2024-01-12  
[86] 2022-07-22 (PCT/CN2022/107270)  
[87] (WO2023/001267)  
[30] CN (202110837472.2) 2021-07-23

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[21] **3,225,768**  
[13] A1

[51] **Int.Cl. G06F 3/048 (2013.01) G06Q 50/18 (2012.01) G06F 16/36 (2019.01) G06N 20/00 (2019.01) G06N 3/08 (2023.01) G06N 5/02 (2023.01) G06N 5/04 (2023.01) G09B 19/10 (2006.01)**

[25] EN

[54] **AI-AUGMENTED AUDITING PLATFORM INCLUDING TECHNIQUES FOR PROVIDING AI-EXPLAINABILITY FOR PROCESSING DATA THROUGH MULTIPLE LAYERS**

[54] **PLATEFORME D'AUDIT AUGMENTEE PAR IA INCLUANT DES TECHNIQUES DESTINEES A PERMETTRE L'EXPLICATION PAR IA POUR LE TRAITEMENT DE DONNEES A TRAVERS DE MULTIPLES COUCHES**

[72] LI, CHUNG-SHENG, US  
[72] CHENG, WINNIE, US  
[72] FLAVELL, MARK JOHN, US  
[72] HALLMARK, LORI MARIE, US  
[72] LIZOTTE, NANCY ALAYNE, US  
[72] LEONG, KEVIN MA, US  
[72] O'ROURKE, KEVIN MICHAEL, US  
[72] HILL, ROBERT MICHAEL, US  
[72] DELILLE, TIMOTHY, US  
[72] RAMIREZ, MARIA JESUS PEREZ, US  
[72] GIACOMUCCI, THOMAS VINCENT, US

[71] PWC PRODUCT SALES LLC, US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/073292)  
[87] (WO2023/279047)  
[30] US (63/217,119) 2021-06-30  
[30] US (63/217,123) 2021-06-30  
[30] US (63/217,127) 2021-06-30  
[30] US (63/217,131) 2021-06-30  
[30] US (63/217,134) 2021-06-30

[21] **3,225,769**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 6/00 (2024.01)**

[25] EN

[54] **A METHOD TO OBTAIN A NEAR-INFRARED SPECTROSCOPY CEREBRAL SIGNAL**

[54] **PROCEDE POUR OBTENIR UN SIGNAL CEREBRAL DE SPECTROSCOPIE PROCHE INFRAROUGE**

[72] IBANEZ BALLESTEROS, JOAQUIN, ES  
[72] MOLINA RODRIGUEZ, SERGIO, ES  
[72] BELMONTE MARTINEZ, CARLOS, ES

[71] NEWMANBRAIN, S.L., ES  
[85] 2024-01-12  
[86] 2022-07-11 (PCT/EP2022/069275)  
[87] (WO2023/001616)  
[30] EP (21382675.3) 2021-07-23  
[30] EP (21382733.0) 2021-08-03

[21] **3,225,770**  
[13] A1

[51] **Int.Cl. A61M 29/04 (2006.01) A61F 2/82 (2013.01)**

[25] EN

[54] **CERVICAL DILATOR**

[54] **DILATATEUR CERVICAL**

[72] REEVES, MATTHEW, US  
[71] CELESTIAL LIFE SCIENCES, LLC, US

[85] 2024-01-12  
[86] 2022-08-18 (PCT/US2022/075119)  
[87] (WO2023/023582)  
[30] US (63/234,493) 2021-08-18

[21] **3,225,771**  
[13] A1

[51] **Int.Cl. G06F 40/20 (2020.01) G06Q 10/06 (2023.01) G06F 16/20 (2019.01) G06F 16/24 (2019.01) G06F 16/25 (2019.01) G06F 16/93 (2019.01) G06N 20/00 (2019.01) G06F 40/10 (2020.01) G06F 40/30 (2020.01) G06F 40/40 (2020.01) G06N 5/02 (2023.01) G06N 5/04 (2023.01) G06Q 40/00 (2023.01)**

[25] EN

[54] **NOT AI-AUGMENTED AUDITING PLATFORM INCLUDING TECHNIQUES FOR AUTOMATED ASSESSMENT OF VOUCHING EVIDENCE**

[54] **PLATE-FORME DE VERIFICATION ENRICHIE EN IA COMPRENANT DES TECHNIQUES D'EVALUATION AUTOMATISEE D'UNE PREUVE DE CERTIFICATION**

[72] LI, CHUNG-SHENG, US  
[72] CHENG, WINNIE, US  
[72] FLAVELL, MARK JOHN, US  
[72] HALLMARK, LORI MARIE, US  
[72] LIZOTTE, NANCY ALAYNE, US  
[72] LEONG, KEVIN MA, US  
[72] ZHU, DI, US  
[72] O'ROURKE, KEVIN MICHAEL, US  
[72] KWON, EUN KYUNG, US  
[72] NARULA, VANDIT, US  
[72] CHEN, WEICHAO, US  
[72] RAMIREZ, MARIA JESUS PEREZ, US

[71] PWC PRODUCT SALES LLC, US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/073277)  
[87] (WO2023/279037)  
[30] US (63/217,119) 2021-06-30  
[30] US (63/217,123) 2021-06-30  
[30] US (63/217,127) 2021-06-30  
[30] US (63/217,131) 2021-06-30  
[30] US (63/217,134) 2021-06-30

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[21] <b>3,225,772</b> [13] A1	[21] <b>3,225,774</b> [13] A1	[21] <b>3,225,776</b> [13] A1
[51] <b>Int.Cl. A61B 18/00 (2006.01) A61B 18/14 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01)</b>	[51] <b>Int.Cl. G06Q 10/08 (2023.01)</b>	[51] <b>Int.Cl. A61K 48/00 (2006.01) C07K 14/47 (2006.01) C12N 15/86 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>ELECTRODE DEVICE FOR BLOCKING OR CONTROLLING NERVES IN BODY</b>	[54] <b>SYSTEM AND METHOD TO DELIVER GOODS WITH PRECISE HANDLING REQUIREMENTS</b>	[54] <b>GENE THERAPY FOR GALACTOSEMIA</b>
[54] <b>DISPOSITIF D'ELECTRODE POUR BLOQUER OU COMMANDER DES NERFS DANS LE CORPS</b>	[54] <b>SYSTEME ET PROCEDE POUR LIVRER DES MARCHANDISES AVEC EXIGENCES DE MANIPULATION PRECISES</b>	[54] <b>THERAPIE GENIQUE POUR GALACTOSEMIE</b>
[72] BACH, DU JIN, KR	[72] GREEN, KATHY, US	[72] BEARD, CLAYTON, US
[72] JO, SEOK HYEON, KR	[71] COVALENCY, INC., US	[72] CHAPMAN, JULIA NICOLE, US
[71] DEEPCURE INC., KR	[85] 2024-01-12	[72] MCCOY, DANIEL DAVID, US
[85] 2024-01-12	[86] 2022-08-03 (PCT/US2022/039349)	[71] BRIDGEBIO GENE THERAPY RESEARCH, INC., US
[86] 2021-07-16 (PCT/KR2021/009195)	[87] (WO2023/014845)	[85] 2023-12-28
[87] (WO2023/286893)	[30] US (63/228,858) 2021-08-03	[86] 2022-07-01 (PCT/US2022/073389)
[30] KR (10-2021-0091643) 2021-07-13		[87] (WO2023/279108)
		[30] US (63/217,456) 2021-07-01
		[30] US (63/343,015) 2022-05-17
	[21] <b>3,225,775</b> [13] A1	
[21] <b>3,225,773</b> [13] A1	[51] <b>Int.Cl. B63B 21/50 (2006.01) B63B 35/00 (2020.01) E21C 50/00 (2006.01)</b>	[21] <b>3,225,779</b> [13] A1
[51] <b>Int.Cl. C11D 1/83 (2006.01) C11D 1/66 (2006.01) C11D 3/20 (2006.01) C11D 3/33 (2006.01) C11D 11/00 (2006.01) C11D 1/29 (2006.01)</b>	[25] EN	[51] <b>Int.Cl. A23K 20/121 (2016.01)</b>
[25] EN	[54] <b>ALTERNATE STEPPING DEEP-SEA MINING SYSTEM AND METHOD BASED ON CLEAN ENERGY PLATFORM</b>	[25] EN
[54] <b>LIQUID PHOSPHATE-FREE DETERGENT COMPOSITION FOR THE REDUCTION OF MICROFIBER RELEASE</b>	[54] <b>SYSTEME ET PROCEDE D'EXPLOITATION MINIERE SUR HAUT FOND PAR ETAPES ALTERNEES BASES SUR UNE PLATEFORME D'ENERGIE PROPRE</b>	[54] <b>USE OF FURANCARBOXYLIC ACIDS IN THE PREPARATION OF ADDITIVES FOR ANIMAL FEEDS</b>
[54] <b>COMPOSITION DETERGENTE LIQUIDE EXEMPT DE PHOSPHATES POUR LA REDUCTION DE LA LIBERATION DE MICROFIBRES</b>	[72] SHENG, SONGWEI, CN	[54] <b>UTILISATION D'ACIDE FORMIQUE FURANE DANS LA PREPARATION D'UN ADDITIF ALIMENTAIRE POUR ANIMAUX</b>
[72] BONASTRE GILBERT, NURIA, ES	[72] WANG, KUNLIN, CN	[72] PENG, XIANFENG, CN
[72] DE MORAGAS, MARIA, ES	[72] WANG, ZHENPENG, CN	[71] ANIPHA TECHNOLOGIES PTY LTD, AU
[72] BEZIAU, ANTOINE MAXIME CHARLES JOSEPH, DE	[72] DING, WEIWEI, CN	[85] 2024-01-12
[72] FRANKE, JUERGEN, DE	[72] CHEN, MIN, CN	[86] 2022-07-29 (PCT/CN2022/108803)
[72] MERKLE, GERHARD, DE	[71] GUANGZHOU INSTITUTE OF ENERGY CONVERSION, CHINESE ACADEMY OF SCIENCES, CN	[87] (WO2022/253361)
[72] FERNANDEZ, HECTOR ALONSO, ES	[85] 2024-01-12	[30] CN (202110871702.7) 2021-07-30
[72] PENA, FELIX POZA, ES	[86] 2023-08-24 (PCT/CN2023/114715)	
[71] BASF SE, DE	[87] (WO2024/008211)	
[71] INDUSTRIA DE DISENO TEXTIL S.A., ES	[30] CN (202310494852.X) 2023-05-04	
[85] 2024-01-12		
[86] 2022-06-14 (PCT/EP2022/066243)		
[87] (WO2023/285064)		
[30] EP (21382636.5) 2021-07-14		

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<p style="text-align: center;">[21] <b>3,225,780</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 31/198 (2006.01) A61K 8/44 (2006.01) A61K 8/46 (2006.01) A61K 31/26 (2006.01) A61P 39/06 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>MIXTURES AND COMPOSITIONS COMPRISING SULFORAPHANE AND GLYCINE</b></p> <p>[54] <b>MELANGES ET COMPOSITIONS COMPRENANT DU SULFORAPHANE ET DE LA GLYCINE</b></p> <p>[72] BLUM-SPERISEN, STEPHANIE, CH</p> <p>[72] GUT, PHILIPP, CH</p> <p>[72] HERZIG, SEBASTIEN, CH</p> <p>[72] THEVENET, JONATHAN, FR</p> <p>[72] BARABASI, ALBERT-LASZLO, US</p> <p>[72] DO VALLE, ITALO FARIA, US</p> <p>[72] RUPPERT, PETER, US</p> <p>[72] NASIRIAN, FARZANEH, US</p> <p>[71] SOCIETE DES PRODUITS NESTLE S.A., CH</p> <p>[71] NORTHEASTERN UNIVERSITY, US</p> <p>[85] 2024-01-12</p> <p>[86] 2022-08-16 (PCT/EP2022/072870)</p> <p>[87] (WO2023/021040)</p> <p>[30] US (63/234,436) 2021-08-18</p>	<p style="text-align: center;">[21] <b>3,225,783</b> [13] A1</p> <p>[51] <b>Int.Cl. B63B 1/32 (2006.01) B63H 1/28 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>MARINE VESSEL FLOW MODIFYING DEVICE</b></p> <p>[54] <b>D'ECCOLEMENT DE NAVIRE MARIN</b></p> <p>[72] PENA RONCERO, BLANCA, CA</p> <p>[71] BPE TECHNOLOGIES INC., CA</p> <p>[85] 2024-01-12</p> <p>[86] 2022-02-04 (PCT/CA2022/050165)</p> <p>[87] (WO2023/000077)</p> <p>[30] GB (2110498.9) 2021-07-21</p>	<p style="text-align: center;">[21] <b>3,225,785</b> [13] A1</p> <p>[51] <b>Int.Cl. C07D 401/04 (2006.01) A61K 31/444 (2006.01) A61P 35/00 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 417/14 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>CD38 MODULATORS AND METHODS OF USE THEREOF</b></p> <p>[54] <b>MODULATEURS DE CD38 ET LEURS PROCEDES D'UTILISATION</b></p> <p>[72] ASHCRAFT, LUKE W., US</p> <p>[72] CHUANG, CHIHYUAN, US</p> <p>[72] GARCIA, ALFREDO, US</p> <p>[72] MORGAN, BRADLEY P., US</p> <p>[72] IWAN, BARTLOMIEJ PRZEMYSLAW, US</p> <p>[72] MERMIN, MOLLY EICHEL, US</p> <p>[71] CYTOKINETICS, INC., US</p> <p>[85] 2023-12-28</p> <p>[86] 2022-07-11 (PCT/US2022/073596)</p> <p>[87] (WO2023/288195)</p> <p>[30] US (63/203,190) 2021-07-12</p>
<p style="text-align: center;">[21] <b>3,225,782</b> [13] A1</p> <p>[51] <b>Int.Cl. A61M 16/00 (2006.01) A61M 16/04 (2006.01) A61M 16/06 (2006.01) A61M 16/20 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>CONTACTLESS CPAP DEVICE</b></p> <p>[54] <b>DISPOSITIF VPPC SANS CONTACT</b></p> <p>[72] MILLER, SPENCER, US</p> <p>[71] MILLER, SPENCER, US</p> <p>[85] 2024-01-12</p> <p>[86] 2022-07-15 (PCT/US2022/037294)</p> <p>[87] (WO2023/288064)</p> <p>[30] US (17/378,525) 2021-07-16</p>	<p style="text-align: center;">[21] <b>3,225,784</b> [13] A1</p> <p>[51] <b>Int.Cl. C07D 495/22 (2006.01) C08G 61/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>TWO DIMENSIONAL BENZO[4,5]IMIDAZO[2,1-A]ISOINDOLE INCORPORATED NON-FULLERENE ELECTRON ACCEPTORS FOR ORGANIC PHOTOVOLTAIC DEVICES</b></p> <p>[54] <b>ACCEPTEURS D'ELECTRONS NON-FULLERENES INCORPORES DE BENZO[4,5]IMIDAZO[2,1-A]ISOINDOLE A DEUX DIMENSIONS POUR DISPOSITIFS PHOTOVOLTAIQUES ORGANIQUES</b></p> <p>[72] HE, YINGHUI, CA</p> <p>[72] LU, JIANPING, CA</p> <p>[72] ALEM, SALIMA, CA</p> <p>[72] TAO, YE, CA</p> <p>[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA</p> <p>[85] 2024-01-12</p> <p>[86] 2022-07-12 (PCT/CA2022/051080)</p> <p>[87] (WO2023/283728)</p> <p>[30] CA (3124916) 2021-07-14</p>	<p style="text-align: center;">[21] <b>3,225,786</b> [13] A1</p> <p>[51] <b>Int.Cl. G09F 23/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>DOOR CLOSER POWER ADJUSTMENT</b></p> <p>[54] <b>REGLAGE DE PUISSANCE DE FERME-PORTE</b></p> <p>[72] SHETTY, ADITHYA GANGADHAR, IN</p> <p>[71] SCHLAGE LOCK COMPANY LLC, US</p> <p>[85] 2024-01-12</p> <p>[86] 2022-07-12 (PCT/US2022/036806)</p> <p>[87] (WO2023/287777)</p> <p>[30] US (17/372,926) 2021-07-12</p>

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[21] **3,225,787**  
[13] A1

[51] **Int.Cl. A61K 31/4245 (2006.01) A61K 9/00 (2006.01) A61K 31/4402 (2006.01) A61K 45/06 (2006.01) A61P 9/00 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING HYPERTROPHIC CARDIOMYOPATHY**

[54] **PROCEDES DE TRAITEMENT D'UNE CARDIOMYOPATHIE HYPERTROPHIQUE**

[72] MALIK, FADY, US  
[72] KUPFER, STUART, US  
[72] HEITNER, STEPHEN B., US  
[72] ROBERTSON, LAURA ANN, US  
[72] MENG, LIXIN, US  
[72] OSMUKHINA, ANNA, US  
[72] WOHLTMAN, QI, US  
[71] CYTOKINETICS, INC., US  
[85] 2023-12-28  
[86] 2022-07-15 (PCT/US2022/073808)  
[87] (WO2023/288324)  
[30] US (63/203,333) 2021-07-16  
[30] US (63/299,753) 2022-01-14  
[30] US (63/305,609) 2022-02-01  
[30] US (63/331,197) 2022-04-14  
[30] US (63/343,975) 2022-05-19

[21] **3,225,788**  
[13] A1

[51] **Int.Cl. A61B 18/00 (2006.01) A61B 18/14 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **ELECTRODE DEVICE FOR BLOCKING OR CONTROLLING NERVES IN BODY**

[54] **DISPOSITIF D'ELECTRODE PERMETTANT DE BLOQUER OU COMMANDER DES NERFS DANS UN CORPS**

[72] BACH, DU JIN, KR  
[72] JO, SEOK HYEON, KR  
[71] DEEPPURE INC., KR  
[85] 2024-01-12  
[86] 2021-07-16 (PCT/KR2021/009192)  
[87] (WO2023/286892)  
[30] KR (10-2021-0091638) 2021-07-13

[21] **3,225,789**  
[13] A1

[51] **Int.Cl. G06F 16/955 (2019.01)**

[25] EN

[54] **USER INTERFACES FOR SURFACING WEB BROWSER HISTORY DATA**

[54] **INTERFACES UTILISATEUR POUR SURFACER DES DONNEES D'HISTORIQUE DE NAVIGATEUR WEB**

[72] YUSHKINA, YANA, US  
[72] CHANG, SOPHIE, US  
[72] CROUSE, MICHAEL BLAIR, US  
[72] AHMADI, MOHAMAD HASAN, US  
[72] LI, TOMMY CHENDONG, US  
[72] HOVANESIAN, MANUK ARMEN, US  
[72] DONNELLY, JUSTIN GABRIEL, US  
[72] BANSAL, TARUN, US  
[72] POR, JOHN OLIVER, US  
[72] SCHUBSDA, LUKAS, US  
[71] GOOGLE LLC, US  
[85] 2023-12-28  
[86] 2022-08-05 (PCT/US2022/074594)  
[87] (WO2023/019089)  
[30] US (63/260,164) 2021-08-11

[21] **3,225,791**  
[13] A1

[51] **Int.Cl. E05B 37/10 (2006.01) E05B 67/22 (2006.01) E05B 37/02 (2006.01)**

[25] EN

[54] **PORTABLE LOCK APPARATUS**

[54] **APPAREIL CADENAS PORTATIF**

[72] TOWNSEND, ROBERT, US  
[72] KUNNATH, ARJUN S., IN  
[72] SHETTIGAR, RAMAMOHAN BHASKAR, IN  
[72] RAMAKRISHNA, MANJUNATHA, IN  
[71] SCHLAGE LOCK COMPANY LLC, US  
[85] 2024-01-12  
[86] 2022-07-12 (PCT/US2022/036809)  
[87] (WO2023/287779)  
[30] US (17/373,098) 2021-07-12

[21] **3,225,792**  
[13] A1

[51] **Int.Cl. G06Q 10/04 (2023.01) G06Q 50/02 (2012.01)**

[25] EN

[54] **HARVEST YIELD PREDICTION METHODS AND SYSTEM**

[54] **PROCEDES ET SYSTEME DE PREDICTION DE RENDEMENT DE RECOLTE**

[72] MEIER, IAN ROBERT, CA  
[71] BITSTRATA SYSTEMS INC., CA  
[85] 2024-01-12  
[86] 2022-07-14 (PCT/CA2022/051097)  
[87] (WO2023/283740)  
[30] US (63/222,185) 2021-07-15

[21] **3,225,793**  
[13] A1

[51] **Int.Cl. A01G 24/50 (2018.01) A01G 9/04 (2006.01) A01G 31/02 (2006.01)**

[25] EN

[54] **HYDROPONIC CULTIVATION SYSTEM**

[54] **SYSTEME DE CULTURE HYDROPONIQUE**

[72] CHERUKUPALLI, SRINIVAS, IN  
[72] BRABBS, NOEL STEPHEN, LU  
[72] GAIKWAD, NARAYAN PANDURANG, IN  
[72] MANJARAMKAR, VIRENDRA GANGARAM, IN  
[71] DUPONT SAFETY & CONSTRUCTION, INC., US  
[85] 2023-12-28  
[86] 2022-09-06 (PCT/US2022/075964)  
[87] (WO2023/039366)  
[30] US (17/467,992) 2021-09-07

[21] **3,225,795**  
[13] A1

[51] **Int.Cl. G16B 20/00 (2019.01) G16H 50/20 (2018.01) G16B 40/20 (2019.01)**

[25] EN

[54] **METHYLATION FRAGMENT PROBABILISTIC NOISE MODEL WITH NOISY REGION FILTRATION**

[54] **MODELE DE BRUIT PROBABILISTE DE FRAGMENT DE METHYLATION AVEC FILTRATION DE REGION BRUYANTE**

[72] LIU, QINWEN, US  
[71] GRAIL, LLC, US  
[85] 2024-01-12  
[86] 2022-09-16 (PCT/US2022/043786)  
[87] (WO2023/043991)  
[30] US (63/246,030) 2021-09-20

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[21] **3,225,798**  
[13] A1

[51] **Int.Cl. A23L 33/00 (2016.01) A61K 9/00 (2006.01) A61K 31/575 (2006.01) A61K 31/7048 (2006.01) A61K 36/00 (2006.01) A61K 36/15 (2006.01) A61K 36/752 (2006.01) A61K 45/06 (2006.01) A61P 3/00 (2006.01) A61P 3/06 (2006.01) A61P 9/00 (2006.01)**

[25] EN  
[54] **COMBINATION FOR USE FOR THE TREATMENT OF HYPERCHOLESTEROLEMIA, HYPERLIPIDEMIA, CARDIOVASCULAR DISEASE AND METABOLIC SYNDROME**

[54] **COMBINAISON DESTINEE A ETRE UTILISEE POUR LE TRAITEMENT DE L'HYPERCHOLESTEROLEMIE, DE L'HYPERLIPIDEMIE, D'UNE MALADIE CARDIOVASCULAIRE ET DU SYNDROME METABOLIQUE**

[72] ZANARDI, ANDREA, IT  
[72] GELFI, ELENA, IT  
[72] MOSCONI, MANUEL, IT  
[72] GASPARRI, FRANCO, IT  
[71] MEDA PHARMA S.P.A., IT  
[85] 2024-01-12  
[86] 2022-07-19 (PCT/EP2022/070248)  
[87] (WO2023/001842)  
[30] GB (2110358.5) 2021-07-19

[21] **3,225,800**  
[13] A1

[51] **Int.Cl. A61K 8/22 (2006.01) A61K 31/05 (2006.01) A61K 31/055 (2006.01) A61K 31/125 (2006.01) A61K 31/327 (2006.01) A61K 33/40 (2006.01) A61P 31/00 (2006.01) A61P 31/02 (2006.01) A61P 31/04 (2006.01) A61Q 11/00 (2006.01)**

[25] EN  
[54] **ORAL PHARMACEUTICAL COMPOSITION FOR PREVENTING AND/OR TREATING DISEASES OF THE SOFT AND HARD TISSUES SURROUNDING THE TOOTH IN THE ORAL CAVITY**

[54] **COMPOSITION PHARMACEUTIQUE ORALE POUR PREVENIR ET/OU TRAITER DES MALADIES DES TISSUS MOUS ET DURS QUI ENTOURENT LA DENT DANS LA CAVITE BUCCALE**

[72] GALVAN GONZALEZ, TOMAS, CL  
[72] ROSENBERG, DAVID, CL  
[72] GALVAN INOSTROZA, FELIPE, CL  
[71] INGALFARMA SPA, CL  
[85] 2023-12-29  
[86] 2021-07-02 (PCT/CL2021/050060)  
[87] (WO2023/272404)

[21] **3,225,801**  
[13] A1

[51] **Int.Cl. C07D 491/052 (2006.01)**

[25] EN  
[54] **SYNTHESIS OF SUBSTITUTED TRICYCLIC AMIDES AND ANALOGUES THEREOF**

[54] **SYNTHESE D'AMIDES TRICYCLIQUES SUBSTITUES ET ANALOGUES DE CEUX-CI**

[72] MASON, JEREMY, US  
[72] PALLERLA, MAHESH, US  
[72] PAMULAPATI, GANAPATI REDDY, US  
[71] ARBUTUS BIOPHARMA CORPORATION, CA  
[85] 2024-01-12  
[86] 2022-07-15 (PCT/IB2022/056546)  
[87] (WO2023/002323)  
[30] US (63/223,297) 2021-07-19

[21] **3,225,802**  
[13] A1

[51] **Int.Cl. F16G 11/10 (2006.01) F16L 53/38 (2018.01)**

[25] EN  
[54] **SECURING ASSEMBLY**

[54] **ENSEMBLE D'ASSUJETTISSEMENT**

[72] REYNOLDS, THOMAS, GB  
[71] GRIPPLE LIMITED, GB  
[85] 2024-01-12  
[86] 2022-03-17 (PCT/IB2022/052427)  
[87] (WO2023/002258)  
[30] GB (2110626.5) 2021-07-23  
[30] GB (2202477.2) 2022-02-23

[21] **3,225,804**  
[13] A1

[51] **Int.Cl. B60K 11/08 (2006.01) B60K 11/04 (2006.01)**

[25] EN  
[54] **CENTER-OPENING PANEL FOR CONTROLLING AIR FLOW THROUGH A HEAT EXCHANGER**

[54] **PANNEAU D'OUVERTURE CENTRALE POUR COMMANDER UN FLUX D'AIR A TRAVERS UN ECHANGEUR THERMIQUE**

[72] MANHIRE, JEFFREY BRUCE, US  
[72] LINDBERG, BRAENDON R., US  
[71] MAGNA EXTERIORS INC., CA  
[85] 2024-01-12  
[86] 2022-08-09 (PCT/US2022/039782)  
[87] (WO2023/018683)  
[30] US (63/231,043) 2021-08-09

[21] **3,225,805**  
[13] A1

[51] **Int.Cl. A61L 27/60 (2006.01)**

[25] EN  
[54] **METHOD OF PROCUREMENT AND USE OF TISSUE FOR ALLOGRAFTS**

[54] **PROCEDE D'ACQUISITION ET D'UTILISATION DE TISSU POUR ALLOGREFFES**

[72] FONSECA CANTEROS, MARCELO ANDRES, CL  
[71] CIPO, CA  
[71] FONSECA CANTEROS, MARCELO ANDRES, CL  
[85] 2024-01-12  
[86] 2021-07-14 (PCT/IB2021/056338)  
[87] (WO2023/285859)



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[21] **3,225,806**  
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01) A61B 1/015 (2006.01) A61B 1/307 (2006.01) A61B 18/26 (2006.01)**

[25] EN

[54] **REMOTE MONITORING OF FLUID PRESSURE IN BIOLOGICAL TISSUE**

[54] **SURVEILLANCE A DISTANCE DE PRESSION DE FLUIDE DANS UN TISSU BIOLOGIQUE**

[72] OSTROVSKY, ISAAC, US  
[72] ALTSHULER, GREGORY, US  
[72] BOUTOUSSOV, DMITRI, US  
[72] PILIPETSKII, SERGEI, US  
[72] YAROSLAVSKY, ILYA, US  
[72] TRAXER, OLIVIER, US  
[71] IPG PHOTONICS CORPORATION, US

[85] 2024-01-12  
[86] 2022-07-19 (PCT/US2022/037582)  
[87] (WO2023/003871)  
[30] US (63/223,251) 2021-07-19  
[30] US (63/228,216) 2021-08-02

[21] **3,225,807**  
[13] A1

[51] **Int.Cl. B64C 13/00 (2006.01) B64C 19/00 (2006.01) B64D 45/00 (2006.01) G06F 11/30 (2006.01)**

[25] EN

[54] **SIMPLEX FLIGHT CONTROL COMPUTER TO BE USED IN A FLIGHT CONTROL SYSTEM**

[54] **CALCULATEUR DE COMMANDES DE VOL SIMPLEX DESTINE A ETRE UTILISE DANS UN SYSTEME DE COMMANDE DE VOL**

[72] CADOTTE, PATRICK, CA  
[72] LIESK, TORSTEN, CA  
[72] CLEMENT, FREDERICK, CA  
[71] THALES CANADA INC., CA

[85] 2024-01-12  
[86] 2021-06-21 (PCT/IB2021/055452)  
[87] (WO2022/074470)  
[30] US (63/089,229) 2020-10-08

[21] **3,225,808**  
[13] A1

[51] **Int.Cl. A61P 7/00 (2006.01) C12N 9/12 (2006.01) C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **CONTEXT-SPECIFIC ADENINE BASE EDITORS AND USES THEREOF**

[54] **EDITEURS DE BASE ADENINE SPECIFIQUES AU CONTEXTE ET LEURS UTILISATIONS**

[72] LIU, DAVID R., US  
[72] ZHAO, KEVIN TIANMENG, US  
[71] THE BROAD INSTITUTE, INC., US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[85] 2024-01-12  
[86] 2022-07-15 (PCT/US2022/073781)  
[87] (WO2023/288304)  
[30] US (63/222,939) 2021-07-16  
[30] US (63/323,061) 2022-03-23

[21] **3,225,809**  
[13] A1

[51] **Int.Cl. A01G 9/14 (2006.01) A01G 22/05 (2018.01) A01G 31/02 (2006.01)**

[25] EN

[54] **CONTINUOUS CULTIVATION OF PLANTS**

[54] **CULTURE CONTINUE DE PLANTES**

[72] BARTH, RUUD, NL  
[72] VAN TUIJL, BART ADRIANUS JOHANNES, NL  
[71] SAIA HOLDING B.V., NL

[85] 2024-01-12  
[86] 2022-07-12 (PCT/EP2022/069427)  
[87] (WO2023/285445)  
[30] NL (2028714) 2021-07-13

[21] **3,225,810**  
[13] A1

[51] **Int.Cl. A01N 1/00 (2006.01) A01N 1/02 (2006.01)**

[25] EN

[54] **PRESERVATIVE COMPOSITION FOR NUCLEIC ACIDS AND BIOLOGICAL SAMPLES AND METHODS OF USE**

[54] **COMPOSITION DE CONSERVATION POUR ACIDES NUCLEIQUES ET ECHANTILLONS BIOLOGIQUES ET PROCEDES D'UTILISATION**

[72] PICCIRILLI, JOSEPH, US  
[72] WEIKART, CHRISTOPHER, US  
[72] KLIBANOV, ALEXANDER M., US  
[72] HEXOM, TIA, US  
[72] NUNEZ, BRANDY, US  
[72] ABRAMS, ROBERT S., US  
[71] SIO2 MEDICAL PRODUCTS, INC., US

[85] 2024-01-12  
[86] 2022-07-15 (PCT/US2022/037397)  
[87] (WO2023/288115)  
[30] US (63/222,394) 2021-07-15

[21] **3,225,811**  
[13] A1

[51] **Int.Cl. E05F 3/12 (2006.01) E05F 1/10 (2006.01) F16K 1/50 (2006.01)**

[25] EN

[54] **DOOR CLOSER ADJUSTMENT WITH BACKOUT DISCOURAGEMENT**

[54] **REGLAGE DE FERME-PORTE A FONCTION ANTI-RETOUR**

[72] JACOB, COLINS V., IN  
[72] SALISBURY, CHRISTOPHER A., US  
[72] SHANMUGAM, KANAGARAJ, IN  
[72] BOOMER, ZACHARY P., US  
[72] CANNON, DANIEL, US  
[71] SCHLAGE LOCK COMPANY LLC, US

[85] 2024-01-12  
[86] 2022-07-12 (PCT/US2022/036801)  
[87] (WO2023/287772)  
[30] US (17/373,029) 2021-07-12

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[21] **3,225,812**  
[13] A1

[51] **Int.Cl. B60M 1/23 (2006.01) B60M 1/24 (2006.01) F16L 3/11 (2006.01)**  
[25] EN  
[54] **SUSPENSION ASSEMBLY**  
[54] **ENSEMBLE SUSPENSION**  
[72] BARNES, SAMUEL, GB  
[71] GRIPPLE LIMITED, GB  
[85] 2024-01-12  
[86] 2022-07-14 (PCT/IB2022/056487)  
[87] (WO2023/002309)  
[30] GB (2110316.3) 2021-07-19  
[30] GB (2204338.4) 2022-03-28  
[30] GB (2210130.7) 2022-07-11

[21] **3,225,814**  
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01) A61M 5/00 (2006.01) A61M 5/178 (2006.01) A61M 5/20 (2006.01) A61M 5/315 (2006.01)**  
[25] EN  
[54] **DEVICES, SYSTEMS, AND METHODS FOR DELIVERING GAS**  
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE DISTRIBUTION DE GAZ**  
[72] QUINTANA, QUINTON A., US  
[72] WELCHE, NICOLAS, US  
[72] HIDALGO, ISABELLA L., US  
[72] LESCOULIE, JAMES E., US  
[72] AULD, JACK R., US  
[71] ALTAVIZ, LLC, US  
[85] 2024-01-12  
[86] 2022-07-12 (PCT/US2022/036871)  
[87] (WO2023/287824)  
[30] US (63/220,917) 2021-07-12

[21] **3,225,815**  
[13] A1

[51] **Int.Cl. A61K 31/5365 (2006.01) A61K 47/68 (2017.01) A61K 38/20 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) C07K 16/32 (2006.01)**  
[25] EN  
[54] **IL-2/IL-15RBETAGAMMA AGONIST COMBINATION WITH ANTIBODY-DRUG CONJUGATES FOR TREATING CANCER**  
[54] **COMBINAISON D'AGONISTES DE L'IL-2/IL-15RBETAGAMMA AVEC DES CONJUGUES ANTICORPS-MEDICAMENT POUR LE TRAITEMENT DU CANCER**  
[72] KYRYCH SADILKOVA, LENKA, CZ  
[72] MOEBIUS, ULRICH, DE  
[72] BECHARD, DAVID, FR  
[72] ADKINS, IRENA, CZ  
[71] CYTUNE PHARMA, FR  
[85] 2024-01-12  
[86] 2022-08-16 (PCT/EP2022/072845)  
[87] (WO2023/017191)  
[30] EP (21191347.0) 2021-08-13

[21] **3,225,816**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/352 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **USE OF PHYTOCANNABINOIDS FOR TREATING ENDOMETRIAL CANCER AND ENDOMETRIOSIS**  
[54] **UTILISATION DE PHYTOCANNABINOIDES POUR TRAITER LE CANCER DE L'ENDOMETRE ET L'ENDOMETRIOSE**  
[72] NABISSI, MASSIMO, IT  
[72] MARINELLI, OLIVIERO, IT  
[72] AGUZZI, CRISTINA, IT  
[72] ZEPPA, LAURA, IT  
[72] MORELLI, MARIA BEATRICE, IT  
[71] INTEGRATIVE THERAPY DISCOVERY LAB S.R.L., US  
[85] 2024-01-12  
[86] 2022-07-12 (PCT/US2022/036758)  
[87] (WO2023/287742)  
[30] US (63/220,938) 2021-07-12

[21] **3,225,817**  
[13] A1

[51] **Int.Cl. A61K 31/21 (2006.01) A61K 47/59 (2017.01)**  
[25] EN  
[54] **COVALENTLY COATED ADENO-ASSOCIATED VIRUS VECTOR FOR ITS USE IN GENE THERAPY**  
[54] **VECTEUR DE VIRUS ADENO-ASSOCIE REVETU DE MANIERE COVALENTE POUR SON UTILISATION EN THERAPIE GENIQUE**  
[72] BORROS GOMEZ, SALVADOR, ES  
[72] GUERRA REBOLLO, MARTA, ES  
[72] STAMPA LOPEZ-PINTO, MARIA, ES  
[72] MONTOLIO DEL OLMO, MARIA SOLEDAD, ES  
[71] INSTITUT QUIMIC DE SARRIA CETS, FUNDACIO PRIVADA, ES  
[71] ASOCIACION DUCHENNE PARENT PROJECT ESPANA, ES  
[85] 2024-01-12  
[86] 2022-07-25 (PCT/EP2022/070768)  
[87] (WO2023/006651)  
[30] EP (21382690.2) 2021-07-26

[21] **3,225,818**  
[13] A1

[51] **Int.Cl. F16B 19/05 (2006.01) F16B 5/04 (2006.01)**  
[25] EN  
[54] **FASTENING COLLARS, MULTI-PIECE FASTENERS, AND METHODS FOR FASTENING**  
[54] **COLLIERS DE FIXATION, ELEMENTS DE FIXATION EN PLUSIEURS PARTIES ET PROCEDES DE FIXATION**  
[72] BRUNET, ARNAUD, FR  
[71] HOWMET AEROSPACE INC., US  
[85] 2024-01-12  
[86] 2022-08-16 (PCT/IB2022/000485)  
[87] (WO2023/021333)  
[30] FR (FR2108785) 2021-08-19  
[30] US (63/234,817) 2021-08-19

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[21] **3,225,819**  
[13] A1

[51] **Int.Cl. A46B 9/02 (2006.01) B33Y 80/00 (2015.01) A46B 9/04 (2006.01)**  
[25] EN  
[54] **METHODS OF DESIGNING AND FABRICATING CUSTOMIZED DENTAL CARE FOR PARTICULAR USERS**  
[54] **PROCEDES DE CONCEPTION ET DE CREATION DE SOINS DENTAIRE PERSONNALISES POUR DES UTILISATEURS PARTICULIERS**  
[72] PAI, AKASH, US  
[71] CLARK, JOSIAH, US  
[72] TAYLOR, RICHARD K., US  
[72] ANDERSON, WILLIAM, US  
[72] PAI, NIDHI, US  
[71] ZEROBRUSH, INC., US  
[85] 2024-01-12  
[86] 2022-07-18 (PCT/US2022/037493)  
[87] (WO2023/288136)  
[30] US (63/222,921) 2021-07-16  
[30] US (17/865,363) 2022-07-14

[21] **3,225,820**  
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61P 35/00 (2006.01) C12N 7/01 (2006.01) C12N 7/04 (2006.01)**  
[25] EN  
[54] **ONCOLYTIC VIRUS AND USE THEREOF**  
[54] **VIRUS ONCOLYTIQUE ET SON UTILISATION**  
[72] ZHOU, GUOQING, CN  
[72] ZHANG, FAN, CN  
[71] JOINT BIOSCIENCES (SH) LTD., CN  
[85] 2024-01-12  
[86] 2022-07-08 (PCT/CN2022/104525)  
[87] (WO2023/284635)  
[30] CN (202110798531.X) 2021-07-14

[21] **3,225,821**  
[13] A1

[51] **Int.Cl. G06N 10/20 (2022.01) G16C 10/00 (2019.01) G06N 10/40 (2022.01) G06N 10/60 (2022.01)**  
[25] EN  
[54] **ITERATIVE PREPARATION OF STATIONARY QUANTUM STATES USING QUANTUM COMPUTERS**  
[54] **PREPARATION ITERATIVE D'ETATS QUANTIQUES STATIONNAIRES A L'AIDE D'ORDINATEURS QUANTIQUES**  
[72] RUBIN, NICHOLAS CHARLES, US  
[72] BABBUSH, RYAN, US  
[71] GOOGLE LLC, US  
[85] 2024-01-12  
[86] 2022-07-15 (PCT/US2022/037304)  
[87] (WO2023/080935)  
[30] US (63/222,533) 2021-07-16

[21] **3,225,822**  
[13] A1

[51] **Int.Cl. A23L 2/395 (2006.01) A24B 15/16 (2020.01)**  
[25] EN  
[54] **COMPOSITIONS COMPRISING CONSTITUENTS, DERIVATIVES OR EXTRACTS OF CANNABIS**  
[54] **COMPOSITIONS COMPRENANT DES CONSTITUANTS, DES DERIVES OU DES EXTRAITS DE CANNABIS**  
[72] ALDERMAN, STEVEN, US  
[72] TALUSKIE, KAREN, US  
[72] WILBERDING, KATHRYN LYNN, US  
[72] HAWKE, JENNI, GB  
[72] DAVIES, ASHLEY, GB  
[72] POOLE, THOMAS, US  
[72] DANIEL, MICHAEL, US  
[72] TANG, KAI, US  
[72] XU, KEYI, US  
[72] MCQUILLAN, KARINA, GB  
[72] CARAWAY, JOHN, US  
[71] NICOVENTURES TRADING LIMITED, GB  
[85] 2024-01-12  
[86] 2022-07-21 (PCT/GB2022/051907)  
[87] (WO2023/002201)  
[30] US (63/224,567) 2021-07-22

[21] **3,225,823**  
[13] A1

[51] **Int.Cl. A21C 1/00 (2006.01) A23L 7/109 (2016.01) B01F 27/72 (2022.01) B01F 33/84 (2022.01) B01F 35/21 (2022.01) B01F 35/22 (2022.01) A21C 1/14 (2006.01) A21C 3/04 (2006.01) A21C 11/20 (2006.01)**  
[25] EN  
[54] **A PASTA PRODUCT PRODUCTION DEVICE AND METHOD OF USE THEREOF**  
[54] **DISPOSITIF DE PRODUCTION DE PRODUIT DE TYPE PATE ET SON PROCEDE D'UTILISATION**  
[72] MARMOTTA, GIOACCHINO, AU  
[71] MARMOTTA, JANE MAREE, AU  
[71] MARMOTTA, GIOACCHINO, AU  
[85] 2024-01-12  
[86] 2022-07-26 (PCT/AU2022/050784)  
[87] (WO2023/004454)  
[30] AU (2021902279) 2021-07-26

[21] **3,225,824**  
[13] A1

[51] **Int.Cl. H01M 8/248 (2016.01) H01M 8/2404 (2016.01) H01M 8/12 (2016.01)**  
[25] FR  
[54] **CLAMPING SYSTEM FOR AN ELECTROCHEMICAL MODULE**  
[54] **SYSTEME DE SERRAGE POUR MODULE ELECTROCHIMIQUE**  
[72] VULLIEZ, KARL, FR  
[72] MONTEREMAND, MATHIEU, FR  
[72] SZYNAL, PHILIPPE, FR  
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR  
[85] 2024-01-12  
[86] 2022-07-06 (PCT/FR2022/051358)  
[87] (WO2023/285751)  
[30] FR (FR2107667) 2021-07-15

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[21] **3,225,825**  
[13] A1

[51] **Int.Cl. A23L 2/395 (2006.01) A23L 2/52 (2006.01) A24B 13/00 (2006.01) A24B 15/16 (2020.01) A61K 9/00 (2006.01) A61K 31/352 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING CONSTITUENTS, DERIVATIVES OR EXTRACTS OF CANNABIS**

[54] **COMPOSITIONS COMPRENANT DES CONSTITUANTS, DES DERIVES OU DES EXTRAITS DE CANNABIS**

[72] ALDERMAN, STEVEN, US

[72] TALUSKIE, KAREN, US

[72] WILBERDING, KATHRYN LYNN, US

[72] HAWKE, JENNI, GB

[72] DAVIES, ASHLEY, GB

[72] POOLE, THOMAS H., US

[72] DANIEL, MICHAEL, US

[72] TANG, KAI, US

[72] XU, KEYI, US

[72] MCQUILLAN, KARINA, GB

[72] CARAWAY, JOHN, US

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2024-01-12

[86] 2022-07-21 (PCT/GB2022/051900)

[87] (WO2023/002194)

[30] US (63/224,570) 2021-07-22

[21] **3,225,826**  
[13] A1

[51] **Int.Cl. G06N 3/02 (2006.01)**

[25] EN

[54] **TWO-DIMENSIONAL POSE ESTIMATIONS**

[54] **ESTIMATIONS DE POSE BIDIMENSIONNELLES**

[72] ROUGIER, CAROLINE, CA

[72] CHO, DONG WOOK, CA

[71] HINGE HEALTH, INC., US

[85] 2024-01-12

[86] 2021-07-27 (PCT/IB2021/056819)

[87] (WO2023/007215)

[21] **3,225,827**  
[13] A1

[51] **Int.Cl. C04B 28/18 (2006.01)**

[25] EN

[54] **MORTAR COMPOSITION AND ITS USE IN CONSTRUCTION**

[54] **COMPOSITION DE MORTIER ET SON UTILISATION DANS LA CONSTRUCTION**

[72] TEJADO RAMOS, JUAN JOSE, ES

[72] CARMONA CARMONA, MARISA, ES

[72] TRISTANCHO TELLO, MARIA DEL CARMEN, ES

[72] RODRIGUEZ LARA, LORENA LAURA, ES

[71] TRISTANCHO TELLO, MARIA DEL CARMEN, ES

[71] RODRIGUEZ LARA, LORENA LAURA, ES

[85] 2024-01-12

[86] 2022-08-05 (PCT/ES2022/070526)

[87] (WO2023/012397)

[30] ES (P202130768) 2021-08-06

[21] **3,225,828**  
[13] A1

[51] **Int.Cl. G06Q 10/10 (2023.01) G06Q 10/04 (2023.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR IDENTIFYING A PAINT AND APPLICATOR COMBINATION**

[54] **SYSTEMES ET PROCEDES D'IDENTIFICATION D'UNE COMBINAISON DE PEINTURE ET D'APPLICATEUR**

[72] LI, HONG, US

[72] KUPAS, JACOB M., US

[72] KASH, MADELINE M., US

[72] FEI, WENJIE, US

[72] TONG, MINH A., US

[71] PPG INDUSTRIES OHIO, INC., US

[85] 2024-01-12

[86] 2022-07-13 (PCT/US2022/073661)

[87] (WO2023/015101)

[30] US (63/228,182) 2021-08-02

[21] **3,225,829**  
[13] A1

[51] **Int.Cl. A24B 15/16 (2020.01) A23L 2/395 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING A CONSTITUENT, DERIVATIVE OR EXTRACT OF CANNABIS**

[54] **COMPOSITIONS COMPRENANT UN CONSTITUANT, UN DERIVE OU UN EXTRAIT DE CANNABIS**

[72] ALDERMAN, STEVEN L, US

[72] POOLE, THOMAS, US

[72] TALUSKIE, KAREN, US

[72] WILBERDING, KATHRYN L, US

[72] HAWKE, JENNI, GB

[72] DAVIES, ASHLEY, GB

[72] DANIEL, MICHAEL S, US

[72] TANG, KAI, US

[72] XU, KEYI, US

[72] MCQUILLAN, KARINA, GB

[72] CARAWAY, JOHN, US

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2024-01-12

[86] 2022-07-21 (PCT/GB2022/051903)

[87] (WO2023/002197)

[30] US (63/224,589) 2021-07-22

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[21] <b>3,225,830</b> [13] A1	[21] <b>3,225,831</b> [13] A1	[21] <b>3,225,833</b> [13] A1
[51] <b>Int.Cl. C12N 9/34 (2006.01) C07K 14/335 (2006.01) C07K 14/395 (2006.01) C12P 7/06 (2006.01)</b>	[51] <b>Int.Cl. A24B 13/00 (2006.01) A24B 15/16 (2020.01) A61K 9/00 (2006.01) A61K 9/70 (2006.01)</b>	[51] <b>Int.Cl. G02B 21/00 (2006.01) G02B 26/12 (2006.01) G02B 27/58 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>STRAINS OF SACCHAROMYCES CEREVISIAE THAT EXHIBIT AN INCREASED ABILITY TO FERMENT OLIGOSACCHARIDES INTO ETHANOL WITHOUT SUPPLEMENTAL GLUCOAMYLASE AND METHODS OF MAKING AND USING THE SAM</b>	[54] <b>COMPOSITIONS COMPRISING A CONSTITUENT, DERIVATIVE OR EXTRACT OF CANNABIS</b>	[54] <b>OPTICAL SCAN MULTIPLIER AND USES THEREOF</b>
[54] <b>SOUCHES DE SACCHAROMYCES CEREVISIAE PRESENTANT UNE CAPACITE ACCRUE A FERMENTER DES OLIGOSACCHARIDES EN ETHANOL SANS GLUCOAMYLASE SUPPLEMENTAIRE ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION</b>	[54] <b>COMPOSITIONS COMPRENANT UN CONSTITUANT, UN DERIVE OU UN EXTRAIT DE CANNABIS</b>	[54] <b>MULTIPLICATEUR DE BALAYAGE OPTIQUE ET SES UTILISATIONS</b>
[72] HEYEN, JOSHUA W., US	[72] ALDERMAN, STEVEN L, US	[72] XIAO, SHENG, US
[72] PALANIAPPAN, NADARAJ, US	[72] TALUSKIE, KAREN, US	[72] MERTZ, JEROME CHARLES, US
[72] HOUIN, KATHRYN A., US	[72] WILBERDING, KATHRYN L, US	[71] TRUSTEES OF BOSTON UNIVERSITY, US
[72] COCKLIN, ROSS, US	[72] HAWKE, JENNI, GB	[85] 2024-01-12
[72] GOEBL, MARK G., US	[72] DAVIES, ASHLEY, GB	[86] 2022-07-14 (PCT/US2022/037125)
[71] XYLOGENICS, INC., US	[72] POOLE, THOMAS H, US	[87] (WO2023/287978)
[85] 2024-01-12	[72] DANIEL, MICHAEL S, US	[30] US (63/222,031) 2021-07-15
[86] 2022-07-12 (PCT/US2022/073659)	[72] TANG, KAI, US	
[87] (WO2023/288234)	[72] XU, KEYI, US	[21] <b>3,225,834</b> [13] A1
[30] US (63/220,930) 2021-07-12	[72] MCQUILLAN, KARINA, GB	[51] <b>Int.Cl. C12N 5/0735 (2010.01) C12N 5/079 (2010.01)</b>
	[72] CARAWAY, JOHN, US	[25] EN
	[71] NICOVENTURES TRADING LIMITED, GB	[54] <b>EXPANSION OF RETINAL PIGMENT EPITHELIUM CELLS</b>
	[85] 2024-01-12	[54] <b>MULTIPLICATION DE CELLULES DE L'EPITHELIUM PIGMENTAIRE RETINIEN</b>
	[86] 2022-07-21 (PCT/GB2022/051904)	[72] TIKOTZKI, RAVID, US
	[87] (WO2023/002198)	[72] HAYOUN NEEMAN, DANA, US
	[30] US (63/224,584) 2021-07-22	[72] WISER, OFER, US
		[72] ALON, LILACH, US
	[21] <b>3,225,832</b> [13] A1	[71] LINEAGE CELL THERAPEUTICS, INC., US
	[51] <b>Int.Cl. A24B 15/16 (2020.01) A24D 1/20 (2020.01) A24B 15/30 (2006.01) A24D 1/18 (2006.01)</b>	[85] 2024-01-12
	[25] EN	[86] 2022-07-27 (PCT/US2022/038594)
	[54] <b>AEROSOL GENERATING COMPOSITIONS</b>	[87] (WO2023/009676)
	[54] <b>COMPOSITIONS DE GENERATION D'AEROSOL</b>	[30] US (63/226,741) 2021-07-28
	[72] ABI AOUN, WALID, GB	
	[72] STROPHAIR, ORIOL, GB	
	[71] NICOVENTURES TRADING LIMITED, GB	
	[85] 2024-01-12	
	[86] 2022-07-21 (PCT/GB2022/051899)	
	[87] (WO2023/002193)	
	[30] GB (2110554.9) 2021-07-22	

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[21] **3,225,835**  
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01) H04W 12/06 (2021.01) G06Q 20/30 (2012.01) H04W 12/47 (2021.01) H04W 12/63 (2021.01) H04W 4/14 (2009.01)**

[25] EN

[54] **SYSTEM AND METHOD TO PERFORM DIGITAL AUTHENTICATION USING MULTIPLE CHANNELS OF COMMUNICATION**

[54] **SYSTEME ET PROCEDE POUR EFFECTUER UNE AUTHENTICATION NUMERIQUE A L'AIDE DE MULTIPLES CANAUX DE COMMUNICATION**

[72] BOWERS, JUSTIN ANTHONY, US  
[72] ASHFIELD, JAMES, US  
[72] HENG, MELISSA, US  
[71] CAPITAL ONE SERVICES, LLC, US  
[85] 2024-01-12  
[86] 2022-06-09 (PCT/US2022/032762)  
[87] (WO2023/003649)  
[30] US (17/379,537) 2021-07-19

[21] **3,225,836**  
[13] A1

[51] **Int.Cl. G06F 7/57 (2006.01) G06F 9/302 (2018.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR ENERGY-EFFICIENT AND ACCELERATED PROCESSING OF AN ARITHMETIC OPERATION**

[54] **APPAREIL ET PROCEDE POUR LE TRAITEMENT ECONOMIQUE EN ENERGIE ET ACCELERER D'UNE OPERATION ARITHMETIQUE**

[72] DUMESNIL, ETIENNE, CA  
[72] JULIEN, MAXIME, CA  
[71] SOLID STATE OF MIND, CA  
[85] 2024-01-12  
[86] 2022-07-22 (PCT/CA2022/051140)  
[87] (WO2023/000110)  
[30] US (63/225,134) 2021-07-23

[21] **3,225,837**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 9/16 (2006.01) A61K 31/165 (2006.01) A61P 19/02 (2006.01) A61P 19/06 (2006.01)**

[25] EN

[54] **DOSAGE FORM FOR INTRA-ARTICULAR INJECTION COMPRISING COLCHICINE FOR USE IN THE TREATMENT OF CRYSTAL-AND NON-CRYSTAL ASSOCIATED ACUTE INFLAMMATORY ARTHRITIS**

[54] **FORME POSOLOGIQUE POUR INJECTION INTRA-ARTICULAIRE COMPRENANT DE LA COLCHICINE POUR UTILISATION DANS LE TRAITEMENT DE L'ARTHRITE INFLAMMATOIRE CRISTALLINE ET NON CRISTALLINE AIGUE**

[72] SANSON, CHARLES, FR  
[72] HAYOZ, DANIEL, FR  
[72] EA, HANG-KORNG, FR  
[72] POULIQUEN, GAUTHIER, FR  
[71] PK MED, FR  
[85] 2024-01-12  
[86] 2022-07-12 (PCT/EP2022/069416)  
[87] (WO2023/001627)  
[30] EP (21306016.3) 2021-07-19

[21] **3,225,838**  
[13] A1

[51] **Int.Cl. G01N 33/00 (2006.01)**

[25] EN

[54] **APPARATUS FOR PERFORMING SENSOR CALIBRATIONS AND BUMP TESTS**

[54] **APPAREIL POUR REALISER DES ETALONNAGES DE CAPTEURS ET DES BUMP TESTS**

[72] XU, MIAO, US  
[72] PENG, WENFENG, US  
[72] AFENZER, AMRAM NETANEL, US  
[72] ZAPPA, BRIAN, US  
[71] MOLEX, LLC, US  
[85] 2024-01-12  
[86] 2022-07-15 (PCT/IB2022/056543)  
[87] (WO2023/002322)  
[30] US (63/223,091) 2021-07-19

[21] **3,225,839**  
[13] A1

[51] **Int.Cl. B23B 5/12 (2006.01)**

[25] EN

[54] **TOOL**

[54] **OUTIL**

[72] FEILE, THOMAS, DE  
[72] SUCHANOW, ALEXANDER, DE  
[72] CZAPKA, MARTIN, DE  
[71] MAPAL FABRIK FUR PRAZISIONSWERKZEUGE DR. KRESS KG, DE  
[85] 2024-01-12  
[86] 2022-07-18 (PCT/EP2022/070080)  
[87] (WO2023/001771)  
[30] DE (10 2021 207 764.1) 2021-07-20

[21] **3,225,840**  
[13] A1

[51] **Int.Cl. G06F 16/2458 (2019.01)**

[25] EN

[54] **VIRTUAL WAREHOUSE QUERY MONITORING, DYNAMIC QUERY ALLOCATION, AND QUERY ALERTS GENERATION**

[54] **SURVEILLANCE DE REQUETE D'ENTREPOT VIRTUEL, ATTRIBUTION DE REQUETE DYNAMIQUE ET GENERATION D'ALERTE DE REQUETE**

[72] KANDUKURI, PRAVEEN, US  
[72] SALIM, SYED, US  
[72] HARDATT, KARAMCHANDRADATT, US  
[72] GURRAM, NAGENDER, US  
[72] BHARATHAN, GANESH, US  
[72] BATRA, YUDHISH, US  
[71] CAPITAL ONE SERVICES, LLC, US  
[85] 2024-01-12  
[86] 2022-07-11 (PCT/US2022/036658)  
[87] (WO2023/287692)  
[30] US (17/374,325) 2021-07-13  
[30] US (17/374,461) 2021-07-13  
[30] US (17/374,479) 2021-07-13

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[21] **3,225,841**  
[13] A1

[51] **Int.Cl. G10L 19/09 (2013.01) G10L 19/18 (2013.01)**  
[25] EN  
[54] **PROCESSOR FOR GENERATING A PREDICTION SPECTRUM BASED ON LONG-TERM PREDICTION AND/OR HARMONIC POST-FILTERING**  
[54] **PROCESSEUR POUR GENERER UN SPECTRE DE PREDICTION SUR LA BASE D'UNE PREDICTION A LONG TERME ET/OU D'UN POST-FILTRAGE D'HARMONIQUES**  
[72] MARKOVIC, GORAN, DE  
[72] EDLER, BERND, DE  
[72] BAYER, STEFAN, DE  
[72] KIENE, JAN FREDERIK, DE  
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[85] 2024-01-12  
[86] 2022-07-14 (PCT/EP2022/069751)  
[87] (WO2023/285600)  
[30] EP (21185662.0) 2021-07-14

[21] **3,225,842**  
[13] A1

[51] **Int.Cl. F24F 11/65 (2018.01) F24F 11/70 (2018.01) F24F 8/22 (2021.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR AIR SANITIZATION**  
[54] **SYSTEME ET PROCEDE DE DESINFECTION DE L'AIR**  
[72] DAVIS, PETE, US  
[72] MCNERNEY, GERALD J., US  
[72] ANOSZKO, THOMAS, US  
[72] BRANDT, JOSEPH, US  
[71] RESEARCH PRODUCTS CORPORATION, US  
[85] 2024-01-12  
[86] 2022-07-14 (PCT/US2022/037184)  
[87] (WO2023/288009)  
[30] US (63/222,833) 2021-07-16

[21] **3,225,843**  
[13] A1

[51] **Int.Cl. G10L 19/02 (2013.01) G10L 19/028 (2013.01) G10L 19/032 (2013.01) G10L 21/038 (2013.01)**  
[25] EN  
[54] **INTEGRAL BAND-WISE PARAMETRIC AUDIO CODING**  
[54] **CODAGE AUDIO PARAMETRIQUE PAR BANDE INTEGRALE**  
[72] MARKOVIC, GORAN, DE  
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[85] 2024-01-12  
[86] 2022-07-14 (PCT/EP2022/069811)  
[87] (WO2023/285630)  
[30] EP (21185666.1) 2021-07-14

[21] **3,225,844**  
[13] A1

[51] **Int.Cl. G08B 13/06 (2006.01) A47F 10/02 (2006.01) E05C 19/16 (2006.01) G08B 13/08 (2006.01)**  
[25] EN  
[54] **SECURITY LOCKDOWN DEVICE AND METHOD**  
[54] **DISPOSITIF ET PROCEDE DE VERROUILLAGE DE SECURITE**  
[72] MARSZALEK, CHRISTOPHER ALAN, US  
[72] LIFF, DALE R., US  
[72] REYNOLDS, ANDY, US  
[72] HORVATH, DANIEL L., US  
[72] HEFLING, DAVID, US  
[71] SENNCO SOLUTIONS INC., US  
[85] 2024-01-15  
[86] 2022-08-10 (PCT/US2022/039938)  
[87] (WO2023/018786)  
[30] US (17/400,305) 2021-08-12

[21] **3,225,850**  
[13] A1

[51] **Int.Cl. C09K 17/18 (2006.01) A01G 24/35 (2018.01) C05G 3/50 (2020.01) C05G 3/70 (2020.01) C05G 3/80 (2020.01)**  
[25] EN  
[54] **AGRICULTURAL APPLICATIONS OF FATTY ACID REACTION PRODUCTS OF DEXTRINS OR DEXTRAN**  
[54] **APPLICATIONS AGRICOLES DE PRODUITS D'UNE REACTION AVEC UN ACIDE GRAS DE DEXTRINES OU DE DEXTRANE**  
[72] GARDNER, CHRISTOPHER P., US  
[72] ALMOND, STEPHEN WILLIAM, US  
[71] INTEGRITY BIO-CHEMICALS, LLC, US  
[85] 2024-01-15  
[86] 2022-08-18 (PCT/US2022/075107)  
[87] (WO2023/023574)  
[30] US (63/234,311) 2021-08-18

[21] **3,225,854**  
[13] A1

[51] **Int.Cl. B29C 45/13 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD OF MOLDING A HOLLOW ARTICLE**  
[54] **SYSTEME ET PROCEDE DE MOULAGE DE CORPS CREUX**  
[72] SADR, CHANGIZE, CA  
[71] MARKDOM INTERNATIONAL INC., CA  
[85] 2024-01-15  
[86] 2022-07-19 (PCT/CA2022/051118)  
[87] (WO2023/000091)  
[30] US (63/203,381) 2021-07-20

[21] **3,225,856**  
[13] A1

[51] **Int.Cl. G01V 1/00 (2024.01) G01V 1/30 (2006.01)**  
[25] EN  
[54] **SYNTHETIC SUBTERRANEAN SOURCE**  
[54] **SOURCE SOUTERRAINE SYNTHETIQUE**  
[72] ZHAO, ALLEN RICHARD, US  
[72] PRINDLE, KENTON LEE, US  
[72] SMITH, KEVIN FORSYTHE, US  
[72] GONCHARUK, ARTEM, US  
[71] X DEVELOPMENT LLC, US  
[85] 2024-01-15  
[86] 2022-07-11 (PCT/US2022/036644)  
[87] (WO2023/287685)  
[30] US (17/374,320) 2021-07-13

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[21] **3,225,863**  
[13] A1

[51] **Int.Cl. F25J 1/02 (2006.01)**  
[25] EN  
[54] **SOLVENT INJECTION FOR SOLIDS PREVENTION IN AN LNG PLANT**  
[54] **INJECTION DE SOLVANT POUR LA PREVENTION DE SOLIDES DANS UNE INSTALLATION DE GNL**  
[72] EMBRY, DALE, US  
[72] QUALLS, WESLEY R., US  
[71] CONOCOPHILLIPS COMPANY, US  
[85] 2024-01-15  
[86] 2022-07-18 (PCT/US2022/037498)  
[87] (WO2023/288137)  
[30] US (63/222,743) 2021-07-16

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[21] **3,225,864**  
[13] A1

[51] **Int.Cl. B29C 64/264 (2017.01) B33Y 50/02 (2015.01) B29C 64/124 (2017.01) B29C 64/232 (2017.01) B29C 64/236 (2017.01) B29C 64/255 (2017.01) B29C 64/291 (2017.01) B29C 64/393 (2017.01)**  
[25] EN  
[54] **CALIBRATION SYSTEMS AND METHODS FOR ADDITIVE MANUFACTURING SYSTEMS WITH MULTIPLE IMAGE PROJECTION**  
[54] **SYSTEMES ET PROCEDES D'ETALONNAGE POUR SYSTEMES DE FABRICATION ADDITIVE PRESENTANT DE MULTIPLES PROJECTIONS D'IMAGES**  
[72] WYNNE, BEN, US  
[72] CHOUSAL, IVAN DEJESUS, US  
[72] TANNER, CHRISTOPHER SEAN, US  
[72] MUELLER, ROBERT LEE, US  
[72] PINGEL, JAMES MICHAEL, US  
[71] INTREPID AUTOMATION, INC., US  
[85] 2024-01-15  
[86] 2022-07-27 (PCT/IB2022/056959)  
[87] (WO2023/007405)  
[30] US (63/203,752) 2021-07-29  
[30] US (17/661,856) 2022-05-03

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[21] **3,225,868**  
[13] A1

[51] **Int.Cl. B65D 30/06 (2006.01)**  
[25] EN  
[54] **HOME COMPOSTABLE LABEL**  
[54] **ETIQUETTE COMPOSTABLE DOMESTIQUE**  
[72] CHEN, WEN-LI A., US  
[72] HOWARTH, M. SCOTT, US  
[71] SINCLAIR SYSTEMS INTERNATIONAL, LLC, US  
[85] 2024-01-15  
[86] 2022-08-12 (PCT/US2022/040156)  
[87] (WO2023/018932)  
[30] US (63/232,875) 2021-08-13

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[21] **3,225,871**  
[13] A1

[25] FR  
[54] **SEPARATION DEVICE COMPRISING A DAMPING ELEMENT**  
[54] **DISPOSITIF DE SEPARATION COMPRENANT UN ELEMENT D'AMORTISSEMENT**  
[72] HAGUENAUER, BERTRAND, FR  
[72] PEREZ, SEBASTIEN, FR  
[72] LAMONTAGNE, CHRISTOPHE, FR  
[72] GIBAUD, ERIC, FR  
[71] PYROALLIANCE, FR  
[85] 2024-01-15  
[86] 2022-07-11 (PCT/FR2022/051395)  
[87] (WO2023/285761)  
[30] FR (FR2107692) 2021-07-16

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[21] **3,225,873**  
[13] A1

[25] EN  
[54] **COOKING ASSEMBLY FOR A MICROWAVE OVEN**  
[54] **ENSEMBLE DE CUISSON POUR FOUR A MICRO-ONDES**  
[72] GE, LIN, CN  
[72] HU, JIANAN, CN  
[72] LI, XIN, CN  
[72] WU, PING, CN  
[72] TONG, JINGJING, CN  
[71] WHIRLPOOL CORPORATION, US  
[85] 2024-01-15  
[86] 2021-04-13 (PCT/CN2021/086944)  
[87] (WO2022/217455)

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[21] **3,225,877**  
[13] A1

[51] **Int.Cl. C04B 20/02 (2006.01)**  
[25] FR  
[54] **ACCELERATED CARBONATION PROCESS AND IMPLEMENTATION THEREOF IN A PROCESS FOR UPCYCLING CONCRETE WASTE AND INDUSTRIAL WASTE GASES**  
[54] **PROCEDE DE CARBONATATION ACCELEREE ET SA MISE EN OEUVRE DANS UN PROCEDE DE VALORISATION DE DECHETS DE BETON ET DE REJETS GAZEUX INDUSTRIELS**  
[72] POILLOT, JULIEN, FR  
[72] JACOB, YVAN-PIERRE, FR  
[72] GUILLEMIN, HERVE, FR  
[72] ZELLAGUI, SAMI, FR  
[72] CORDONNIER, ALAIN, FR  
[71] VICAT, FR  
[71] FIVES FCB, FR  
[85] 2024-01-15  
[86] 2022-08-01 (PCT/FR2022/051534)  
[87] (WO2023/012424)  
[30] FR (FR21/08401) 2021-08-02

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[21] **3,225,880**  
[13] A1

[51] **Int.Cl. A23L 7/10 (2016.01)**  
[25] EN  
[54] **OAT-BASED DISPERSIONS, FOOD PRODUCTS, AND PROCESSES FOR MAKING THE SAME**  
[54] **DISPERSIONS A BASE D'AVOINE, PRODUITS ALIMENTAIRES ET LEURS PROCEDES DE FABRICATION**  
[72] NURMI, NIKO, FI  
[72] ROMMI, KATARIINA, FI  
[72] LOPONEN, JUSSI, FI  
[71] OY KARL FAZER AB, FI  
[85] 2024-01-15  
[86] 2022-08-16 (PCT/FI2022/050531)  
[87] (WO2023/021240)  
[30] FI (20215860) 2021-08-16



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[21] **3,225,882**  
[13] A1

[51] **Int.Cl. F16G 3/02 (2006.01)**  
[25] EN  
[54] **CONNECTION ELEMENT FOR CONNECTING BELT ENDS, AND BELT CONNECTION**  
[54] **ELEMENT D'ASSEMBLAGE POUR ASSEMBLER DES EXTREMITES DE COURROIE ET ASSEMBLAGE DE COURROIES**  
[72] ARNDT, DOMINIK, DE  
[72] HAPPE, MARTIN, DE  
[71] SIT ANTRIEBSELEMENTE GMBH, DE  
[85] 2024-01-15  
[86] 2022-07-08 (PCT/DE2022/100491)  
[87] (WO2023/284914)  
[30] DE (10 2021 118 487.8) 2021-07-16

[21] **3,225,883**  
[13] A1

[51] **Int.Cl. A61B 5/37 (2021.01) A61B 5/27 (2021.01) H10K 85/10 (2023.01)**  
[25] EN  
[54] **ORGANIC SEMICONDUCTOR NANOTUBES FOR ELECTROCHEMICAL BIOELECTRONICS AND BIOSENSORS WITH TUNABLE DYNAMICS**  
[54] **NANOTUBES SEMI-CONDUCTEURS ORGANIQUES POUR BIOELECTRONIQUE ELECTROCHIMIQUE ET BIOCAPTEURS A DYNAMIQUE ACCORDABLE**  
[72] ABIDIAN, MOHAMMAD REZA, US  
[72] ESLAMIAN, MOHAMMADJAVAD, US  
[72] MAJD, SHEEREN, US  
[71] UNIVERSITY OF HOUSTON SYSTEM, US  
[85] 2024-01-15  
[86] 2022-07-15 (PCT/US2022/073773)  
[87] (WO2023/229656)  
[30] US (63/222,915) 2021-07-16

[21] **3,225,885**  
[13] A1

[51] **Int.Cl. A61P 31/22 (2006.01)**  
[25] EN  
[54] **VACCINE FOR EQUINE HERPESVIRUS**  
[54] **VACCIN CONTRE L'HERPESVIRUS EQUIN**  
[72] REEMERS, SYLVIA, NL  
[72] VAN DE ZANDE, SASKIA, NL  
[71] INTERVET INTERNATIONAL B.V., NL  
[85] 2024-01-15  
[86] 2022-08-05 (PCT/EP2022/072079)  
[87] (WO2023/012331)  
[30] EP (21190028.7) 2021-08-06

[21] **3,225,886**  
[13] A1

[51] **Int.Cl. A61N 2/06 (2006.01)**  
[25] EN  
[54] **MAGNETIC BIO-THERAPY DEVICE AND METHOD**  
[54] **DISPOSITIF ET PROCEDE DE BIOTHERAPIE MAGNETIQUE**  
[72] RAFAEL OLIVEROS MAITA, ENIOS, US  
[71] SPSCANCO, LLC, US  
[85] 2023-12-28  
[86] 2022-06-30 (PCT/US2022/073274)  
[87] (WO2023/279035)  
[30] US (63/216,692) 2021-06-30

[21] **3,225,887**  
[13] A1

[51] **Int.Cl. A23L 7/10 (2016.01)**  
[25] EN  
[54] **METHODOLOGY FOR OBTAINING ROLLABLE AND SHELF STABLE PURE MILLET FLOUR**  
[54] **METHODOLOGIE D'OBTENTION DE FARINE DE MILLET PURE POUVANT ETRE ROULEE ET A LONGUE DUREE DE CONSERVATION**  
[72] RAMASAMY, URMILA, IN  
[72] NARASIMHACHARY, SHASHIKALA MADAKASIRA, IN  
[72] GAUR, VIVEK, IN  
[72] GUPTA, VIKAS, IN  
[72] GHASIS, NAMRATA, IN  
[72] MALLESHI, NAGAPPA, IN  
[71] TATA CONSUMER PRODUCTS LIMITED, IN  
[85] 2024-01-15  
[86] 2023-04-27 (PCT/IN2023/050415)  
[87] (WO2023/228200)  
[30] IN (202231030578) 2022-05-27

[21] **3,225,888**  
[13] A1

[51] **Int.Cl. G06N 10/60 (2022.01) G06N 10/20 (2022.01)**  
[25] EN  
[54] **METHOD FOR ESTIMATING A VALUE OF AN OBSERVABLE QUANTITY OF A STATE OF A QUANTUM MANY-BODY SYSTEM AND APPARATUS FOR CARRYING OUT SAID METHOD**  
[54] **PROCEDE D'ESTIMATION DE VALEUR DE GRANDEUR OBSERVABLE D'UN ETAT DE SYSTEME A PLUSIEURS CORPS QUANTIQUES ET APPAREIL POUR LA MISE EN ŒUVRE DE CE PROCEDE**  
[72] GARCIA PEREZ, GUILLERMO, FI  
[72] MANISCALCO, SABRINA, FI  
[72] ROSSI, MATTEO, FI  
[72] SOKOLOV, BORIS, FI  
[71] ALGORITHMIQ OY, FI  
[85] 2024-01-15  
[86] 2022-08-02 (PCT/EP2022/071715)  
[87] (WO2023/012167)  
[30] EP (21189425.8) 2021-08-03

[21] **3,225,894**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/444 (2006.01)**  
[25] EN  
[54] **AAK1 INHIBITOR AND USE THEREOF**  
[54] **INHIBITEUR D'AAK1 ET SON UTILISATION**  
[72] LI, YAO, CN  
[72] WANG, WENJING, CN  
[72] SHI, ZONGJUN, CN  
[72] ZHANG, HAOLIANG, CN  
[72] DU, CHENGLONG, CN  
[72] CHENG, FENGKAI, CN  
[72] LIU, XIN, CN  
[72] ZHANG, XIAOZHUAN, CN  
[72] WANG, LONG, CN  
[72] TANG, PINGMING, CN  
[72] YU, YAN, CN  
[72] ZHANG, CHEN, CN  
[72] YAN, PANGKE, CN  
[71] XIZANG HAISCO PHARMACEUTICAL CO. LTD., CN  
[85] 2024-01-15  
[86] 2022-07-14 (PCT/CN2022/105793)  
[87] (WO2023/284838)  
[30] CN (202110801701.5) 2021-07-15  
[30] CN (202111105950.7) 2021-09-22  
[30] CN (202111324545.4) 2021-11-10  
[30] CN (202111465224.6) 2021-12-03

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[21] **3,225,902**  
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) A61P 25/28 (2006.01) A61P 37/06 (2006.01) C40B 40/10 (2006.01)**

[25] EN

[54] **HOMOLOGOUS DIMERIZATION PEPTIDES AND ANTIBODIES COMPRISING THE SAME**

[54] **PEPTIDES DE DIMERISATION HOMOLOGUES ET ANTICORPS LES COMPRENANT**

[72] MORGAN, ALTON C., CA

[71] PXRADIA MAB TECHNOLOGIES INC., CA

[85] 2024-01-15

[86] 2022-07-13 (PCT/CA2022/051093)

[87] (WO2023/283736)

[30] US (63/221,686) 2021-07-14

[21] **3,225,906**  
[13] A1

[51] **Int.Cl. A61L 2/07 (2006.01) B65B 55/06 (2006.01)**

[25] EN

[54] **METHOD OF DOSING STERILE SYRINGES AND DEVICE FOR USE WITH SAID METHOD**

[54] **PROCEDE DE DOSAGE DE SERINGUES STERILES ET DISPOSITIF DESTINE A ETRE UTILISE AVEC LEDIT PROCEDE**

[72] BOIRA BONHORA, JORDI, ES

[72] GARCIA SANCHEZ, MANUEL, ES

[71] GRIFOLS ENGINEERING, S.A., ES

[85] 2024-01-15

[86] 2022-07-18 (PCT/ES2022/070465)

[87] (WO2023/002078)

[30] EP (21382654.8) 2021-07-19

[21] **3,225,909**  
[13] A1

[51] **Int.Cl. C22C 23/06 (2006.01)**

[25] EN

[54] **IMPROVED CASTABLE MAGNESIUM ALLOY**

[54] **ALLIAGE DE MAGNESIUM COULABLE AMELIORE**

[72] MURPHY, MATTHEW, GB

[72] LYON, PAUL, GB

[72] SYED, ISMET, GB

[72] HORAN, GABRIELLA, GB

[71] MAGNESIUM ELEKTRON LIMITED, GB

[85] 2024-01-15

[86] 2022-08-12 (PCT/GB2022/052109)

[87] (WO2023/017280)

[30] GB (2111588.6) 2021-08-12

[21] **3,225,905**  
[13] A1

[51] **Int.Cl. G07F 11/42 (2006.01) G07F 11/44 (2006.01)**

[25] EN

[54] **METHOD FOR STEP DISPENSING DISCRETE MEDICAMENTS FROM A DISPENSING SYSTEM, AND METHOD FOR CONTROLLING OPERATION OF A SYSTEM**

[54] **PROCEDE DE DISTRIBUTION PAR ETAPES DE MEDICAMENTS DISTINCTS A PARTIR D'UN SYSTEME DE DISTRIBUTION ET PROCEDE DE COMMANDE DU FONCTIONNEMENT D'UN SYSTEME**

[72] BRAKKEE, MARTINUS JOHANNES DONATUS, NL

[72] VAN ROON, PETER, NL

[72] VAN VOORN, PATRICK, NL

[71] VMI HOLLAND B.V., NL

[85] 2024-01-15

[86] 2022-07-29 (PCT/EP2022/071447)

[87] (WO2023/006998)

[30] NL (2028895) 2021-07-30

[21] **3,225,907**  
[13] A1

[25] EN

[54] **POLYNUCLEOTIDES AND USES THEREOF**

[54] **POLYNUCLEOTIDES ET LEURS UTILISATIONS**

[72] KHURANA, JASPREET S., US

[72] SHAH, AALOK, US

[72] KITADA, TASUKU, US

[71] STRAND THERAPEUTICS INC., US

[85] 2024-01-15

[86] 2022-08-03 (PCT/US2022/074491)

[87] (WO2023/015221)

[30] US (63/228,892) 2021-08-03

[21] **3,225,908**  
[13] A1

[51] **Int.Cl. A61P 13/12 (2006.01) A61P 37/06 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **TREATMENT OF ANTI-PLA2R AUTOANTIBODY-MEDIATED MEMBRANOUS NEPHROPATHY**

[54] **TRAITEMENT DE LA NEPHROPATHIE MEMBRANEUSE MEDIEE PAR AUTO-ANTICORPS ANTI-PLA2R**

[72] HARTLE, STEFAN, DE

[72] BAUMGARTNER, ROLAND, DE

[71] MORPHOSYS AG, DE

[85] 2024-01-15

[86] 2022-07-19 (PCT/EP2022/070162)

[87] (WO2023/001804)

[30] EP (21186299.0) 2021-07-19

[30] EP (21203870.7) 2021-10-21

[21] **3,225,910**  
[13] A1

[51] **Int.Cl. A61K 35/14 (2015.01) A61K 35/28 (2015.01) A61P 19/02 (2006.01) A61K 35/12 (2015.01)**

[25] EN

[54] **MESENCHYMAL STEM CELLS FOR USE IN THE TREATMENT OF OSTEOARTHRITIS IN ANIMALS**

[54] **CELLULES SOUCHES MESENCHYMATEUSES DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DE L'ARTHROSE CHEZ DES ANIMAUX**

[72] SPAAS, JAN, BE

[72] BROECKX, SARAH, BE

[72] PAUWELYN, GLENN, BE

[72] BEERTS, CHARLOTTE, BE

[71] BOEHRINGER INGELHEIM VETERINARY MEDICINE BELGIUM, BE

[85] 2023-12-29

[86] 2022-07-05 (PCT/EP2022/068549)

[87] (WO2023/280832)

[30] EP (21184474.1) 2021-07-08

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[21] **3,225,911**  
[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01)**  
[25] EN  
[54] **NON-COMBUSTIBLE AEROSOL PROVISION SYSTEMS WITH ATOMIZER-FREE CONSUMABLES**

[54] **SYSTEMES DE FOURNITURE D'AEROSOL NON COMBUSTIBLES COMPRENANT DES CONSOMMABLES SANS ATOMISEUR**

[72] JOHNSON, ZACHARY, US  
[72] SHORT, JASON M., US  
[72] NOVAK, CHARLES JACOB, US  
[72] LETFULLINA, ALLA, US  
[72] FERGUSON, ROYCE, US  
[72] XIAO, MIKE, US  
[72] HAINES, RICHARD, US  
[72] BURCHMAN, ZACHARY, US  
[72] MCKEON, TOM, US  
[72] NETTENSTROM, MATTHEW, US  
[72] SCHENNUM, STEVE, US  
[72] BAILEY, PATRICK, US  
[72] ROOT, T.J., US  
[72] GATTI, BENJAMIN, US  
[72] LOSAW, JEREMY, US  
[72] MCNEIL, RAESHON, US  
[71] RAI STRATEGIC HOLDINGS INC, US

[85] 2024-01-15  
[86] 2022-07-14 (PCT/IB2022/056510)  
[87] (WO2023/286013)  
[30] US (63/222,267) 2021-07-15

[21] **3,225,912**  
[13] A1

[51] **Int.Cl. A61K 47/69 (2017.01)**  
[25] EN  
[54] **COMPOSITION AND USE OF SIRNAS AGAINST VEGFR2 AND TGF-BETA1 IN COMBINATION THERAPY FOR CANCER**

[54] **COMPOSITION ET UTILISATION D'ARNSI CONTRE VEGFR2 ET TGF-BETA-1 EN POLYTHERAPIE CONTRE LE CANCER**

[72] XU, JOHN, US  
[72] WANG, ZHIYUAN, US  
[72] WANG, DELING, US  
[72] LU, PATRICK, US  
[72] JIA, WANYING, US  
[72] ZHANG, JIN, US  
[72] ZHU, XUDONG, US  
[72] ZHANG, JINGMING, US  
[71] SIMAOMICS, INC., US

[85] 2024-01-15  
[86] 2022-07-18 (PCT/US2022/037519)  
[87] (WO2023/288141)  
[30] CN (202110806912.8) 2021-07-16  
[30] US (63/222,418) 2021-07-16

[21] **3,225,913**  
[13] A1

[51] **Int.Cl. G06Q 50/10 (2012.01)**  
[25] EN  
[54] **SYSTEM FOR MANAGING DIGITAL SERVICES**

[54] **SYSTEME POUR LA GESTION DE SERVICES NUMERIQUES**

[72] JUNCEDA MORENO, ELADIO FRANCISCO, ES  
[71] ARPPA TECHNOLOGIES, S.L., ES

[85] 2024-01-15  
[86] 2022-07-13 (PCT/ES2022/070454)  
[87] (WO2023/285723)  
[30] ES (P202130659) 2021-07-13

[21] **3,225,914**  
[13] A1

[51] **Int.Cl. A01H 5/00 (2018.01) A01N 63/60 (2020.01) A01H 1/00 (2006.01) A01P 21/00 (2006.01) C12N 9/22 (2006.01) C12N 15/10 (2006.01) C12N 15/55 (2006.01) C12N 15/82 (2006.01)**

[25] EN  
[54] **METHODS OF INCREASING PLANT PRODUCTIVITY AND TOLERANCE TO WATER & NUTRIENT DEFICIENCY**

[54] **PROCEDES POUR AMELIORER LA PRODUCTIVITE, LA TOLERANCE A L'EAU ET LA CARENCE EN NUTRIMENTS DE PLANTES**

[72] WAN, JIANGXIN, CA  
[72] YANG, SHUJUN, CA  
[72] JOSLIN, KATE, CA  
[72] TANG, XURONG, CA  
[72] TIAN, GANG, CA  
[72] HUANG, YAFAN, CA  
[71] PERFORMANCE PLANTS INC., CA

[85] 2024-01-15  
[86] 2022-07-13 (PCT/CA2022/051091)  
[87] (WO2023/035057)  
[30] US (63/222,193) 2021-07-15

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[21] <b>3,225,916</b> [13] A1	[21] <b>3,225,917</b> [13] A1	[21] <b>3,225,919</b> [13] A1
<p>[51] <b>Int.Cl. A23C 21/00 (2006.01) A23L 33/00 (2016.01) A23L 33/19 (2016.01) A23J 1/20 (2006.01) A61K 35/20 (2006.01) A61K 38/00 (2006.01) A61K 38/17 (2006.01) A61K 38/19 (2006.01) C07K 14/52 (2006.01) C07K 14/78 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHOD OF PREPARING A WHEY-DERIVED COMPOSITION ENRICHED IN PHOSPHOLIPIDS AND OSTEOPOINTIN, THE COMPOSITION AS SUCH, AND NUTRITIONAL USE OF THE COMPOSITION</b></p> <p>[54] <b>PROCEDE DE PREPARATION D'UNE COMPOSITION DERIVEE DE LACTOSERUM ENRICHEE EN PHOSPHOLIPIDES ET EN OSTEOPOINTINE, COMPOSITION EN TANT QUE TELLE ET UTILISATION NUTRITIONNELLE DE LA COMPOSITIO</b></p> <p>[72] BERTELSEN, HANS, DK [72] DRACHMANN, NIKOLAJ, DK [72] KVISTGAARD, ANNE STAUDT, DK [72] POULSEN, KRISTIAN RAABY, DK [72] VOSYLE, DONATA, DK [71] ARLA FOODS AMBA, DK [85] 2024-01-15 [86] 2022-07-18 (PCT/EP2022/070106) [87] (WO2023/001782) [30] EP (21186653.8) 2021-07-20</p>	<p>[51] <b>Int.Cl. A61K 31/52 (2006.01) A61P 1/16 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PHARMACEUTICAL COMPOSITION INCLUDING ADENOSINE DERIVATIVE FOR PREVENTING OR TREATING CHOLANGITIS OR CHOLANGITIS OR INDUCED LIVER DISEASE</b></p> <p>[54] <b>COMPOSITION PHARMACEUTIQUE COMPRENANT UN DERIVE D'ADENOSINE POUR LA PREVENTION OU LE TRAITEMENT DE L'ANGIOCHOLITE OU D'UNE MALADIE HEPATIQUE INDUITE PAR L'ANGIOCHOLITE</b></p> <p>[72] LEE, HYUK WOO, KR [72] AHN, SANG YEOP, KR [72] CHO, HYEON DEOK, KR [72] CHOI, YOON PYO, KR [72] SEO, SEONG WOOK, KR [71] FUTURE MEDICINE CO., LTD., KR [85] 2024-01-15 [86] 2022-01-25 (PCT/KR2022/001293) [87] (WO2023/286963) [30] KR (10-2021-0092863) 2021-07-15</p>	<p>[51] <b>Int.Cl. A61K 8/34 (2006.01) A61K 8/9789 (2017.01) A61K 8/44 (2006.01)</b></p> <p>[25] FR</p> <p>[54] <b>NEW COSMETIC COMPOSITIONS CONTAINING ALOE VERA JUICE</b></p> <p>[54] <b>NOUVELLES COMPOSITIONS COSMETIQUES COMPRENANT DU JUS D'ALOE VERA</b></p> <p>[72] AZANCOT, HELENE, FR [71] YODI SAS, FR [85] 2024-01-15 [86] 2022-07-13 (PCT/EP2022/069563) [87] (WO2023/001653) [30] FR (FR21/07769) 2021-07-19</p>
		<p>[21] <b>3,225,920</b> [13] A1</p>
		<p>[51] <b>Int.Cl. G06Q 10/06 (2023.01) G06Q 50/02 (2012.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHOD OF ALLOCATING MACHINE RESOURCES DURING THE EXECUTION OF FARMING OPERATIONS</b></p> <p>[54] <b>PROCEDE DE REPARTITION DE RESSOURCES EN MACHINES LORS DE L'EXECUTION DE TRAVAUX AGRICOLES</b></p> <p>[72] NALBANDYAN, ARMEN [71] VEMIROVICH, RU [71] OBSHESTVO S OGRANICHENNOI OTVETSTVENNOSTYU "ARTEXIM" (??? "ARTEXIM"), AM [85] 2024-01-15 [86] 2022-05-19 (PCT/RU2022/000166) [87] (WO2023/287320) [30] RU (2021120876) 2021-07-15</p>
	<p>[21] <b>3,225,918</b> [13] A1</p>	
	<p>[51] <b>Int.Cl. G06F 16/958 (2019.01) G06F 16/957 (2019.01)</b></p> <p>[25] EN</p> <p>[54] <b>STREAMING STATIC WEB PAGE GENERATION</b></p> <p>[54] <b>GENERATION DE PAGE WEB STATIQUE EN DIFFUSION EN CONTINU</b></p> <p>[72] SINGH, PRANJAL, US [72] WEILER, GIDEON, US [72] REED, BRYAN, US [72] KIPPATRICK, MATTHEW, US [72] CHU, AUSTIN, US [72] BOWMAN, MATTHEW, US [71] YEXT, INC., US [85] 2024-01-15 [86] 2022-07-14 (PCT/US2022/037103) [87] (WO2023/003742) [30] US (63/224,228) 2021-07-21 [30] US (17/513,685) 2021-10-28 [30] US (63/255,664) 2021-10-14</p>	

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[21] **3,225,921**  
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 1/137 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR RETRIEVING AT LEAST ONE OBJECT FROM A STORAGE SYSTEM AND FILLING AT LEAST ONE CONTAINER**  
[54] **SYSTEME DE RECUPERATION D'AU MOINS UN OBJET A PARTIR D'UN SYSTEME DE STOCKAGE ET DE REMPLISSAGE D'AU MOINS UN RECIPIENT**  
[72] ERIKSEN, SIMON MARNBURG, NO  
[72] AZAD, FAHAD, NO  
[72] VALEN, ROALD, NO  
[72] KJERLAND, TROND, NO  
[72] BIRGISSON, EYMAR ANDRI, IS  
[71] PICKR AS, NO  
[85] 2024-01-15  
[86] 2022-08-04 (PCT/NO2022/050189)  
[87] (WO2023/018334)  
[30] NO (20210970) 2021-08-09

[21] **3,225,922**  
[13] A1

[51] **Int.Cl. A01H 1/00 (2006.01) A01H 1/04 (2006.01) C07K 14/415 (2006.01) C12N 9/12 (2006.01) C12N 15/82 (2006.01)**  
[25] EN  
[54] **BLACKLEG RESISTANT PLANTS AND METHODS FOR THE IDENTIFICATION OF BLACKLEG RESISTANT PLANTS**  
[54] **PLANTES RESISTANT A LA JAMBE NOIRE ET PROCEDES D'IDENTIFICATION DE PLANTES RESISTANT A LA JAMBE NOIRE**  
[72] ENGELEN, STEVEN, BE  
[72] VAN THOURNOUT, MICHEL, BE  
[71] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US  
[85] 2024-01-15  
[86] 2022-07-22 (PCT/US2022/074073)  
[87] (WO2023/004429)  
[30] EP (21187390.6) 2021-07-23

[21] **3,225,923**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 3/08 (2006.01) A61P 3/10 (2006.01) A61P 31/14 (2006.01) A61P 37/00 (2006.01) C07K 16/26 (2006.01) C07K 16/28 (2006.01) C07K 16/42 (2006.01) C07K 16/44 (2006.01)**  
[25] EN  
[54] **METHOD AND MEANS FOR ENHANCING THERAPEUTIC ANTIBODIES**  
[54] **PROCEDE ET MOYENS POUR RENFORCER DES ANTICORPS THERAPEUTIQUES**  
[72] JUMAA-WEINACHT, HASSAN, DE  
[71] VACCINVENT GMBH, DE  
[71] UNIVERSITAT ULM, DE  
[85] 2024-01-15  
[86] 2022-07-28 (PCT/EP2022/071294)  
[87] (WO2023/016826)  
[30] EP (21189996.8) 2021-08-05  
[30] EP (PCT/EP2022/052148) 2022-01-28

[21] **3,225,924**  
[13] A1

[51] **Int.Cl. C12N 9/02 (2006.01) C12N 15/52 (2006.01) C12N 15/80 (2006.01) C12P 23/00 (2006.01)**  
[25] EN  
[54] **NOVEL BETA-CAROTENE 15,15-OXYGENASE VARIANT AND RETINOID PRODUCTION METHOD USING SAME**  
[54] **NOUVEAU VARIANT DE BETA-CAROTENE 15,15-OXYGENASE ET PROCEDE DE PRODUCTION DE RETINOIDE L'UTILISANT**  
[72] PARK, HYE MIN, KR  
[72] LEE, PETER, KR  
[72] LEE, DONG PIL, KR  
[72] KIM, JAE EUNG, KR  
[71] CJ CHEILJEDANG CORPORATION, KR  
[85] 2024-01-15  
[86] 2022-07-15 (PCT/KR2022/010385)  
[87] (WO2023/287256)  
[30] KR (10-2021-0093034) 2021-07-15

[21] **3,225,926**  
[13] A1

[51] **Int.Cl. B60L 53/66 (2019.01) B60L 53/14 (2019.01) B60L 53/60 (2019.01) H02J 7/02 (2016.01)**  
[25] EN  
[54] **ADAPTER CONTROL APPARATUS AND METHOD, ADAPTER, AND CHARGING SYSTEM**  
[54] **APPAREIL ET PROCEDE DE COMMANDE D'ADAPTATEUR, ADAPTATEUR ET SYSTEME DE CHARGE**  
[72] WANG, CHAO, CN  
[71] CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., CN  
[85] 2024-01-15  
[86] 2022-07-21 (PCT/CN2022/107013)  
[87] (WO2023/001232)  
[30] CN (202110839623.8) 2021-07-23

[21] **3,225,927**  
[13] A1

[51] **Int.Cl. A61K 36/22 (2006.01) A61K 38/10 (2006.01) A61P 37/08 (2006.01)**  
[25] EN  
[54] **IMMUNOTHERAPEUTIC METHOD FOR INCREASING CASHEW TOLERANCE IN A SUBJECT**  
[54] **PROCEDE IMMUNOTHERAPEUTIQUE PERMETTANT D'AUGMENTER LA TOLERANCE AUX NOIX DE CAJOU CHEZ UN SUJET**  
[72] DIOSZEGHY, VINCENT, FR  
[72] MARTIN, WILLIAM, US  
[72] DE GROOT, ANNE, US  
[71] DBV TECHNOLOGIES, FR  
[85] 2024-01-15  
[86] 2021-07-16 (PCT/EP2021/070036)  
[87] (WO2023/284985)

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[21] **3,225,928**  
[13] A1

[51] **Int.Cl. B65B 5/10 (2006.01) G07F 17/00 (2006.01)**  
[25] EN  
[54] **HOPPER FOR COLLECTING AND DISPENSING DISCRETE MEDICAMENTS, OUTLET VALVE, DISPENSING DEVICE COMPRISING SAID HOPPER AND METHOD**  
[54] **TREMIE POUR COLLECTER ET DISTRIBUER DES MEDICAMENTS DISTINCTS, CLAPET DE SORTIE, DISPOSITIF DE DISTRIBUTION COMPRENANT LADITE TREMIE ET PROCEDE**  
[72] JOCHEMSEN, CORNELIS JAN, NL  
[71] VMI HOLLAND B.V., NL  
[85] 2024-01-15  
[86] 2022-07-29 (PCT/EP2022/071457)  
[87] (WO2023/007004)  
[30] NL (2028894) 2021-07-30

[21] **3,225,929**  
[13] A1

[51] **Int.Cl. A61N 5/10 (2006.01)**  
[25] EN  
[54] **TARGET MATERIAL FOR PARTICLE BEAM GENERATION APPARATUS**  
[54] **MATERIAU CIBLE POUR APPAREIL DE GENERATION DE FAISCEAU DE PARTICULES**  
[72] LIU, YUAN-HAO, CN  
[72] LIN, CHUN-TING, CN  
[71] NEUBORON THERAPY SYSTEM LTD., CN  
[85] 2024-01-15  
[86] 2022-07-13 (PCT/CN2022/105408)  
[87] (WO2023/284772)  
[30] CN (202110807267.1) 2021-07-16

[21] **3,225,930**  
[13] A1

[51] **Int.Cl. B65B 3/00 (2006.01) F24F 3/167 (2021.01) B65B 55/16 (2006.01) B65G 1/00 (2006.01) C12M 1/12 (2006.01) G05B 19/18 (2006.01) H01L 21/677 (2006.01)**  
[25] EN  
[54] **PRODUCTION SYSTEM AND METHOD FOR PRODUCING A PRODUCT**  
[54] **SYSTEME DE PRODUCTION ET PROCEDE DE PRODUCTION D'UN PRODUIT**  
[72] BOTT, MARIO, DE  
[72] SCHOBER, LENA, DE  
[72] WELLER, DAVID, DE  
[71] KYOOBE TECH GMBH, DE  
[85] 2024-01-15  
[86] 2022-07-18 (PCT/EP2022/070048)  
[87] (WO2023/001753)  
[30] DE (10 2021 207 737.4) 2021-07-20

[21] **3,225,931**  
[13] A1

[51] **Int.Cl. A23J 1/20 (2006.01) A23L 33/19 (2016.01) C07K 14/52 (2006.01) C07K 14/78 (2006.01)**  
[25] EN  
[54] **METHOD OF PREPARING A PHOSPHOLIPID-ENRICHED, WHEY-DERIVED COMPOSITION HAVING A LOW CONTENT OF MICROORGANISMS, THE COMPOSITION AS SUCH, AND NUTRITIONAL USE OF THE COMPOSITION**  
[54] **PROCEDE DE PREPARATION D'UNE COMPOSITION DERIVEE DE LACTOSERUM ENRICHIE EN PHOSPHOLIPIDES AYANT UNE FAIBLE TENEUR EN MICRO-ORGANISMES, COMPOSITION EN TANT QUE TELLE, ET UTILISATION NUTRITIONNELLE DE LA COMPOSITIO**  
[72] BERTELSEN, HANS, DK  
[72] DRACHMANN, NIKOLAJ, DK  
[72] KVISTGAARD, ANNE STAUDT, DK  
[72] POULSEN, KRISTIAN RAABY, DK  
[72] VOSYLE, DONATA, DK  
[71] ARLA FOODS AMBA, DK  
[85] 2024-01-15  
[86] 2022-07-18 (PCT/EP2022/070107)  
[87] (WO2023/001783)  
[30] EP (21186653.8) 2021-07-20

[21] **3,225,933**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01)**  
[25] EN  
[54] **IL-13 ANTIBODIES FOR THE TREATMENT OF ATOPIC DERMATITIS**  
[54] **ANTICORPS ANTI-IL-13 POUR LE TRAITEMENT DE LA DERMATITE ATOPIQUE**  
[72] AGELL GIMENO, HELENA, US  
[72] ARMENGOL TUBAU, CLARA, US  
[72] GARCIA GIL, MARIA ESTHER, US  
[72] MAESO NAVAL, SILVIA, US  
[71] DERMIRA, INC., US  
[85] 2024-01-15  
[86] 2022-06-30 (PCT/US2022/035663)  
[87] (WO2023/287590)  
[30] EP (21382645.6) 2021-07-16  
[30] EP (22382098.6) 2022-02-07

[21] **3,225,934**  
[13] A1

[51] **Int.Cl. C02F 1/00 (2006.01) C02F 3/00 (2006.01) C02F 11/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR REDUCING POLLUTANTS, INCLUDING CARBON IN PUBLIC UTILITIES, AGRICULTURE AND MANUFACTURING**  
[54] **SYSTEMES ET PROCEDES POUR REDUIRE LES POLLUANTS, Y COMPRIS LE CARBONE DANS DES SERVICES PUBLICS, L'AGRICULTURE ET LA PRODUCTION**  
[72] WHITEMAN, ROBERT, US  
[71] ADVANCED INNOVATORS, INC., US  
[85] 2024-01-15  
[86] 2022-07-30 (PCT/US2022/038978)  
[87] (WO2023/009882)  
[30] US (63/227,979) 2021-07-30

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[21] **3,225,939**  
[13] A1

[51] **Int.Cl. A61M 11/02 (2006.01)**  
[25] EN  
[54] **DRUG DELIVERY SYSTEMS, DEVICES, AND METHODS SYSTEMES, DISPOSITIFS ET PROCEDES D'ADMINISTRATION DE MEDICAMENT**

[72] JACOBS, ROBERT FRANCIS JR., US  
[72] GEIMAN, J. ROBERT, US  
[72] DEAN, DOUGLAS PHILIP, US  
[72] DAVIS, JAMES MCDOWELL JR., US  
[72] MARCI, CARL DAVID, US  
[72] YAMIN, LIAD, US  
[71] PREDICTABLY HUMAN, INC., US  
[85] 2024-01-15  
[86] 2022-07-14 (PCT/US2022/037213)  
[87] (WO2023/288022)  
[30] US (63/203,324) 2021-07-16  
[30] US (63/261,638) 2021-09-24  
[30] US (63/263,863) 2021-11-10  
[30] US (17/650,783) 2022-02-11

[21] **3,225,941**  
[13] A1

[51] **Int.Cl. H04W 24/10 (2009.01) H04B 17/309 (2015.01) G08C 17/02 (2006.01)**

[25] EN  
[54] **SENSING SESSION ESTABLISHMENT METHOD AND COMMUNICATION APPARATUS**

[54] **PROCEDE D'ETABLISSEMENT D'UNE SESSION DE DETECTION, ET DISPOSITIF DE COMMUNICATION**

[72] DU, RUI, CN  
[72] ZHENG, ZIHAN, CN  
[72] YANG, LINGLING, CN  
[72] ZHANG, MEIHONG, CN  
[72] HAN, XIAO, CN  
[72] HU, MENGSHI, CN  
[72] YANG, XUN, CN  
[72] LONG, YAN, CN  
[72] HE, RONG, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2024-01-15  
[86] 2022-06-28 (PCT/CN2022/101932)  
[87] (WO2023/284544)  
[30] CN (202110797771.8) 2021-07-14

[21] **3,225,942**  
[13] A1

[51] **Int.Cl. B65B 3/00 (2006.01) F24F 3/167 (2021.01) B65B 55/16 (2006.01) B65G 1/00 (2006.01) C12M 1/12 (2006.01) G05B 19/18 (2006.01) H01L 21/677 (2006.01)**

[25] EN  
[54] **PRODUCTION SYSTEM AND METHOD FOR PRODUCING A PRODUCT**

[54] **INSTALLATION DE PRODUCTION ET PROCEDE DE FABRICATION D'UN PRODUIT**

[72] BOTT, MARIO, DE  
[72] SCHOBER, LENA, DE  
[72] WELLER, DAVID, DE  
[71] KYOOBE TECH GMBH, DE  
[85] 2024-01-15  
[86] 2022-07-18 (PCT/EP2022/070065)  
[87] (WO2023/001764)  
[30] DE (10 2021 207 743.9) 2021-07-20

[21] **3,225,944**  
[13] A1

[51] **Int.Cl. B28C 5/48 (2006.01)**

[25] EN  
[54] **ULTRASONIC GENERATION DEVICE AND CONCRETE FORMING SYSTEM**

[54] **DISPOSITIF DE GENERATION D'ULTRASONS ET SYSTEME DE FORMATION DE BETON**

[72] KOU, ZIMING, CN  
[72] WU, JUAN, CN  
[72] WANG, HULIN, CN  
[72] REN, QICHAO, CN  
[72] PENG, YANWEI, CN  
[72] ZHANG, BUWEN, CN  
[72] YAN, FENG, CN  
[71] TAIYUAN UNIVERSITY OF TECHNOLOGY, CN  
[71] SHANXI LINGXUDA TECHNOLOGY CO., LTD, CN  
[85] 2024-01-15  
[86] 2023-01-10 (PCT/CN2023/071614)  
[87] (WO2023/216644)  
[30] CN (202210505691.5) 2022-05-10

[21] **3,225,945**  
[13] A1

[51] **Int.Cl. C07C 311/29 (2006.01) A61P 25/36 (2006.01) C07D 213/74 (2006.01) C07D 231/12 (2006.01) C07D 231/56 (2006.01) C07D 239/42 (2006.01)**

[25] EN  
[54] **SULFAMOYL BENZENE DERIVATIVES AND USES THEREOF**

[54] **DERIVES DE SULFAMOYL BENZENE ET LEURS UTILISATIONS**

[72] TRANG, TUAN, CA  
[72] DERKSEN, DARREN JASON, CA  
[72] NAVIS, KATHLEEN, CA  
[72] GOROBETS, EVGUENI, CA  
[72] PAPATZIMAS, JAMES, CA  
[71] APHIOTX INC., CA  
[85] 2024-01-15  
[86] 2022-07-15 (PCT/CA2022/051102)  
[87] (WO2023/283743)  
[30] US (63/222,704) 2021-07-16

[21] **3,225,946**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/00 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01) A61K 47/44 (2017.01) A61M 15/00 (2006.01) A61M 15/08 (2006.01) A61P 11/00 (2006.01)**

[25] EN  
[54] **AQUEOUS BUMETANIDE-CONTAINING LIQUID**

[54] **LIQUIDE AQUEUX CONTENANT DU BUMETANIDE**

[72] PELLIKAAN, HUBERT CLEMENS, NL  
[72] VAN DRIEL, VINCENT JEAN HENDRIK MICHEL, NL  
[71] DRIPEL B.V., NL  
[85] 2024-01-15  
[86] 2022-04-12 (PCT/EP2022/059741)  
[87] (WO2023/285009)  
[30] EP (21186148.9) 2021-07-16

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[21] **3,225,947**  
[13] A1

[51] **Int.Cl. A61F 5/455 (2006.01) A61F 6/12 (2006.01) A61F 13/53 (2006.01)**

[25] EN

[54] **MENSTRUAL COLLECTION DEVICE, APPLICATOR AND A METHOD OF INSERTING A MENSTRUAL COLLECTION DEVICE WITH AN APPLICATOR**

[54] **DISPOSITIF DE COLLECTE MENSTRUELLE, APPLICATEUR ET METHODE D'INSERTION D'UN DISPOSITIF DE COLLECTE MENSTRUELLE AVEC UN APPLICATEUR**

[72] BELARDO, CYNTHIA, US  
[72] DREW, JARVIS, US  
[72] ETTINGER, BENJAMIN, US  
[72] KLEINSCHMIDT, SEAN, US  
[72] CHAPMAN, GRANT, US  
[71] MENSTRUAL MATES, INC., US  
[85] 2024-01-15  
[86] 2022-07-13 (PCT/US2022/073688)  
[87] (WO2023/004246)  
[30] US (63/223,155) 2021-07-19  
[30] US (17/664,726) 2022-05-24

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[21] **3,225,948**  
[13] A1

[51] **Int.Cl. C11D 1/62 (2006.01) C11D 3/20 (2006.01) C11D 3/30 (2006.01) C11D 3/48 (2006.01) C11D 11/00 (2006.01)**

[25] EN

[54] **LAUNDRY SANITIZING COMPOSITION**

[54] **COMPOSITION D'ASSAINISSEMENT DU LINGE**

[72] CRUDDEN, EDWARD, US  
[71] RECKITT BENCKISER HEALTH LIMITED, GB  
[85] 2023-12-29  
[86] 2022-06-28 (PCT/GB2022/051661)  
[87] (WO2023/275536)  
[30] GB (2109330.7) 2021-06-29  
[30] EP (21182363.8) 2021-06-29

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[21] **3,225,949**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 1/26 (2006.01)**

[25] EN

[54] **BIOPROCESSING SYSTEM**

[54] **SYSTEME DE BIOTRAITEMENT**

[72] STRANGE, DANIEL, GB  
[72] CROSSLEY, PETER, GB  
[72] MOTTRAM, MARTIN, GB  
[72] STONE, EDWIN, GB  
[72] STEENSON, LEO, GB  
[72] CRISP, PAUL, GB  
[72] STAUSKIS, LUKAS, GB  
[71] CELLULAR ORIGINS LIMITED, GB  
[85] 2023-12-29  
[86] 2022-07-06 (PCT/GB2022/051737)  
[87] (WO2023/281257)  
[30] GB (2109779.5) 2021-07-06

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[21] **3,225,951**  
[13] A1

[51] **Int.Cl. B29C 65/20 (2006.01) A61M 39/14 (2006.01) B29C 65/00 (2006.01) B29C 65/24 (2006.01) B29C 65/30 (2006.01) B29C 65/78 (2006.01) B29C 65/82 (2006.01)**

[25] EN

[54] **AUTOMATED APPARATUS**

[54] **APPAREIL AUTOMATISE**

[72] STRANGE, DANIEL, GB  
[72] CRISP, PAUL, GB  
[72] CROSSLEY, PETER, GB  
[72] MOTTRAM, MARTIN, GB  
[72] STONE, EDWIN, GB  
[71] CELLULAR ORIGINS LIMITED, GB  
[85] 2023-12-29  
[86] 2022-07-06 (PCT/GB2022/051739)  
[87] (WO2023/281258)  
[30] GB (2109779.5) 2021-07-06  
[30] GB (2204725.2) 2022-03-31

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[21] **3,225,952**  
[13] A1

[51] **Int.Cl. C22B 7/00 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **METHOD FOR RECYCLING LI-ION BATTERIES**

[54] **PROCEDE DE RECYCLAGE DE BATTERIES LITHIUM-ION**

[72] GEIMER, STEPHAN, DE  
[72] REUTER, MARKUS ANDREAS, DE  
[72] BOROWSKI, NIKOLAUS PETER KURT, DE  
[72] HECKER, ERIK, DE  
[71] SMS GROUP GMBH, DE  
[85] 2023-12-29  
[86] 2022-07-11 (PCT/EP2022/069343)  
[87] (WO2023/285394)  
[30] DE (10 2021 207 544.4) 2021-07-15

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[21] **3,225,954**  
[13] A1

[51] **Int.Cl. H05B 47/19 (2020.01) B64F 1/00 (2024.01) B64F 1/20 (2006.01)**

[25] EN

[54] **AIRPORT SIGNALLING SYSTEM WITH ULTRA-WIDEBAND COMMUNICATION CAPABILITY**

[54] **SYSTEME DE SIGNALISATION D'AEROPORT A CAPACITE DE COMMUNICATION A BANDE ULTRA-LARGE**

[72] MENE, LUCA, AE  
[72] JELU, ANDRE, BE  
[72] PENNINGCKX, WIM, BE  
[71] ADB SAFEGATE BV, BE  
[85] 2023-12-29  
[86] 2022-07-15 (PCT/EP2022/069839)  
[87] (WO2023/285645)  
[30] EP (21186220.6) 2021-07-16



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[21] **3,225,955**  
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **CONJUGATING REAGENTS AND CONJUGATES THEREOF**  
[54] **REACTIFS DE CONJUGAISON ET CONJUGUES DE CES DERNIERS**  
[72] SPRING, DAVID ROBERT, GB  
[72] WALSH, STEPHEN JAMES, GB  
[72] DANNHEIM, FRIEDERIKE MARIE, GB  
[71] CAMBRIDGE ENTERPRISE LIMITED, GB  
[85] 2023-12-29  
[86] 2022-07-26 (PCT/EP2022/071003)  
[87] (WO2023/006782)  
[30] GB (2110726.3) 2021-07-26

[21] **3,225,958**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2023.01) G06Q 20/38 (2012.01)**  
[25] EN  
[54] **DETERMINING IDENTIFYING INFORMATION OF CUSTOMERS**  
[54] **DETERMINATION D'INFORMATIONS D'IDENTIFICATION DE CLIENTS**  
[72] RAFFERTY, THOMAS, US  
[72] RUPANAGUDI, RUKMANGADA REDDY, US  
[72] HARTWIG, MICHAEL ROY, US  
[71] OPTX SOLUTIONS, LLC, US  
[85] 2023-12-29  
[86] 2022-06-24 (PCT/US2022/035024)  
[87] (WO2023/278280)  
[30] US (17/364,282) 2021-06-30

[21] **3,225,960**  
[13] A1

[51] **Int.Cl. G06F 3/048 (2013.01)**  
[25] EN  
[54] **OPERATIONS PLATFORM FOR MANAGING SERVICES AT A PROPERTY**  
[54] **PLATE-FORME D'OPERATIONS POUR GERER DES SERVICES AU NIVEAU D'UNE PROPRIETE**  
[72] FIUMARA, ASHLEY BROOKE, US  
[72] RAFFERTY, THOMAS, US  
[72] RUPANAGUDI, RUKMANGADA REDDY, US  
[72] HARTWIG, MICHAEL ROY, US  
[71] OPTX SOLUTIONS, LLC, US  
[85] 2023-12-29  
[86] 2022-06-24 (PCT/US2022/035023)  
[87] (WO2023/278279)  
[30] US (17/364,181) 2021-06-30

[21] **3,225,961**  
[13] A1

[51] **Int.Cl. A23L 2/52 (2006.01) A23L 2/00 (2006.01) C12G 3/04 (2019.01)**  
[25] EN  
[54] **BEVERAGE, AND METHOD FOR ENHANCING ALCOHOLIC FEEL OF BEVERAGE**  
[54] **BOISSON ET PROCEDE POUR AMELIORER LA SENSATION DE PRESENCE D'ALCOOL D'UNE BOISSON**  
[72] KANDA, NAOTO, JP  
[72] ISHII, HITOSHI, JP  
[72] SASANUMA, YUMI, JP  
[72] KAJI, SATORU, JP  
[71] SUNTORY HOLDINGS LIMITED, JP  
[85] 2023-12-29  
[86] 2022-06-29 (PCT/JP2022/025900)  
[87] (WO2023/277050)  
[30] JP (2021-110024) 2021-07-01

[21] **3,225,963**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2023.01)**  
[25] EN  
[54] **GAMING OFFER GENERATION VIA RULES-BASED ENGINE**  
[54] **GENERATION D'OFFRES DE JEU PAR L'INTERMEDIAIRE D'UN MOTEUR A BASE DE REGLES**  
[72] FIUMARA, ASHLEY BROOKE, US  
[72] WARNER, WILLIAM, US  
[72] RAFFERTY, THOMAS, US  
[71] OPTX SOLUTIONS, LLC, US  
[85] 2023-12-29  
[86] 2022-06-24 (PCT/US2022/035017)  
[87] (WO2023/278278)  
[30] US (17/364,272) 2021-06-30

[21] **3,225,964**  
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01) A61K 31/7088 (2006.01) A61K 31/7115 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61K 48/00 (2006.01) A61P 43/00 (2006.01) C07H 21/02 (2006.01) C07H 21/04 (2006.01) C12N 5/10 (2006.01) C12N 15/67 (2006.01) C12P 21/02 (2006.01)**  
[25] EN  
[54] **POLYNUCLEOTIDE AND PHARMACEUTICAL COMPOSITION**  
[54] **POLYNUCLEOTIDE ET COMPOSITION MEDICINALE**  
[72] IWAI, HIROTO, JP  
[72] HOMMA, MASAKAZU, JP  
[72] ATAGO, TAKAYUKI, JP  
[72] YAMAMOTO, JUNICHIRO, JP  
[72] ABE, HIROSHI, JP  
[72] KIMURA, YASUAKI, JP  
[71] KYOWA KIRIN CO., LTD., JP  
[71] NATIONAL UNIVERSITY CORPORATION TOKAI NATIONAL HIGHER EDUCATION AND RESEARCH SYSTEM, JP  
[85] 2023-12-29  
[86] 2022-06-30 (PCT/JP2022/026411)  
[87] (WO2023/277168)  
[30] JP (2021-109239) 2021-06-30  
[30] JP (2021-169846) 2021-10-15

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[21] **3,225,965**  
[13] A1

[51] **Int.Cl. E21B 33/035 (2006.01) E21B 47/117 (2012.01) G01M 3/28 (2006.01)**  
[25] EN  
[54] **SUBSEA TREE VALVE TESTING**  
[54] **TEST DE VANNE D'ARBRE SOUS-MARIN**  
[72] STOKKE, RAGNAR, NO  
[72] FAANES, AUDUN, NO  
[72] VEDELD, HENRIK, NO  
[72] HALVORSEN, GLENN-ROAR, NO  
[71] EQUINOR ENERGY AS, NO  
[85] 2023-12-29  
[86] 2022-06-29 (PCT/NO2022/050154)  
[87] (WO2023/277697)  
[30] GB (2109479.2) 2021-06-30

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[21] **3,225,967**  
[13] A1

[51] **Int.Cl. A63F 9/24 (2006.01) G06Q 10/06 (2023.01) A63F 13/79 (2014.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **INTERACTIVE CAMPAIGN MANAGEMENT USING PLAYER INSIGHTS**  
[54] **GESTION DE CAMPAGNE INTERACTIVE UTILISANT DES CONNAISSANCES SUR DES JOUEURS**  
[72] HARTWIG, MICHAEL ROY, US  
[72] FIUMARA, ASHLEY BROOKE, US  
[72] RAFFERTY, THOMAS, US  
[71] OPTX SOLUTIONS, LLC, US  
[85] 2023-12-29  
[86] 2022-06-28 (PCT/US2022/035323)  
[87] (WO2023/278451)  
[30] US (17/364,361) 2021-06-30  
[30] US (17/592,431) 2022-02-03

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[21] **3,225,968**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2023.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR TASK MANAGEMENT, DEVELOPING PLAYER PROFILE ANALYTICS, AND INTERACTIVE MARKETING PLATFORM WITH PLAYER INSIGHTS**  
[54] **SYSTEMES ET PROCEDES DE GESTION DE TACHES, DE DEVELOPPEMENT D'ANALYSES DE PROFILS DE JOUEURS ET PLATEFORME DE MARKETING INTERACTIVE COMPRENANT DES RENSEIGNEMENTS SUR LES JOUEURS**  
[72] HARTWIG, MICHAEL ROY, US  
[72] FIUMARA, ASHLEY BROOKE, US  
[72] RAFFERTY, THOMAS, US  
[71] OPTX SOLUTIONS, LLC, US  
[85] 2023-12-29  
[86] 2022-06-28 (PCT/US2022/035347)  
[87] (WO2023/278473)  
[30] US (17/364,233) 2021-06-30  
[30] US (17/364,361) 2021-06-30  
[30] US (17/592,428) 2022-02-03  
[30] US (17/592,401) 2022-02-03

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[21] **3,225,972**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 3/04 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01)**  
[25] EN  
[54] **ANTI-GFRAL ANTIBODY AND APPLICATION THEREOF**  
[54] **ANTICORPS ANTI-GFRAL ET APPLICATION ASSOCIEE**  
[72] LIU, QIAN, CN  
[72] REN, BAOLAN, CN  
[72] FENG, XU, CN  
[72] SONG, LIPING, CN  
[72] FAN, YI, CN  
[72] YANG, LI, CN  
[71] SHANGHAI JMT-BIO TECHNOLOGY CO., LTD., CN  
[85] 2023-12-29  
[86] 2022-06-29 (PCT/CN2022/102174)  
[87] (WO2023/274276)  
[30] CN (202110739877.2) 2021-06-30

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[21] **3,225,974**  
[13] A1

[51] **Int.Cl. G01N 21/63 (2006.01) G01N 21/19 (2006.01) G01N 33/50 (2006.01)**  
[25] EN  
[54] **MULTIPLEX OPTICAL STIMULUS AND READOUT**  
[54] **STIMULUS OPTIQUE MULTIPLEXE ET LECTURE**  
[72] BORJA, GABRIEL BENITO, US  
[72] LU, YANG, US  
[72] HARWOOD, BENJAMIN, US  
[72] ZHANG, HONGKANG, US  
[72] WERLEY, CHRISTOPHER, US  
[72] MCMANUS, OWEN, US  
[72] DEMPSEY, GRAHAM T., US  
[71] Q-STATE BIOSCIENCES, INC., US  
[85] 2023-12-29  
[86] 2022-06-30 (PCT/US2022/035684)  
[87] (WO2023/278672)  
[30] US (63/217,145) 2021-06-30

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[21] **3,225,976**  
[13] A1

[51] **Int.Cl. A61F 2/02 (2006.01)**  
[25] EN  
[54] **METHODS AND IMPLANTABLE PROSTHESIS FOR RECONSTRUCTION AND/OR AUGMENTATION OF AN ANATOMICAL FEATURE**  
[54] **PROCEDES ET PROTHESE IMPLANTABLE POUR LA RECONSTRUCTION ET/OU L'AUGMENTATION D'UNE CARACTERISTIQUE ANATOMIQUE**  
[72] PARKER, IAN K., US  
[72] GRIFFIN, JEREMY, US  
[72] GRAY, EVAN, US  
[72] PAGAN-ORTIZ, ANGEL, US  
[71] DAVOL INC., US  
[85] 2023-12-29  
[86] 2022-06-30 (PCT/US2022/035716)  
[87] (WO2023/278697)  
[30] US (63/218,231) 2021-07-02  
[30] US (63/218,236) 2021-07-02

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[21] **3,225,978**  
[13] A1

[51] **Int.Cl. C02F 11/10 (2006.01) C10B 57/02 (2006.01) C10B 57/16 (2006.01) C22B 1/24 (2006.01)**

[25] EN

[54] **PROCESSES FOR PRODUCING BIOCARBON PELLETS WITH HIGH FIXED-CARBON CONTENT AND OPTIMIZED REACTIVITY, AND BIOCARBON PELLETS OBTAINED THEREFROM**

[54] **PROCEDES DE PRODUCTION DE GRANULES DE BIOCARBONE A TENEUR ELEVEE EN CARBONE FIXE ET A REACTIVITE OPTIMISEE, ET GRANULES DE BIOCARBONE OBTENUS A PARTIR DE CES PROCEDES**

[72] SLACK, DUSTIN, US  
[72] MENNELL, JAMES A., US  
[72] DAUGAARD, DAREN, US  
[71] CARBON TECHNOLOGY HOLDINGS, LLC, US

[85] 2023-12-29  
[86] 2022-07-07 (PCT/US2022/036292)  
[87] (WO2023/283289)  
[30] US (63/220,073) 2021-07-09

[21] **3,225,979**  
[13] A1

[51] **Int.Cl. G01V 1/36 (2006.01) G01V 1/32 (2006.01)**

[25] EN

[54] **DIRECT ARRIVAL REPLACEMENT FOR SEISMIC IMAGING**

[54] **REMPLACEMENT DIRECT D'ARRIVEE POUR IMAGERIE SISMIQUE**

[72] KRISTIANSSEN, PAAL, NO  
[72] CAPRIOLI, PHILIPPE, GB  
[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2023-12-29  
[86] 2022-06-30 (PCT/US2022/035780)  
[87] (WO2023/278738)  
[30] US (63/202,952) 2021-07-01

[21] **3,225,980**  
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 47/06 (2012.01) E21B 47/10 (2012.01)**

[25] EN

[54] **WELLSITE EQUIPMENT CONTROLLER**

[54] **DISPOSITIF DE COMMANDE D'EQUIPEMENT DE SITE DE FORAGE**

[72] HERNANDEZ DE LA BASTIDA, MIGUEL ANGEL, US  
[72] MASSONI ABINADER, ANTONIO, US  
[72] GAMBARETTO, AGUSTIN, US  
[72] SRIDHAR, GARUD, GB  
[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2023-12-29  
[86] 2022-06-30 (PCT/US2022/035788)  
[87] (WO2023/278745)  
[30] US (63/218,180) 2021-07-02

[21] **3,225,981**  
[13] A1

[51] **Int.Cl. C12Q 1/70 (2006.01) C12N 15/86 (2006.01) G01N 33/50 (2006.01) G01N 33/72 (2006.01) G01N 31/00 (2006.01)**

[25] EN

[54] **METHODS**

[54] **PROCEDES**

[72] SHESTOPALOV, ILYA, US  
[72] SAIA, GREGORY LAWRENCE, US  
[71] BLUEBIRD BIO, INC., US

[85] 2023-12-29  
[86] 2022-06-30 (PCT/US2022/035883)  
[87] (WO2023/278810)  
[30] US (63/217,576) 2021-07-01

[21] **3,225,984**  
[13] A1

[51] **Int.Cl. A61B 17/72 (2006.01) A61B 17/58 (2006.01) A61B 17/68 (2006.01)**

[25] EN

[54] **BONE FRACTURE FIXATION DEVICE AND RELATED SYSTEMS AND METHODS**

[54] **DISPOSITIF DE FIXATION DE FRACTURE OSSEUSE ET SYSTEMES ET PROCEDES ASSOCIES**

[72] RUSH, SHANNON M., US  
[72] KAWALIK, DAVID, US  
[72] LEE, MICHAEL, US  
[72] GROSSMAN, JORDAN, US  
[72] BOFFELI, TROY J., US  
[72] HARDY, MARK, US  
[71] SURGICAL DESIGN INNOVATIONS II, LLC, US

[85] 2023-12-29  
[86] 2022-07-07 (PCT/US2022/036346)  
[87] (WO2023/283326)  
[30] US (63/219,112) 2021-07-07

[21] **3,225,985**  
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01)**

[25] EN

[54] **ENGINEERED NATURAL KILLER (NK) CELLS AND RELATED METHODS**

[54] **CELLULES TUEUSES NATURELLES (NK) MODIFIEES ET METHODES ASSOCIEES**

[72] DIPIERRO, GUY, US  
[72] BIGLEY, AUSTIN, US  
[71] INDAPTA THERAPEUTICS, INC., US

[85] 2023-12-29  
[86] 2022-06-30 (PCT/US2022/035884)  
[87] (WO2023/278811)  
[30] US (63/217,718) 2021-07-01  
[30] US (63/217,722) 2021-07-01  
[30] US (63/217,726) 2021-07-01

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[21] **3,225,986**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **ANTI-CCR8 ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS ANTI-CCR8 ET LEURS UTILISATIONS**

[72] PRIGENT, JULIE, FR

[72] BELTRAMINELLI, NICOLA

[72] ARTURO ALDO, FR

[72] ELLOUZE, SAMI, FR

[72] ADRIAN, FRANCISCO, US

[72] SCHWEIZER, LIANG, US

[72] LU, YUN-YUEH, CN

[72] FULTON, ROSS BANE, US

[71] HIFIBIO (HK) LIMITED, CN

[85] 2023-12-29

[86] 2022-08-19 (PCT/CN2022/113739)

[87] (WO2023/020621)

[30] CN (PCT/CN2021/113913) 2021-08-20

[21] **3,225,988**  
[13] A1

[51] **Int.Cl. A47F 3/04 (2006.01)**

[25] EN

[54] **REFRIGERATED MERCHANDISER WITH TUNABLE AIRFLOW DISCHARGE**

[54] **PRESENTOIR REFRIGERE A EVACUATION DE FLUX D'AIR REGLABLE**

[72] CHAUHAN, MONISH B., US

[72] GILLETT, MICHAEL A., US

[72] PALAKSHA, SANDEEP, IN

[71] HUSSMANN CORPORATION, US

[85] 2023-12-29

[86] 2022-07-13 (PCT/US2022/036895)

[87] (WO2023/287842)

[30] US (63/221,257) 2021-07-13

[21] **3,225,992**  
[13] A1

[51] **Int.Cl. A01B 69/00 (2006.01) A01B 39/00 (2006.01)**

[25] EN

[54] **TREATMENT SYSTEMS AND ASSOCIATED METHODS**

[54] **SYSTEMES DE TRAITEMENT ET PROCEDES ASSOCIES**

[72] CRISP, JASON D., US

[72] MCCOMB, GORDON J., US

[71] LISI GLOBAL, INC., US

[85] 2023-12-29

[86] 2022-07-14 (PCT/US2022/037154)

[87] (WO2023/287993)

[30] US (63/222,246) 2021-07-15

[21] **3,225,994**  
[13] A1

[51] **Int.Cl. A61N 2/02 (2006.01) A61N 2/00 (2006.01) H02M 7/48 (2007.01) H03K 3/02 (2006.01)**

[25] EN

[54] **MONOPHASIC MAGNETIC STIMULATOR FOR TRANSCRANIAL MAGNETIC STIMULATION**

[54] **STIMULATEUR MAGNETIQUE MONOPHASIQUE POUR STIMULATION MAGNETIQUE TRANSCRANIENNE**

[72] MORAVEC, MIROSLAV, CZ

[71] DEYMED DIAGNOSTIC S.R.O., CZ

[85] 2023-12-29

[86] 2022-07-08 (PCT/CZ2022/000031)

[87] (WO2023/280332)

[30] CZ (PV 2021-333) 2021-07-09

[30] CZ (PV 2022-299) 2022-07-04

[21] **3,225,996**  
[13] A1

[51] **Int.Cl. A61K 31/4162 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **TETRAHYDROPIRAZOLOPYRIDINE-ANALOG LIGANDS OF NLRX1 AND USES THEREOF**

[54] **ANALOGUES DE TETRAHYDROPIRAZOLOPYRIDINE LIGANDS DE NLRX1 ET LEURS UTILISATIONS**

[72] BASSAGANYA-RIERA, JOSEP, US

[72] HONTECILLAS, RAQUEL, US

[72] TUBAU-JUNI, NURIA, US

[72] LEBER, ANDREW, US

[71] LANDOS BIOPHARMA, INC., US

[85] 2023-12-29

[86] 2022-08-09 (PCT/US2022/039781)

[87] (WO2023/018682)

[30] US (63/231,992) 2021-08-11

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[21] <b>3,225,999</b> [13] A1	[21] <b>3,226,002</b> [13] A1	[21] <b>3,226,006</b> [13] A1
<p>[51] <b>Int.Cl. G06F 40/10 (2020.01) G06N 20/00 (2019.01) G06F 40/20 (2020.01) G06F 40/30 (2020.01) G10L 15/06 (2013.01) G10L 15/197 (2013.01) G06F 40/295 (2020.01) G06N 5/02 (2023.01) G10L 15/18 (2013.01)</b></p> <p>[25] EN</p> <p>[54] <b>AI-AUGMENTED AUDITING PLATFORM INCLUDING TECHNIQUES FOR AUTOMATED ADJUDICATION OF COMMERCIAL SUBSTANCE, RELATED PARTIES, AND COLLECTABILITY</b></p> <p>[54] <b>PLATEFORME DE VERIFICATION A IA AUGMENTEE COMPRENANT DES TECHNIQUES D'ADJUDICATION AUTOMATIQUE DE SUBSTANCE COMMERCIALE, DE PARTIES ASSOCIEES ET DE COLLECTABILITE</b></p> <p>[72] LI, CHUNG-SHENG, US</p> <p>[72] CHENG, WINNIE, US</p> <p>[72] FLAVELL, MARK JOHN, US</p> <p>[72] HALLMARK, LORI MARIE, US</p> <p>[72] LIZOTTE, NANCY ALAYNE, US</p> <p>[72] LEONG, KEVIN MA, US</p> <p>[71] PWC PRODUCT SALES LLC, US</p> <p>[85] 2023-12-29</p> <p>[86] 2022-06-30 (PCT/US2022/073279)</p> <p>[87] (WO2023/279038)</p> <p>[30] US (63/217,119) 2021-06-30</p> <p>[30] US (63/217,123) 2021-06-30</p> <p>[30] US (63/217,127) 2021-06-30</p> <p>[30] US (63/217,131) 2021-06-30</p> <p>[30] US (63/217,134) 2021-06-30</p>	<p>[51] <b>Int.Cl. C12N 9/22 (2006.01) C12N 9/52 (2006.01) C12N 15/11 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>ENGINEERED FNCAS9 AND USES THEREOF</b></p> <p>[54] <b>FNCAS9 MODIFIE ET SES UTILISATIONS</b></p> <p>[72] CHAKRABORTY, DEBOJYOTI, IN</p> <p>[72] MAITI, SOUVIK, IN</p> <p>[72] NUREKI, OSAMU, JP</p> <p>[72] NISHIMASU, HIROSHI, JP</p> <p>[72] ACHARYA, SUNDARAM, IN</p> <p>[72] HIRANO, SEICHI, JP</p> <p>[72] HIRANO, HISATO, JP</p> <p>[71] COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH, IN</p> <p>[71] DEPARTMENT OF BIOLOGICAL SCIENCES, GRADUATE SCHOOL OF SCIENCE, THE UNIVERSITY OF TOKYO, JP</p> <p>[85] 2023-12-29</p> <p>[86] 2022-06-29 (PCT/IN2022/050595)</p> <p>[87] (WO2023/275892)</p> <p>[30] IN (202111029109) 2021-06-29</p>	<p>[51] <b>Int.Cl. C07D 401/14 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>NOVEL PYRIMIDINE-2,4-DIAMINE DERIVATIVES, PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME AS ACTIVE INGREDIENT FOR PREVENTION OR TREATMENT OF CANCER</b></p> <p>[54] <b>NOUVEAUX DERIVES DE PYRIMIDINE-2,4-DIAMINE, LEUR PROCEDE DE PREPARATION ET COMPOSITION PHARMACEUTIQUE LES CONTENANT EN TANT QUE PRINCIPE ACTIF POUR LA PREVENTION OU LE TRAITEMENT DU CANCER</b></p> <p>[72] LEE, KWANGHO, KR</p> <p>[72] DUGGIRALA, KRISHNA BABU, KR</p> <p>[72] CHOI, GILDON, KR</p> <p>[72] LEE, YUJIN, KR</p> <p>[72] CHAE, CHONG HAK, KR</p> <p>[72] JUNG, MYOUNG EUN, KR</p> <p>[72] CHO, BYOUNG CHUL, KR</p> <p>[71] KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY, KR</p> <p>[85] 2023-12-29</p> <p>[86] 2022-07-11 (PCT/KR2022/010023)</p> <p>[87] (WO2023/287130)</p> <p>[30] KR (10-2021-0091308) 2021-07-13</p> <p>[30] KR (10-2022-0084115) 2022-07-08</p>
	[21] <b>3,226,003</b> [13] A1	
	<p>[51] <b>Int.Cl. C07K 14/575 (2006.01) A61P 3/04 (2006.01) A61P 1/04 (2006.01) A61P 1/16 (2006.01) A61P 3/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>COMPOSITIONS INCLUDING MULTI-AGONIST PEPTIDES AND METHODS OF MANUFACTURE AND USE</b></p> <p>[54] <b>COMPOSITIONS COMPRENANT DES PEPTIDES MULTI-AGONISTES, PROCEDES DE FABRICATION ET METHODES D'UTILISATION</b></p> <p>[72] RONDINONE, CRISTINA MARTHA, US</p> <p>[72] GHOSH, SOUMITRA S., US</p> <p>[72] DANHO, WALEED, US</p> <p>[71] PEP2TANGO THERAPEUTICS INC., US</p> <p>[85] 2023-12-29</p> <p>[86] 2022-07-15 (PCT/US2022/073793)</p> <p>[87] (WO2023/288313)</p> <p>[30] US (63/222,747) 2021-07-16</p>	[21] <b>3,226,007</b> [13] A1
		<p>[51] <b>Int.Cl. F24F 3/14 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>A DESICCANT DEHUMIDIFIER</b></p> <p>[54] <b>DESHUMIDIFICATEUR DESHYDRATANT</b></p> <p>[72] GUNNARSSON, URBAN, SE</p> <p>[71] MUNTERS EUROPE AKTIEBOLAG, SE</p> <p>[85] 2024-01-02</p> <p>[86] 2022-06-23 (PCT/EP2022/067229)</p> <p>[87] (WO2023/025433)</p> <p>[30] SE (2151015-1) 2021-08-23</p>

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[21] **3,226,010**  
[13] A1

[51] **Int.Cl. C09D 5/00 (2006.01) C09D 5/16 (2006.01)**  
[25] EN  
[54] **COMPOSITION FOR THE PROTECTION AGAINST CORROSION OF AN ARTICLE AND PROCESS FOR PROTECTION THEREOF**  
[54] **COMPOSITION DESTINEE A LA PROTECTION CONTRE LA CORROSION D'UN ARTICLE ET PROCEDE DE PROTECTION ASSOCIE**  
[72] BROESDER, HINDRIK HARM, NL  
[72] SCHUTTE, JAN OTTO, NL  
[72] CUDIC, DINKO, NL  
[72] SALEHPOUR, SOMAIEH, NL  
[71] SEAL FOR LIFE GLOBAL DUTCH HOLDING B.V., NL  
[85] 2024-01-02  
[86] 2022-07-01 (PCT/EP2022/068267)  
[87] (WO2023/275358)  
[30] EP (EP21183367) 2021-07-02

[21] **3,226,011**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 30/02 (2023.01)**  
[25] EN  
[54] **MONITORING PROPERTY AND ANALYSING PERFORMANCE OF A SERVICE BUSINESS**  
[54] **SURVEILLANCE DE BIENS ET ANALYSE DES PERFORMANCES D'UNE ENTREPRISE DE SERVICE**  
[72] HARTWIG, MICHAEL ROY, US  
[72] FIUMARA, ASHLEY BROOKE, US  
[72] RAFFERTY, THOMAS, US  
[71] OPTX SOLUTIONS, LLC, US  
[85] 2023-12-29  
[86] 2022-06-28 (PCT/US2022/035378)  
[87] (WO2023/278490)  
[30] US (17/364,361) 2021-06-30  
[30] US (17/364,509) 2021-06-30  
[30] US (17/364,336) 2021-06-30  
[30] US (17/592,419) 2022-02-03

[21] **3,226,014**  
[13] A1

[51] **Int.Cl. A61P 3/00 (2006.01) A61P 13/00 (2006.01) A61P 15/00 (2006.01) C07D 231/56 (2006.01)**  
[25] EN  
[54] **CHOLINATE OF 2-(1-CYCLOBUTYL-1H-PYRAZOL-4-YL)-5-((1-[2-FLUORO-4-(TRIFLUOROMETHYL)-PHENYL]CYCLOPROPYL)CARBO NYL)AMINO]BENZOIC ACID**  
[54] **CHOLINATE D'ACIDE 2-(1-CYCLOBUTYL-1H-PYRAZOL-4-YL)-5-((1-[2-FLUORO-4-(TRIFLUOROMETHYL)-PHENYL]CYCLOPROPYL)CARBO NYL)AMINO]BENZOIQUE**  
[72] BAEURLE, STEFAN, DE  
[72] LERCHEN, HANS-GEORG, DE  
[72] OLENIK, BRITTA, DE  
[72] LEVILAIN, GUILLAUME, DE  
[72] KEIL, BIRGIT, DE  
[72] DWORACEK, SYLVIA, DE  
[72] ROTTMANN, ANTJE, DE  
[72] ROTGERI, ANDREA, DE  
[72] MELLING, ROBERT CRAIG, GB  
[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2024-01-02  
[86] 2022-07-04 (PCT/EP2022/068421)  
[87] (WO2023/280765)  
[30] EP (21183771.1) 2021-07-05

[21] **3,226,016**  
[13] A1

[51] **Int.Cl. C08L 23/04 (2006.01) C08F 4/00 (2006.01) C08F 10/00 (2006.01)**  
[25] EN  
[54] **POLYETHYLENE FOR USE IN THE PRODUCTION OF CROSSLINKED POLYETHYLENE (PEX)**  
[54] **POLYETHYLENE DESTINE A ETRE UTILISE DANS LA PRODUCTION DE POLYETHYLENE RETICULE (PER)**  
[72] CASCONI, SARA, AT  
[72] POMAKHINA, ELENA, AT  
[71] BOREALIS AG, AT  
[85] 2024-01-02  
[86] 2022-07-07 (PCT/EP2022/068950)  
[87] (WO2023/280997)  
[30] EP (21184421.2) 2021-07-08

[21] **3,226,019**  
[13] A1

[51] **Int.Cl. A61K 36/05 (2006.01) A61K 9/51 (2006.01) A61K 48/00 (2006.01) C12N 15/00 (2006.01) C12N 15/88 (2006.01)**  
[25] EN  
[54] **EXTRACELLULAR VESICLES FROM MICROALGAE, THEIR PREPARATION, AND USES**  
[54] **VESICULES EXTRACELLULAIRES PROVENANT DE MICROALGUES, LEUR PREPARATION ET LEURS UTILISATIONS**  
[72] DRITTANTI, LILA, FR  
[72] VEGA, JUAN PABLO, FR  
[72] PRUVOST, JEREMY, FR  
[72] VEGA, MANUEL, FR  
[71] AGS THERAPEUTICS SAS, FR  
[71] AGS-M SAS, FR  
[71] NANTES UNIVERSITE, FR  
[85] 2024-01-02  
[86] 2022-07-20 (PCT/EP2022/070371)  
[87] (WO2023/001894)  
[30] US (63/223,828) 2021-07-20  
[30] US (63/224,656) 2021-07-22  
[30] US (63/305,230) 2022-01-31

[21] **3,226,020**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2023.01)**  
[25] EN  
[54] **SYSTEMS AND METHOD FOR PROFILING ASSETS OF A SERVICE BUSINESS AND INDICATING A PROFITABILITY OF AN ASSET**  
[54] **SYSTEMES ET PROCEDE DE PROFILAGE D'ACTIFS D'UNE ENTREPRISE DE SERVICE ET D'INDICATION DE LA RENTABILITE D'UN ACTIF**  
[72] FIUMARA, ASHLEY BROOKE, US  
[72] RAFFERTY, THOMAS, US  
[71] OPTX SOLUTIONS, LLC, US  
[85] 2023-12-29  
[86] 2022-06-29 (PCT/US2022/035473)  
[87] (WO2023/278540)  
[30] US (17/364,392) 2021-06-30  
[30] US (17/364,494) 2021-06-30

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[21] **3,226,022**  
[13] A1

[51] **Int.Cl. A61K 31/4162 (2006.01) A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ORAL COMPOSITION COMPRISING A MDM2-ANTAGONIST FOR CANCER THERAPY**

[54] **COMPOSITION ORALE COMPRENANT UN ANTAGONISTE DE MDM2 POUR LA THERAPIE ANTICANCEREUSE**

[72] LAHMAR, MEHDI MOURAD, DE  
[72] GENG, JUNXIAN, US  
[72] GREMLER, ROLF, DE  
[72] PEREZ-PITARCH, ALEJANDRO, DE  
[72] ROHRBACHER, MAREN, DE  
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE

[85] 2024-01-02  
[86] 2022-08-08 (PCT/EP2022/072213)  
[87] (WO2023/016977)  
[30] EP (21190294.5) 2021-08-09  
[30] EP (22156077.4) 2022-02-10  
[30] EP (22175571.3) 2022-05-25

[21] **3,226,024**  
[13] A1

[51] **Int.Cl. A01N 43/00 (2006.01) A01N 43/10 (2006.01) A01N 43/28 (2006.01) A01N 43/40 (2006.01) A01N 43/78 (2006.01) C07D 213/16 (2006.01) C07D 213/44 (2006.01) C07D 213/54 (2006.01) C07D 213/61 (2006.01) C07D 277/24 (2006.01) C07D 277/30 (2006.01) C07D 333/06 (2006.01) C07D 333/24 (2006.01) C07D 333/28 (2006.01)**

[25] EN

[54] **NOVEL DERIVATIVES OF NON-CODED AMINO ACIDS AND THEIR USE AS HERBICIDES**

[54] **NOUVEAUX DERIVES D'ACIDES AMINES NON CODES ET LEUR UTILISATION EN TANT QU'HERBICIDES**

[72] KOZAK, ALEX, IL  
[72] SHAPIRO, ISRAEL, IL  
[71] FORTEPHEST LTD., IL

[85] 2023-12-31  
[86] 2022-07-12 (PCT/IL2022/050749)  
[87] (WO2023/286057)  
[30] US (63/203,169) 2021-07-12

[21] **3,226,028**  
[13] A1

[51] **Int.Cl. D06B 1/02 (2006.01) D06B 3/18 (2006.01) D06B 5/08 (2006.01) D06B 15/04 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR INCREASING COLOURFASTNESS**

[54] **APPAREIL ET PROCEDE D'AUGMENTATION DE LA SOLIDITE DE LA COULEUR**

[72] KEW, SIMON, GB  
[72] BLYTHE, THOMAS, GB  
[72] CHAMBERS, SCOTT, GB  
[72] FORDHAM, KEITH, GB  
[71] ALCHEMIE TECHNOLOGY LIMITED, GB

[85] 2024-01-02  
[86] 2022-07-01 (PCT/GB2022/051704)  
[87] (WO2023/275562)  
[30] GB (2109535.1) 2021-07-01

[21] **3,226,030**  
[13] A1

[51] **Int.Cl. D06B 21/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD RELATING TO TEXTILE DYEING**

[54] **APPAREIL ET PROCEDE SE RAPPORTANT A LA TEINTURE DES TEXTILES**

[72] KEW, SIMON, GB  
[72] BLYTHE, THOMAS, GB  
[72] FORDHAM, KEITH, GB  
[72] CHAMBERS, SCOTT, GB  
[71] ALCHEMIE TECHNOLOGY LIMITED, GB

[85] 2024-01-02  
[86] 2022-07-01 (PCT/GB2022/051705)  
[87] (WO2023/275563)  
[30] GB (2109538.5) 2021-07-01

[21] **3,226,032**  
[13] A1

[51] **Int.Cl. A01J 7/02 (2006.01) A01J 11/06 (2006.01) B01D 29/48 (2006.01) B01D 29/66 (2006.01) B01D 39/10 (2006.01)**

[25] EN

[54] **MILKING DEVICE PROVIDED WITH A MILK FILTER**

[54] **DISPOSITIF DE TRAITE POURVU D'UN FILTRE A LAIT**

[72] MOSTERT, GERARD, NL  
[72] VAN EEDEN, BART, NL  
[71] LELY PATENT N.V., NL

[85] 2024-01-02  
[86] 2022-07-20 (PCT/IB2022/056694)  
[87] (WO2023/007316)  
[30] NL (2028864) 2021-07-28

[21] **3,226,034**  
[13] A1

[51] **Int.Cl. A61K 49/00 (2006.01)**

[25] EN

[54] **PUDEXACIANINIUM FOR NIRF IMAGING**

[54] **PUDEXACIANINIUM POUR IMAGERIE PAR FLUORESCENCE DANS LE PROCHE INFRAROUGE (NIRF)**

[72] SAITO, MASAKO, JP  
[72] KANJI, KOMATSU, JP  
[72] TAKUSAGAWA, SHIN, JP  
[72] DELGADO-HERRERA, LETICIA, US  
[71] ASTELLAS PHARMA INC., JP

[85] 2024-01-02  
[86] 2022-07-27 (PCT/IB2022/056957)  
[87] (WO2023/007404)  
[30] US (63/226,534) 2021-07-28

[21] **3,226,036**  
[13] A1

[51] **Int.Cl. H02J 50/80 (2016.01) A61B 5/256 (2021.01) H02J 7/00 (2006.01) H01F 27/42 (2006.01)**

[25] EN

[54] **A WEARABLE ELECTRONIC DEVICE CHARGING UNIT**

[54] **UNITE DE CHARGE DE DISPOSITIF ELECTRONIQUE A PORTER SUR SOI**

[72] SPECTOR, YUVAL, IL  
[72] BAR-DAVID, ASAF, IL  
[71] RESO-SENSE LTD, IL

[85] 2024-01-02  
[86] 2022-06-30 (PCT/IL2022/050702)  
[87] (WO2023/275874)  
[30] US (63/217,303) 2021-07-01  
[30] US (63/228,624) 2021-08-03  
[30] US (63/273,953) 2021-10-31

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[21] **3,226,039**  
[13] A1

[51] **Int.Cl. A61K 47/69 (2017.01) C08H 8/00 (2010.01) A61K 31/712 (2006.01) C08L 97/02 (2006.01) F26B 3/00 (2006.01) C08B 15/00 (2006.01) C08B 15/05 (2006.01) C08J 5/18 (2006.01)**

[25] EN

[54] **CELLULOSE NANOFIBER (CNF) STABILIZED MEMBRANES AND METHODS OF MAKING THEREOF**

[54] **MEMBRANES STABILISEES A NANOFIBRES DE CELLULOSE (NFC) ET LEURS PROCEDES DE FABRICATION**

[72] MASON, MICHAEL DARIN, US  
[72] HOSSEN, MUHAMMAD RADOWAN, US  
[71] UNIVERSITY OF MAINE SYSTEM BOARD OF TRUSTEES, US  
[85] 2024-01-02  
[86] 2022-08-05 (PCT/US2022/039575)  
[87] (WO2023/014973)  
[30] US (63/229,872) 2021-08-05

[21] **3,226,042**  
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61K 39/215 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **UTILIZATION OF ANTIBODIES TO SHAPE ANTIBODY RESPONSES TO AN ANTIGEN**

[54] **UTILISATION D'ANTICORPS POUR FORMER DES REPNSES D'ANTICORPS A UN ANTIGENE**

[72] MURPHY, ANDREW, US  
[72] KYRATSOUS, CHRISTOS, US  
[72] BAUM, ALINA, US  
[72] PETRO, CHRISTOPHER, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2024-01-02  
[86] 2022-07-01 (PCT/US2022/035968)  
[87] (WO2023/283134)  
[30] US (63/218,486) 2021-07-05

[21] **3,226,047**  
[13] A1

[51] **Int.Cl. G06Q 30/04 (2012.01) G06Q 40/02 (2023.01) G06N 7/00 (2023.01)**

[25] EN

[54] **METHOD, APPARATUS, AND COMPUTER READABLE MEDIUM FOR DYNAMICALLY MODELING A CURRENT PRICE OF AN INVOICE ISSUED BY A SELLER BASED ON REAL-TIME MONITORING OF TRANSACTION DATA ON A COMPUTER NETWORK**

[54] **PROCEDE, APPAREIL ET SUPPORT LISIBLE PAR ORDINATEUR DE MODELISATION DYNAMIQUE D'UN PRIX ACTUEL D'UNE FACTURE EMISE PAR UN VENDEUR SUR LA BASE D'UNE SURVEILLANCE EN TEMPS REEL DE D ONNEES DE TRANSACTION SUR UN RESEAU INFORMATIQUE**

[72] HOPKINS, KEVIN, US  
[71] AGORA INTELLIGENCE, INC., US  
[85] 2024-01-02  
[86] 2022-07-05 (PCT/US2022/036132)  
[87] (WO2023/278896)  
[30] US (63/218,189) 2021-07-02

[21] **3,226,049**  
[13] A1

[51] **Int.Cl. G01N 30/96 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **CHARACTERIZATION OF PROTEINS BY ANION-EXCHANGE CHROMATOGRAPHY MASS SPECTROMETRY (AEX-MS)**

[54] **CARACTERISATION DE PROTEINES PAR SPECTROMETRIE DE MASSE PAR CHROMATOGRAPHIE D'ECHANGE D'ANIONS (AEX-MS)**

[72] LIU, ANITA, US  
[72] WANG, SHUNHAI, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2024-01-02  
[86] 2022-07-12 (PCT/US2022/036868)  
[87] (WO2023/287821)  
[30] US (63/221,447) 2021-07-13  
[30] US (63/305,177) 2022-01-31

[21] **3,226,052**  
[13] A1

[51] **Int.Cl. C07D 271/113 (2006.01) A01N 43/82 (2006.01) A01P 13/00 (2006.01) A01P 21/00 (2006.01)**

[25] EN

[54] **N-(1,3,4-OXADIAZOL-2-YL)PHENYL CARBOXAMIDES AS HERBICIDES**

[54] **N-(1,3,4-OXADIAZOL-2-YL)PHENYL CARBOXAMIDE EN TANT QU'HERBICIDES**

[72] AHRENS, HARTMUT, DE  
[72] KOHN, ARNIM, DE  
[72] JAKOBI, HARALD, DE  
[72] WALDRAFF, CHRISTIAN, DE  
[72] ASMUS, ELISABETH, DE  
[72] BOLLENBACH-WAHL, BIRGIT, DE  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[85] 2024-01-03  
[86] 2022-07-04 (PCT/EP2022/068441)  
[87] (WO2023/280772)  
[30] EP (21184513.6) 2021-07-08

[21] **3,226,054**  
[13] A1

[51] **Int.Cl. C07D 471/08 (2006.01) C07F 15/02 (2006.01) C08F 283/01 (2006.01) C08K 5/00 (2006.01) C09D 167/00 (2006.01)**

[25] EN

[54] **NOVEL BISPIDONE LIGANDS AND TRANSITION METAL COMPLEXES THEREOF**

[54] **NOUVEAUX LIGANDS BISPIDONES ET COMPLEXES DE METAUX DE TRANSITION A BASE DE CEUX-CI**

[72] VERCAEMST, CARL, BE  
[72] DE VREESE, ROB, BE  
[71] UMICORE, BE  
[85] 2024-01-03  
[86] 2022-07-08 (PCT/EP2022/069043)  
[87] (WO2023/281046)  
[30] EP (21184778.5) 2021-07-09  
[30] EP (21192796.7) 2021-08-24



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[21] **3,226,058**  
[13] A1

[51] **Int.Cl. A61P 31/18 (2006.01) C07C 311/00 (2006.01) C07D 205/04 (2006.01)**

[25] EN

[54] **TREATMENT FOR CRYOPYRIN ASSOCIATED PERIODIC SYNDROMES (CAPS)**

[54] **TRAITEMENT DES SYNDROMES PERIODIQUES ASSOCIES A LA CRYOPYRINE (CAPS)**

[72] AGARWAL, SAMEER, IN

[72] PARMAR, DEVEN V., IN

[72] PHILIP, BINU, IN

[72] SHARMA, RAJIV, IN

[72] JAIN, MUKUL, IN

[72] CHATTERJEE, ABHIJIT, IN

[71] ZYDUS LIFESCIENCES LIMITED, IN

[85] 2024-01-03

[86] 2022-07-08 (PCT/IB2022/056329)

[87] (WO2023/281455)

[30] IN (202121030625) 2021-07-08

[21] **3,226,059**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01)**

[25] EN

[54] **ANTI-NECTIN4 ANTIBODIES AND MULTI-SPECIFIC PROTEIN COMPLEXES COMPRISING SUCH**

[54] **ANTICORPS ANTI-NECTIN4 ET COMPLEXES DE PROTEINES MULTI-SPECIFIQUES LES COMPRENANT**

[72] ZHAO, KEHAO, US

[72] CHEN, YAN, US

[72] NGUYEN, JENNA, US

[72] SUBRAMANIAM, SUGA, US

[72] JIANG, NING, US

[71] ELPIS BIOPHARMACEUTICALS, US

[85] 2023-12-29

[86] 2022-06-28 (PCT/US2022/035363)

[87] (WO2023/278480)

[30] US (63/216,276) 2021-06-29

[21] **3,226,060**  
[13] A1

[51] **Int.Cl. C25B 1/04 (2021.01) C25B 11/052 (2021.01) C25B 11/054 (2021.01) C25B 11/055 (2021.01) C25B 11/061 (2021.01) C25B 11/075 (2021.01) B01J 23/74 (2006.01)**

[25] EN

[54] **UNIVERSAL ONE-STEP METHOD TO MAKE FE-BASED (OXY)HYDROXIDES AS EFFICIENT OER CATALYSTS FOR SEAWATER ELECTROLYSIS**

[54] **PROCEDE EN UNE ETAPE UNIVERSEL POUR FABRIQUER DES (OXY)HYDROXYDES A BASE DE FE EN TANT QUE CATALYSEURS OER EFFICACES POUR L'ELECTROLYSE D'EAU DE MER**

[72] REN, ZHIFENG, US

[72] YU, LUO, US

[72] NING, MINGHUI, US

[71] UNIVERSITY OF HOUSTON SYSTEM, US

[85] 2023-12-29

[86] 2022-06-03 (PCT/US2022/032224)

[87] (WO2023/283005)

[30] US (63/219,788) 2021-07-08

[21] **3,226,062**  
[13] A1

[51] **Int.Cl. H01H 50/20 (2006.01) H01H 1/62 (2006.01)**

[25] EN

[54] **RELAY SWITCH**

[54] **COMMUTATEUR DE RELAIS**

[72] HERRMANN, MARCUS, CN

[71] JOHNSON ELECTRIC GERMANY GMBH & CO. KG, DE

[85] 2023-12-29

[86] 2022-02-01 (PCT/EP2022/052369)

[87] (WO2023/147847)

[21] **3,226,064**  
[13] A1

[51] **Int.Cl. G16H 20/40 (2018.01) G16H 40/40 (2018.01)**

[25] EN

[54] **DETERMINING A MODALITY OF AN EXTRACORPOREAL BLOOD CIRCUIT**

[54] **DETERMINATION D'UNE MODALITE D'UN CIRCUIT SANGUIN EXTRACORPOREL**

[72] DOYLE, MATTHEW J., US

[71] FRESINIUS MEDICAL CARE HOLDINGS, INC., US

[85] 2024-01-03

[86] 2022-06-23 (PCT/US2022/034715)

[87] (WO2023/283054)

[30] US (17/369,098) 2021-07-07

[21] **3,226,065**  
[13] A1

[51] **Int.Cl. H01P 3/123 (2006.01) E21B 7/15 (2006.01) H01P 11/00 (2006.01)**

[25] EN

[54] **MULTI-PIECE CORRUGATED WAVEGUIDE**

[54] **GUIDE D'ONDES ONDULE MULTIPIECE**

[72] PHAN, HY, US

[72] HOUDE, MATTHEW, US

[72] ARDOIN, CURTIS, US

[72] ARAQUE, CARLOS, US

[72] LAMB, JUSTIN, US

[72] ARNOW, DENNIS, US

[72] OLIVER, RAY, IE

[71] QUAISE ENERGY, INC., US

[85] 2024-01-03

[86] 2022-07-05 (PCT/US2022/036078)

[87] (WO2023/283167)

[30] US (17/367,800) 2021-07-06

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[21] **3,226,068**  
[13] A1

[51] **Int.Cl. A61N 1/02 (2006.01) A61B 5/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROVIDING PERSONALIZED TARGETED NON-INVASIVE STIMULATION TO A BRAIN NETWORK**

[54] **SYSTEMES ET PROCEDES POUR FOURNIR UNE STIMULATION NON INVASIVE CIBLEE PERSONNALISEE A UN RESEAU CEREBRAL**

[72] KOCH, GIACOMO, IT

[72] SANTARNECCHI, EMILIANO, US

[71] SINAPTICA THERAPEUTICS, INC., US

[85] 2024-01-03

[86] 2022-07-05 (PCT/US2022/036115)

[87] (WO2023/283187)

[30] US (63/218,625) 2021-07-06

[30] US (63/277,086) 2021-11-08

[21] **3,226,069**  
[13] A1

[51] **Int.Cl. G01W 1/14 (2006.01) A01G 25/16 (2006.01)**

[25] EN

[54] **SYSTEMS AND DEVICES FOR MONITORING PRECIPITATION, AND METHODS RELATED THERETO**

[54] **SYSTEMES ET DISPOSITIFS DE SURVEILLANCE DE PRECIPITATIONS, ET PROCEDES ASSOCIES**

[72] GANIG, NICHOLAS, US

[72] GAYNOR, ADAM, US

[72] KIM, JONGJIN, US

[72] MIKELSON, CHRIS, US

[72] NICOZISIN, DAVID, US

[72] PETERSDORF, AARON, US

[72] RODRIGUEZ, SAMUEL, US

[71] CLIMATE LLC, US

[85] 2024-01-03

[86] 2022-07-05 (PCT/US2022/036141)

[87] (WO2023/283198)

[30] US (63/219,186) 2021-07-07

[21] **3,226,109**  
[13] A1

[51] **Int.Cl. A47G 19/18 (2006.01) B65D 25/38 (2006.01) B65D 83/00 (2006.01) B65D 85/72 (2006.01) B67D 1/00 (2006.01)**

[25] EN

[54] **CONDIMENT DISPENSING APPARATUS, SYSTEM, AND METHODS OF USE**

[54] **APPAREIL DE DISTRIBUTION DE CONDIMENTS, SYSTEME ET PROCEDES D'UTILISATION**

[72] KALYVIOTI, IVI, NL

[72] LEECH, GREGG TIMOTHY FRANCIS, GB

[72] BERTENS-VLEMS, KIM, NL

[72] OBERDORF, JOSEPH ELISABETH, NL

[71] H.J. HEINZ COMPANY BRANDS LLC, US

[85] 2024-01-03

[86] 2022-07-06 (PCT/US2022/036168)

[87] (WO2023/283212)

[30] US (63/218,826) 2021-07-06

[30] US (63/218,838) 2021-07-06

[21] **3,226,128**  
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H01M 10/04 (2006.01)**

[25] EN

[54] **BIDIRECTIONAL ELECTRICAL SYSTEMS WITH HIGH-VOLTAGE VERSATILE BATTERY PACKS**

[54] **SYSTEMES ELECTRIQUES BIDIRECTIONNELS AVEC BLOCS-BATTERIES POLYVALENTS A HAUTE TENSION**

[72] ZHOU, RUI, US

[72] KECHMIR, MOHAMMED, US

[72] EVANS, RHODRI, US

[72] TINNEMEYER, JOERN, US

[71] ENERSYS DELAWARE INC., US

[85] 2024-01-03

[86] 2022-07-06 (PCT/US2022/036197)

[87] (WO2023/283229)

[30] US (63/219,098) 2021-07-07

[21] **3,226,129**  
[13] A1

[51] **Int.Cl. C01B 32/312 (2017.01) C01B 32/30 (2017.01) C10B 53/02 (2006.01) C10B 53/00 (2006.01)**

[25] EN

[54] **LOW-WATER-INTENSITY BIOCARBON PRODUCTS, AND PROCESSES FOR PRODUCING LOW-WATER-INTENSITY BIOCARBON PRODUCTS**

[54] **PRODUITS BIOCARBONES A FAIBLE INTENSITE D'EAU ET PROCEDES DE PRODUCTION DE PRODUITS BIOCARBONES A FAIBLE INTENSITE D'EAU**

[72] SLACK, DUSTIN, US

[72] DAUGAARD, DAREN, US

[72] MENNELL, JAMES A., US

[71] CARBON TECHNOLOGY HOLDINGS, LLC, US

[85] 2023-12-29

[86] 2022-07-07 (PCT/US2022/036282)

[87] (WO2023/283284)

[30] US (63/219,267) 2021-07-07

[30] US (63/219,781) 2021-07-08

[21] **3,226,130**  
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/44 (2006.01) C12N 15/87 (2006.01)**

[25] EN

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

[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DE CANCERS**

[72] BOMMIREDDYVENKATA, VENUGOPALAREDDY, US

[72] ESCOBAR-HOYOS, LUISA, US

[72] QUIJANO, ELIAS, US

[72] GLAZER, PETER, US

[72] TURNER, BRUCE C., US

[72] LUDWIG, DALE, US

[71] YALE UNIVERSITY, US

[71] GENNAO BIO, INC., US

[85] 2023-12-29

[86] 2022-07-05 (PCT/US2022/036143)

[87] (WO2023/278897)

[30] US (63/218,970) 2021-07-07

[30] US (63/239,372) 2021-08-31

[30] US (63/297,538) 2022-01-07

[30] US (63/297,542) 2022-01-07

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[21] **3,226,131**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) G01N 21/64 (2006.01)**  
[25] EN  
[54] **FLOW CELL IMAGING SYSTEMS AND METHODS, AND FLOW CELLS AND OTHER SUBSTRATES FOR USE IN THE SAME**  
[54] **SYSTEMES ET PROCEDES D'IMAGERIE DE CYTOMETRIE EN FLUX, ET CYTOMETRIE EN FLUX ET AUTRES SUBSTRATS DESTINES A ETRE UTILISES DANS CES SYSTEMES ET PROCEDES**  
[72] LUNDQUIST, PAUL, US  
[72] ULRICH, CRAIG, US  
[72] CHIRITA, RAZVAN, US  
[72] TSPURYK, ANDRIY, US  
[72] YEN, CHINTANG, US  
[71] MGI TECH CO., LTD., CN  
[85] 2024-01-04  
[86] 2022-08-08 (PCT/CN2022/110819)  
[87] (WO2023/016394)  
[30] US (63/231,488) 2021-08-10

[21] **3,226,132**  
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**  
[25] EN  
[54] **METHODS FOR DETERMINING VELOCITY OF TUMOR GROWTH**  
[54] **PROCEDES POUR DETERMINER LA VITESSE DE CROISSANCE TUMORALE**  
[72] SHARMA, SHRUTI, US  
[72] ZIMMERMANN, BERNHARD, US  
[72] SETHI, HIMANSHU, US  
[72] ALESHIN, ALEXEY, US  
[72] SHCHEGROVA, SVETLANA, US  
[71] NATERA, INC., US  
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[87] (WO2022/225933)  
[30] US (63/178,349) 2021-04-22

[21] **3,226,133**  
[13] A1

[51] **Int.Cl. C08L 23/08 (2006.01) C08J 9/10 (2006.01) C08K 5/14 (2006.01) C08K 5/23 (2006.01) C08K 5/435 (2006.01) C08L 91/06 (2006.01)**  
[25] EN  
[54] **THERMALLY EXPANDABLE COMPOSITIONS COMPRISING WAX**  
[54] **COMPOSITIONS THERMO-EXPANSIBLES COMPRENANT DE LA CIRE**  
[72] KLOTZ, MICHAEL, DE  
[72] RAPPMANN, KLAUS, DE  
[72] SAUER, RALF, DE  
[72] CAPPEL, FIONA, DE  
[71] HENKEL AG & CO. KGAA, DE  
[85] 2024-01-04  
[86] 2022-06-21 (PCT/EP2022/066800)  
[87] (WO2023/280561)  
[30] EP (21183864.4) 2021-07-06

[21] **3,226,134**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A61K 38/17 (2006.01) A61P 19/00 (2006.01) A61P 19/02 (2006.01) A61P 43/00 (2006.01) C07K 14/71 (2006.01)**  
[25] EN  
[54] **MEANS AND METHODS FOR THE TREATMENT OF CALCIUM CRYSTAL DEPOSITION DISEASES**  
[54] **MOYENS ET METHODES POUR LE TRAITEMENT DE MALADIES LIEES AU DEPOT DE CRISTAUX DE CALCIUM**  
[72] WELTING, TIM JOHANNES MARIA, NL  
[72] VAN DEN AKKER, GUUS GIJSBERTUS HUBERT, NL  
[72] SCHURGERS, LEON JOHANNES, NL  
[72] VAN RHIJN, LODEWIJK WILLEM, NL  
[71] UNIVERSITEIT MAASTRICHT, NL  
[71] ACADEMISCH ZIEKENHUIS MAASTRICHT, NL  
[85] 2024-01-04  
[86] 2022-06-27 (PCT/EP2022/067584)  
[87] (WO2023/280615)  
[30] EP (21183609.3) 2021-07-05

[21] **3,226,135**  
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) G01N 21/64 (2006.01) G01N 33/542 (2006.01) G01N 33/68 (2006.01)**  
[25] EN  
[54] **PHAGE-BASED METHOD FOR DETECTING BIOMARKERS**  
[54] **PROCEDE BASE SUR LES PHAGES POUR LA DETECTION DE BIOMARQUEURS**  
[72] KULPAKKO, JANNE, FI  
[72] LEHTI, VILHELMIINA, FI  
[72] TEIMONEN, TIMO, FI  
[72] RANNIKKO, ANTTI, FI  
[71] AQSENS HEALTH OY, FI  
[85] 2024-01-04  
[86] 2022-07-05 (PCT/FI2022/050490)  
[87] (WO2023/281166)  
[30] EP (21183681.2) 2021-07-05

[21] **3,226,136**  
[13] A1

[51] **Int.Cl. H02J 3/38 (2006.01) H02M 7/49 (2007.01)**  
[25] EN  
[54] **SYSTEMS, DEVICES, AND METHODS FOR MODULE-BASED CASCADED ENERGY SYSTEMS CONFIGURED TO INTERFACE WITH RENEWABLE ENERGY SOURCES**  
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES POUR DES SYSTEMES D'ENERGIE EN CASCADE REPOSANT SUR DES MODULES CONFIGURES POUR SERVIR D'INTERFACE AVEC DES SOURCES D'ENERGIE RENOUVELABLE**  
[72] SLEPCHENKOV, MIKHAIL, US  
[72] NADERI, ROOZBEH, US  
[71] TAE TECHNOLOGIES, INC., US  
[85] 2024-01-03  
[86] 2022-07-06 (PCT/US2022/036246)  
[87] (WO2023/283260)  
[30] US (63/219,021) 2021-07-07  
[30] US (63/227,646) 2021-07-30  
[30] US (63/243,061) 2021-09-10

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[21] **3,226,137**  
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[51] **Int.Cl. H02N 2/18 (2006.01)**  
[25] EN  
[54] **A METHOD OF GENERATING ELECTRICAL ENERGY**  
[54] **PROCEDE DE GENERATION D'ENERGIE ELECTRIQUE PAR IMPACT D'UN ELEMENT PIEZOELECTRIQUE**  
[72] AKINBI, ADEBAYO, NG  
[71] AKINBI, ADEBAYO, NG  
[85] 2024-01-04  
[86] 2021-07-05 (PCT/IB2021/055993)  
[87] (WO2023/281293)

[21] **3,226,138**  
[13] A1

[51] **Int.Cl. B60L 53/31 (2019.01) B60L 53/53 (2019.01) B60L 53/67 (2019.01)**  
[25] EN  
[54] **DIRECT CURRENT FAST CHARGING SYSTEMS WITH GRID TIED ENERGY STORAGE SYSTEMS**  
[54] **SYSTEMES DE CHARGE RAPIDE A COURANT CONTINU AVEC SYSTEMES DE STOCKAGE D'ENERGIE RELIES AU RESEAU ELECTRIQUE**  
[72] ZHOU, RUI, US  
[72] KECHMIR, MOHAMMED, US  
[72] PANT, PRADEEP, US  
[71] ENERSYS DELAWARE INC., US  
[85] 2024-01-03  
[86] 2022-07-07 (PCT/US2022/036290)  
[87] (WO2023/283288)  
[30] US (17/370,228) 2021-07-08

[21] **3,226,139**  
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01)**  
[25] EN  
[54] **SPRAY MONITORING SYSTEMS, DEVICES, AND METHODS**  
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE SURVEILLANCE DE PULVERISATION**  
[72] MAURER, GARRETT, US  
[72] HEILMAN, JOSEPH A, US  
[71] INTELLIGENT AGRICULTURAL SOLUTIONS LLC, US  
[85] 2024-01-04  
[86] 2022-06-24 (PCT/IB2022/055864)  
[87] (WO2023/002273)  
[30] US (63/224,127) 2021-07-21

[21] **3,226,140**  
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01)**  
[25] EN  
[54] **MAGNETIC INDEXING OF AGRICULTURAL SENSORS**  
[54] **INDEXATION MAGNETIQUE DE CAPTEURS AGRICOLES**  
[72] EICKHOFF, ROSS, US  
[72] BJERTNESS, DAN, US  
[72] WOOD, DAN, US  
[71] INTELLIGENT AGRICULTURAL SOLUTIONS LLC, US  
[85] 2024-01-04  
[86] 2022-06-24 (PCT/IB2022/055865)  
[87] (WO2023/002274)  
[30] US (63/224,124) 2021-07-21

[21] **3,226,141**  
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01)**  
[25] EN  
[54] **SPRAY NOZZLE ERROR DETECTION**  
[54] **DETECTION D'ERREUR DE BUSE DE PULVERISATION**  
[72] MAURER, GARRETT, US  
[72] HEILMAN, JOSEPH A, US  
[71] INTELLIGENT AGRICULTURAL SOLUTIONS LLC, US  
[85] 2024-01-04  
[86] 2022-06-24 (PCT/IB2022/055866)  
[87] (WO2023/002275)  
[30] US (63/224,121) 2021-07-21

[21] **3,226,142**  
[13] A1

[51] **Int.Cl. A61F 7/12 (2006.01) A42B 1/008 (2021.01) A61F 7/02 (2006.01) F25D 3/12 (2006.01)**  
[25] EN  
[54] **PATIENT TARGETED TEMPERATURE MANAGEMENT DEVICE AND METHOD**  
[54] **DISPOSITIF ET PROCEDE DE GESTION DE LA TEMPERATURE CIBLEE D'UN PATIENT**  
[72] BHINDER, VIKRAM SINGH, US  
[71] BHINDER, VIKRAM SINGH, US  
[85] 2024-01-04  
[86] 2022-06-22 (PCT/US2022/034496)  
[87] (WO2023/283050)  
[30] US (17/370,143) 2021-07-08

[21] **3,226,144**  
[13] A1

[51] **Int.Cl. A01C 7/20 (2006.01)**  
[25] EN  
[54] **AERODYNAMIC AND CENTRIFUGAL SEED ORIENTATION SYSTEM FOR AGRICULTURAL PLANTERS**  
[54] **SYSTEME D'ORIENTATION DE GRAINES AERODYNAMIQUE ET CENTRIFUGE POUR PLANTEUSES AGRICOLES**  
[72] STRANG, KEITH, US  
[72] DILLE, MITCHELL R, US  
[71] PRECISION PLANTING LLC, US  
[85] 2024-01-04  
[86] 2022-07-07 (PCT/IB2022/056294)  
[87] (WO2023/007284)  
[30] US (17/387,778) 2021-07-28

[21] **3,226,145**  
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01)**  
[25] EN  
[54] **CROP SPRAYERS, LIQUID DISTRIBUTION SYSTEMS FOR CROP SPRAYERS, AND RELATED METHODS**  
[54] **PULVERISATEURS POUR CULTURES, SYSTEMES DE DISTRIBUTION DE LIQUIDE POUR PULVERISATEURS POUR CULTURES ET PROCEDES ASSOCIES**  
[72] SNYDER, TODD BRANDON, US  
[72] ANDERSON, JOSEPH PAUL, US  
[72] SLAWSON, JAMES MCGRATH, US  
[71] AGCO CORPORATION, US  
[85] 2024-01-04  
[86] 2022-07-27 (PCT/IB2022/056962)  
[87] (WO2023/037176)  
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[13] A1

[51] **Int.Cl. A61N 1/05 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **ELECTRODE LEADS HAVING MULTI-APPLICATION HELICAL NERVE CUFFS AND ASSOCIATED SYSTEMS AND METHODS**

[54] **FILS POUR ELECTRODE A MANCHON HELICOIDE MULTI-APPLICATIONS ET SYSTEMES ET PROCEDES ASSOCIES**

[72] BRANDT, WILLIAM ANDREW, US

[72] DEARDEN, BRIAN RALPH, US

[71] THE ALFRED E. MANN FOUNDATION FOR SCIENTIFIC RESEARCH, US

[85] 2024-01-04

[86] 2021-09-01 (PCT/US2021/048585)

[87] (WO2023/282922)

[30] US (63/220,007) 2021-07-09

[21] **3,226,147**  
[13] A1

[51] **Int.Cl. C12N 5/14 (2006.01) A01H 1/00 (2006.01) C07K 14/325 (2006.01) A01N 63/00 (2020.01) C12N 15/32 (2006.01)**

[25] EN

[54] **NOVEL INSECT INHIBITORY PROTEINS**

[54] **NOUVELLES PROTEINES INSECTICIDES**

[72] BOWEN, DAVID J., US

[72] CHAY, CATHERINE A., US

[72] HOWE, ARLENE R., US

[72] WEGENER, KIMBERLY M., US

[71] MONSANTO TECHNOLOGY LLC, US

[85] 2024-01-04

[86] 2022-06-30 (PCT/US2022/035787)

[87] (WO2023/283103)

[30] US (63/219,604) 2021-07-08

[30] US (63/348,278) 2022-06-02

[21] **3,226,148**  
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01) G06N 20/00 (2019.01)**

[25] EN

[54] **CYBER SECURITY SYSTEM UTILIZING INTERACTIONS BETWEEN DETECTED AND HYPOTHESIZE CYBER-INCIDENTS**

[54] **SYSTEME DE CYBERSECURITE UTILISANT DES INTERACTIONS ENTRE DES CYBER-INCIDENTS DETECTES ET HYPOTHETIQUES**

[72] FELLOWS, SIMON DAVID

[72] LINCOLN, GB

[72] BAZALGETTE, TIMOTHY OWEN, GB

[72] MARSENIC, MARKO, GB

[72] HUMPHREY, DICKON MURRAY, GB

[71] DARKTRACE HOLDINGS LIMITED, GB

[85] 2024-01-03

[86] 2022-07-07 (PCT/US2022/036385)

[87] (WO2023/283356)

[30] US (63/219,026) 2021-07-07

[30] US (63/274,376) 2021-11-01

[30] US (63/317,157) 2022-03-07

[21] **3,226,149**  
[13] A1

[51] **Int.Cl. C08G 18/08 (2006.01) C08G 18/22 (2006.01) C08J 9/00 (2006.01) C08G 18/00 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL COPPER BASED POLYURETHANE**

[54] **POLYURETHANE ANTIMICROBIEN A BASE DE CUIVRE**

[72] KANMUKHLA, VIKRAM, US

[72] SALVATORI, RACHEL SARAH, US

[71] CUPRON INC., US

[85] 2024-01-04

[86] 2022-07-07 (PCT/US2022/036379)

[87] (WO2023/283350)

[30] US (63/219,051) 2021-07-07

[21] **3,226,150**  
[13] A1

[51] **Int.Cl. A23L 21/25 (2016.01) A23L 27/10 (2016.01) A23L 27/20 (2016.01) A23L 27/30 (2016.01)**

[25] EN

[54] **PLANT BASED HONEY COMPOSITION**

[54] **COMPOSITION DE MIEL A BASE DE PLANTE**

[72] SCHALLER, AARON M., US

[72] MANDICH, DARKO, US

[71] MELIBIO, INC., US

[85] 2024-01-04

[86] 2022-07-07 (PCT/US2022/036398)

[87] (WO2023/283366)

[30] US (63/219,000) 2021-07-07

[21] **3,226,153**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS, METHODS AND SYSTEMS FOR AEROSOL DRUG DELIVERY**

[54] **COMPOSITIONS, METHODES ET SYSTEMES POUR L'ADMINISTRATION D'UN MEDICAMENT EN AEROSOL**

[72] JOSHI, VIDYA, US

[72] ARCHBELL, JAMES, US

[72] LACHACZ, KELLISA, US

[72] LAMPA, CHARINA, US

[72] MELLO, LAUREN, US

[72] GUTIERREZ, GERTRUDE, US

[72] LECHUGA-BALLESTEROS, DAVID, US

[72] TAN, PENNY, US

[72] RIEBE, MICHAEL, US

[71] ASTRAZENECA PHARMACEUTICALS LP, US

[85] 2024-01-04

[86] 2022-07-08 (PCT/US2022/036542)

[87] (WO2023/283438)

[30] US (63/220,362) 2021-07-09

[30] US (63/282,356) 2021-11-23

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[21] **3,226,155**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS, METHODS AND SYSTEMS FOR AEROSOL DRUG DELIVERY**  
[54] **COMPOSITIONS, METHODES ET SYSTEMES POUR L'ADMINISTRATION D'UN MEDICAMENT EN AEROSOL**  
[72] JOSHI, VIDYA, US  
[72] ARCHBELL, JAMES, US  
[72] LACHACZ, KELLISA, US  
[72] LAMPA, CHARINA, US  
[72] MELLO, LAUREN, US  
[72] GUTIERREZ, GERTRUDE, US  
[72] LECHUGA-BALLESTEROS, DAVID, US  
[72] TAN, PENNY, US  
[72] RIEBE, MICHAEL, US  
[71] ASTRAZENECA  
PHARMACEUTICALS LP, US  
[85] 2024-01-04  
[86] 2022-07-08 (PCT/US2022/036548)  
[87] (WO2023/283441)  
[30] US (63/220,362) 2021-07-09  
[30] US (63/282,356) 2021-11-23

[21] **3,226,156**  
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61K 45/06 (2006.01) A61P 35/04 (2006.01)**  
[25] EN  
[54] **METHODS OF TREATING ESTROGEN RECEPTOR-ASSOCIATED DISEASES**  
[54] **METHODES DE TRAITEMENT DE MALADIES ASSOCIEES AU RECEPTEUR DES OESTROGENES**  
[72] HARMON, CYRUS L., US  
[72] KUSHNER, PETER J., US  
[72] MYLES, DAVID C., US  
[72] GALLAGHER, LESLIE HODGES, US  
[71] OLEMA PHARMACEUTICALS, INC., US  
[85] 2024-01-04  
[86] 2022-07-07 (PCT/US2022/036351)  
[87] (WO2023/283329)  
[30] US (63/219,802) 2021-07-08  
[30] US (63/278,526) 2021-11-12

[21] **3,226,158**  
[13] A1

[51] **Int.Cl. C07D 213/64 (2006.01) A61K 31/444 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/513 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 213/72 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01)**  
[25] EN  
[54] **PYRIDINONE MK2 INHIBITORS AND USES THEREOF**  
[54] **INHIBITEURS DE MK2 PYRIDINONE ET LEURS UTILISATIONS**  
[72] HOFFMAN, ROBERT L., US  
[72] TRZOSS, LYNNIE, US  
[72] DONG, QING, US  
[72] KALDOR, STEPHEN W.(DECEASED), US  
[71] XINTHERA, INC., US  
[85] 2024-01-04  
[86] 2022-07-07 (PCT/US2022/036362)  
[87] (WO2023/283338)  
[30] US (63/220,322) 2021-07-09  
[30] US (63/340,079) 2022-05-10

[21] **3,226,161**  
[13] A1

[51] **Int.Cl. G16H 20/40 (2018.01) G16H 40/63 (2018.01) G16H 40/67 (2018.01) G16H 50/20 (2018.01)**  
[25] EN  
[54] **DYNAMIC SENSING AND INTERVENTION SYSTEM**  
[54] **SYSTEME DE DETECTION ET D'INTERVENTION DYNAMIQUE**  
[72] VAN ANDEL, DAVE, US  
[72] BRINCAT, MARK, GB  
[72] SPOONER, TED, US  
[71] ZIMMER US, INC., US  
[85] 2024-01-04  
[86] 2022-07-15 (PCT/US2022/037284)  
[87] (WO2023/288060)  
[30] US (63/222,665) 2021-07-16

[21] **3,226,162**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4523 (2006.01) A61K 31/454 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **ARYL COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THAT MODULATE IKZF2**  
[54] **COMPOSES ARYLE ET COMPOSITIONS PHARMACEUTIQUES MODULANT L'IKZF2**  
[72] YANG, PENGYU, US  
[72] BAILEY, SIMON, US  
[71] PLEXIUM, INC., US  
[85] 2024-01-03  
[86] 2022-07-08 (PCT/US2022/036511)  
[87] (WO2023/283425)  
[30] US (63/220,323) 2021-07-09  
[30] US (63/314,992) 2022-02-28

[21] **3,226,163**  
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 5/0783 (2010.01) A61K 38/20 (2006.01) A61K 48/00 (2006.01) C07K 14/705 (2006.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR USE IN CELL THERAPY OF NEOPLASTIC DISEASE**  
[54] **METHODES ET COMPOSITIONS DESTINEES A ETRE UTILISEES DANS LA THERAPIE CELLULAIRE CONTRE LA MALADIE NEOPLASIQUE**  
[72] KOCHER, CHRISTINA, US  
[72] MURPHY, RICHARD B., US  
[72] OFT, MARTIN, US  
[72] PENAFLOR-ASPURIA, PAUL-JOSEPH, US  
[71] SYNTHEKINE, INC., US  
[85] 2024-01-04  
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[87] (WO2023/288283)  
[30] US (63/221,857) 2021-07-14

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[51] **Int.Cl. B01J 38/48 (2006.01) B01J 37/02 (2006.01) B01J 38/00 (2006.01) C25B 15/00 (2006.01) C25B 15/08 (2006.01)**

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[54] **IN SITU CATALYST DEPOSITION AND UTILIZATION**

[54] **DEPOT ET UTILISATION DE CATALYSEUR IN SITU**

[72] DAUGHERTY, MARK ALAN, US

[72] LEONARD, KEVIN CHARLES, US

[72] LARSON, TIMOTHY ROTERMUND, US

[72] BARFOROUGH, JOSEPH MOHAMMAD, US

[71] AVIUM LLC, US

[85] 2024-01-04

[86] 2022-07-06 (PCT/US2022/073469)

[87] (WO2023/283580)

[30] US (63/218,681) 2021-07-06

[21] **3,226,168**  
[13] A1

[51] **Int.Cl. F03G 7/06 (2006.01) H02K 7/18 (2006.01) H05B 3/00 (2006.01)**

[25] EN

[54] **RENEWABLE ENERGY GENERATING SYSTEM & METHOD**

[54] **SYSTEME ET PROCEDE DE PRODUCTION D'ENERGIE RENOUVELABLE**

[72] LIFSHITS, GARY, CA

[71] BEYOND RENEWABLES INC., CA

[85] 2024-01-05

[86] 2022-07-07 (PCT/CA2022/051069)

[87] (WO2023/279208)

[30] US (63/219,028) 2021-07-07

[30] US (63/358,855) 2022-07-06

[21] **3,226,172**  
[13] A1

[51] **Int.Cl. G16B 15/30 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ARTIFICIAL INTELLIGENCE-GUIDED BIOMOLECULE DESIGN AND ASSESSMENT**

[54] **SYSTEMES ET PROCEDES DE CONCEPTION ET D'EVALUATION DE BIOMOLECULES GUIDEES PAR INTELLIGENCE ARTIFICIELLE**

[72] LANIADO, JOSHUA, US

[72] JORDA, JULIEN, US

[72] MALAGO, MATTHIAS MARIA ALESSANDRO, US

[72] DUPLAY, THIBAUT MARIE, US

[72] EL HIBOURI, MOHAMED, US

[72] BAREL, LISA JULIETTE MADELEINE, US

[72] ANSARI, RAMIN, US

[71] PYTHIA LABS, INC., US

[85] 2024-01-03

[86] 2022-07-22 (PCT/US2022/038014)

[87] (WO2023/004116)

[30] US (63/224,801) 2021-07-22

[30] US (17/384,104) 2021-07-23

[30] US (63/353,481) 2022-06-17

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[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/107 (2006.01) B29C 64/10 (2017.01) B01F 23/40 (2022.01) A61K 9/16 (2006.01)**

[25] EN

[54] **SPRAYED MULTI ADSORBED-DROPLET REPOSING TECHNOLOGY (SMART)**

[54] **TECHNOLOGIE DE TRANSPOSITION DE GOUTTELETTES MULTI-ADSORBEES PULVERISEES (INTELLIGENTE)**

[72] MANIRUZZAMAN, MOHAMMED, US

[72] WANG, JIAWEI, US

[72] AGHDA, NILOOFAR HESHMATI, US

[72] ZHANG, YU, US

[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2024-01-04

[86] 2022-07-07 (PCT/US2022/036336)

[87] (WO2023/283320)

[30] US (63/219,258) 2021-07-07

[21] **3,226,175**  
[13] A1

[51] **Int.Cl. H02G 1/08 (2006.01) F16L 7/00 (2006.01) G02B 6/50 (2006.01) H02G 3/38 (2006.01) H02G 9/06 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR INSTALLING CABLES, SUCH AS FIBER OPTIC CABLES INCLUDING ASSOCIATED SENSORS, IN TUBULAR STRUCTURES SUCH AS A PIPELINES**

[54] **APPAREIL ET PROCEDE POUR INSTALLER DES CABLES, TELS QUE DES CABLES A FIBRES OPTIQUES COMPRENANT DES CAPTEURS ASSOCIES, DANS DES STRUCTURES TUBULAIRES TELLES QUE DES CONDUITES**

[72] OHODNICKI, PAUL R., US

[72] WEISENBERG, KENT, US

[72] SYED, IBRAHIM, US

[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US

[71] BRAINDRIP, LLC, US

[85] 2024-01-03

[86] 2022-08-12 (PCT/US2022/040175)

[87] (WO2023/064030)

[30] US (63/262,411) 2021-10-12

[21] **3,226,176**  
[13] A1

[51] **Int.Cl. A61K 38/08 (2019.01) A61K 38/20 (2006.01) A61P 3/10 (2006.01) A61P 13/12 (2006.01)**

[25] EN

[54] **ILIRA DERIVED PEPTIDES FOR TREATMENT OF DIABETIC NEPHROPATHY**

[54] **PEPTIDES DERIVES D'ILIRA POUR LE TRAITEMENT D'UNE NEPHROPATHIE DIABETIQUE**

[72] STEINESS, EVA, DK

[71] SERODUS APS, DK

[85] 2024-01-05

[86] 2021-07-13 (PCT/EP2021/069450)

[87] (WO2023/284947)

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[21] **3,226,179**  
[13] A1

[51] **Int.Cl. G01S 5/02 (2010.01) H04W 4/02 (2018.01)**

[25] EN

[54] **WIRELESS REALTIME POSITIONING SYSTEM**

[54] **SYSTEME DE POSITIONNEMENT SANS FIL EN TEMPS REEL**

[72] DACKEFJORD, HAKAN, SE

[71] NIDA TECH SWEDEN AB, SE

[85] 2024-01-05

[86] 2022-06-17 (PCT/EP2022/066553)

[87] (WO2023/285070)

[30] SE (2150934-4) 2021-07-13

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[21] **3,226,181**  
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) A61P 43/00 (2006.01) G01N 33/00 (2006.01)**

[25] EN

[54] **TREATMENT OF AGING FRAILTY COMPRISING ADMINISTERING BONE MARRIW DERIVED MESENCHYMAL STEM CELLS**

[54] **TRAITEMENT DE LA FRAGILITE DU VIEILLISSEMENT COMPRENANT L'ADMINISTRATION DE CELLULES SOUCHES MESENCHYMATEUSES DERIVEES DE MOELLE OSSEUSE**

[72] HARE, JOSHUA M., US

[72] OLIVA, ANTHONY A., US

[72] HITCHINSON, BEN, US

[71] LONGEVERON INC., US

[85] 2024-01-03

[86] 2022-09-09 (PCT/US2022/043067)

[87] (WO2023/039171)

[30] US (63/261,092) 2021-09-10

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[21] **3,226,184**  
[13] A1

[51] **Int.Cl. B62B 7/12 (2006.01) B62B 7/14 (2006.01)**

[25] EN

[54] **SEAT-BED DUAL-PURPOSE SUPPORT SWITCHING MECHANISM FOR BEARING DEVICE, SEAT, AND BEARING DEVICE**

[54] **MECANISME DE COMMUTATION DE SUPPORT A DOUBLE USAGE DE LIT-SIEGE POUR DISPOSITIF DE SUPPORT, SIEGE ET DISPOSITIF DE SUPPORT**

[72] YI, XIAOLONG, CH

[71] WONDERLAND SWITZERLAND AG, CH

[85] 2024-01-05

[86] 2022-07-07 (PCT/EP2022/068866)

[87] (WO2023/280971)

[30] CN (202110770235.9) 2021-07-07

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[21] **3,226,185**  
[13] A1

[51] **Int.Cl. A47C 19/12 (2006.01) A47C 19/00 (2006.01) A47C 19/04 (2006.01)**

[25] EN

[54] **METHOD FOR ASSEMBLING A MATTRESS FOUNDATION**

[54] **PROCEDE D'ASSEMBLAGE DE SOMMIER**

[72] WERNER, MARC, US

[71] WERNER MEDIA PARTNERS LLC, US

[85] 2024-01-03

[86] 2022-07-05 (PCT/US2022/073444)

[87] (WO2023/283562)

[30] US (63/263,992) 2021-11-12

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[21] **3,226,188**  
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) G01N 33/483 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **ORGANOID-DERIVED MONOLAYERS AND USES THEREOF**

[54] **MONOCOUCHEES DERIVEES D'ORGANOIDES ET LEURS UTILISATIONS**

[72] POURFARZAD, FARZIN, NL

[72] DERKSEN, MEREL, NL

[72] MERENDA, ALESSANDRA, NL

[72] FERNANDEZ-BOJ, SYLVIA, NL

[72] VRIES, ROBERT GERHARDUS JACOB, NL

[71] HUB ORGANOIDS IP B.V., NL

[85] 2024-01-05

[86] 2022-07-11 (PCT/EP2022/069354)

[87] (WO2023/281122)

[30] GB (2109913.0) 2021-07-09

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[21] **3,226,189**  
[13] A1

[51] **Int.Cl. A61K 31/517 (2006.01) A61K 31/12 (2006.01) A61K 31/4178 (2006.01) A61K 31/4196 (2006.01) A61K 31/497 (2006.01) A61K 31/519 (2006.01) A61P 25/02 (2006.01) A61P 25/28 (2006.01) G01N 33/00 (2006.01)**

[25] EN

[54] **VCP INHIBITORS AND USES THEREOF FOR TREATMENT**

[54] **INHIBITEURS DE VCP ET LEURS UTILISATIONS THERAPEUTIQUES**

[72] PATANI, RICKIE, GB

[72] HARLEY, JASMINE, GB

[71] THE FRANCIS CRICK INSTITUTE LIMITED, GB

[85] 2024-01-05

[86] 2022-07-07 (PCT/EP2022/069011)

[87] (WO2023/281030)

[30] GB (2109830.6) 2021-07-07

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[21] **3,226,193**  
[13] A1

[51] **Int.Cl. A61K 35/30 (2015.01) C12N 5/071 (2010.01) A01N 1/02 (2006.01) A61L 27/38 (2006.01) A61L 27/50 (2006.01)**

[25] EN

[54] **THERAPEUTIC COMPOSITION CONTAINING CORNEAL ENDOTHELIUM REPLACEMENT CELLS**

[54] **COMPOSITION THERAPEUTIQUE CONTENANT DES CELLULES DE REMPLACEMENT DE L'ENDOTHELIUM CORNEEN**

[72] YOSHIZAKI, SHINJI, JP  
[72] HATOU, SHIN, JP  
[72] TSUKAMOTO, MASASHI, JP  
[71] CELLUSION INC., JP  
[85] 2024-01-05  
[86] 2022-07-07 (PCT/JP2022/027002)  
[87] (WO2023/282337)  
[30] US (63/219,086) 2021-07-07  
[30] US (63/320,846) 2022-03-17

[21] **3,226,195**  
[13] A1

[51] **Int.Cl. A61K 31/39 (2006.01) C12N 5/071 (2010.01) A61K 35/30 (2015.01) A61L 27/38 (2006.01) A61L 27/50 (2006.01)**

[25] EN

[54] **CELL SEEDING AGENT AND SUBSTRATE FOR CELL TRANSPLANTATION USE**

[54] **AGENT D'ENSEMENCEMENT CELLULAIRE ET SUBSTRAT POUR UNE UTILISATION DE TRANSPLANTATION CELLULAIRE**

[72] YOSHIZAKI, SHINJI, JP  
[72] HATOU, SHIN, JP  
[72] SAKAGUCHI, YOSHIKI, JP  
[71] CELLUSION INC., JP  
[85] 2024-01-05  
[86] 2022-07-07 (PCT/JP2022/027003)  
[87] (WO2023/282338)  
[30] US (63/219,101) 2021-07-07

[21] **3,226,197**  
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01)**

[25] EN

[54] **RISK PREDICTION MODEL FOR PROSTATE CANCER**

[54] **MODELE DE PREDICTION DE RISQUE POUR LE CANCER DE LA PROSTATE**

[72] FITZGERALD, STEPHEN PETER, GB  
[72] RUDDOCK, MARK, GB  
[72] LAMONT, JOHN, GB  
[72] MCKENNA, DECLAN, GB  
[71] RANDOX LABORATORIES LTD, GB  
[85] 2024-01-05  
[86] 2022-08-10 (PCT/EP2022/072425)  
[87] (WO2023/017072)  
[30] GB (2111635.5) 2021-08-13

[21] **3,226,199**  
[13] A1

[51] **Int.Cl. A61K 35/33 (2015.01) A61P 13/12 (2006.01)**

[25] EN

[54] **FIBROBLAST-CONTAINING PHARMACEUTICAL COMPOSITION FOR TREATING KIDNEY DISEASE**

[54] **COMPOSITION PHARMACEUTIQUE CONTENANT DES FIBROBLASTES POUR LE TRAITEMENT D'UNE MALADIE RENALE**

[72] IWAMIYA, TAKAHIRO, JP  
[72] HOMMA, JUN, JP  
[72] IMAMURA, TOMOMI, JP  
[72] MATSUOKA, YUIMI, JP  
[71] METCELA INC., JP  
[85] 2024-01-05  
[86] 2022-08-23 (PCT/JP2022/031721)  
[87] (WO2023/037868)  
[30] JP (2021-146130) 2021-09-08

[21] **3,226,203**  
[13] A1

[51] **Int.Cl. F28F 3/08 (2006.01)**

[25] EN

[54] **HEAT EXCHANGE ELEMENT**

[54] **ELEMENT D'ECHANGE DE CHALEUR**

[72] WAKITA, SATOSHI, JP  
[72] IKEUCHI, YUICHIRO, JP  
[72] MIYAKE, FUMIYASU, JP  
[71] MITSUBISHI ELECTRIC CORPORATION, JP  
[85] 2024-01-03  
[86] 2021-07-12 (PCT/JP2021/026095)  
[87] (WO2023/286110)

[21] **3,226,204**  
[13] A1

[51] **Int.Cl. A61K 9/06 (2006.01) A61K 31/00 (2006.01)**

[25] EN

[54] **AQUEOUS GEL COMPOSITION**

[54] **COMPOSITION DE GEL AQUEUX**

[72] HEYMANS, SVEN, BE  
[72] KOOL, PETER JAN ROBERT, NL  
[72] DIEDERICHS, JULIA EVA, IT  
[72] DYHRFJELD-JOHNSEN, JONAS, DE  
[71] ACOUSIA THERAPEUTICS GMBH, DE  
[85] 2024-01-05  
[86] 2023-05-17 (PCT/EP2023/063320)  
[87] (WO2023/222795)  
[30] EP (22174123.4) 2022-05-18

[21] **3,226,206**  
[13] A1

[51] **Int.Cl. C07D 491/107 (2006.01) A61K 31/517 (2006.01) A61K 31/5377 (2006.01) A61P 9/00 (2006.01) A61P 27/02 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) A61P 43/00 (2006.01) C07D 401/14 (2006.01) C07D 471/10 (2006.01)**

[25] EN

[54] **SHP2 INHIBITOR AND USE THEREOF**

[54] **INHIBITEUR DE SHP2 ET SON UTILISATION**

[72] KIM, MIYEON, KR  
[72] PARK, DOHYUN, KR  
[72] KIM, DONGSU, KR  
[72] YOON, KYEONGJIN, KR  
[72] CHOI, SUNGPIL, KR  
[72] LIM, SANG KYUN, KR  
[72] CHUNG, EU DDEUM, KR  
[72] LEE, MIJUNG, KR  
[72] JEON, DAHYE, KR  
[72] JANG, SOYEON, KR  
[72] LEE, KYUNGK, KR  
[72] KIM, JINHWAN, KR  
[72] KIM, EUNJI, KR  
[72] MIN, JIEUN, KR  
[72] LEE, KANGWOO, KR  
[72] YOO, JAKYUNG, KR  
[71] KANAPH THERAPEUTICS INC., KR  
[85] 2024-01-05  
[86] 2022-07-08 (PCT/KR2022/009980)  
[87] (WO2023/282702)  
[30] KR (10-2021-0090239) 2021-07-09  
[30] KR (10-2021-0090244) 2021-07-09  
[30] KR (10-2022-0031603) 2022-03-14

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[21] **3,226,207**  
[13] A1

[51] **Int.Cl. H04N 21/262 (2011.01) H04N 21/414 (2011.01) H04N 21/454 (2011.01) H04N 21/4545 (2011.01) H04N 21/4722 (2011.01) H04N 21/845 (2011.01)**

[25] EN

[54] **INTERACTIVE SUPPLEMENTAL CONTENT SYSTEM**

[54] **SYSTEME DE CONTENU SUPPLEMENTAIRE INTERACTIF**

[72] ADAMS RYAN, STEPHANIE M., US

[72] HARB, REDA, US

[71] ROVI GUIDES, INC., US

[85] 2024-01-05

[86] 2021-12-21 (PCT/US2021/064715)

[87] (WO2023/287450)

[30] US (17/375,085) 2021-07-14

[21] **3,226,209**  
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/64 (2006.01) A61B 17/66 (2006.01) A61B 17/88 (2006.01)**

[25] EN

[54] **DEVICE FOR INTRAMEDULLARY NAILING OF THE TIBIA**

[54] **DISPOSITIF DE CLOUAGE INTRAMEDULLAIRE DU TIBIA**

[72] HYTTINEN, MIKA, FI

[71] HEMITEC FINLAND OY, FI

[85] 2024-01-05

[86] 2022-05-10 (PCT/IB2022/054316)

[87] (WO2023/281324)

[30] FI (20215797) 2021-07-08

[21] **3,226,210**  
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01) G06V 20/69 (2022.01) G01N 33/574 (2006.01)**

[25] EN

[54] **METHOD FOR COLD PLASMA-INDUCED CELL DEATH IN BREAST CANCER CELLS BY 8-OXOG MODIFICATION AND DEGRADATION OF HISTONE MRNA**

[54] **PROCEDE DE MORT CELLULAIRE INDUITE PAR PLASMA FROID DANS DES CELLULES DU CANCER DU SEIN PAR MODIFICATION DE 8-OXOG ET DEGRADATION DE L'ARNM D'HISTONE**

[72] CANADY, JEROME, US

[72] MURTHY, SARAVANA, US

[72] CHENG, XIAOQIAN, US

[72] ZHUANG, TAISEN, US

[71] JEROME CANADY RESEARCH INSTITUTE FOR ADVANCED BIOLOGICAL AND TECHNOLOGICAL SCIENCES, US

[85] 2024-01-05

[86] 2022-07-05 (PCT/US2022/036133)

[87] (WO2023/283194)

[30] US (63/218,449) 2021-07-05

[21] **3,226,211**  
[13] A1

[51] **Int.Cl. B05B 7/04 (2006.01) B05B 7/24 (2006.01) B05B 1/00 (2006.01) B05B 9/00 (2006.01) B05B 9/01 (2006.01)**

[25] EN

[54] **APPLICATOR**

[54] **APPLICATEUR**

[72] DONALDSON, ERIC, US

[72] BOLEA, PHIL, US

[72] NELSON, BRUCE, US

[72] REEDER, TOM, US

[72] WILDE, FORREST, US

[72] CALAMAN, BRIAN, US

[72] KULP, AUSTIN, US

[71] CARLISLE CONSTRUCTION MATERIALS, LLC, US

[85] 2024-01-05

[86] 2022-07-06 (PCT/US2022/036236)

[87] (WO2023/283251)

[30] US (63/219,174) 2021-07-07

[21] **3,226,212**  
[13] A1

[51] **Int.Cl. A45F 5/02 (2006.01) A41F 9/00 (2006.01) A45F 3/00 (2006.01) A45F 3/14 (2006.01) A45F 5/00 (2006.01)**

[25] EN

[54] **INNER DUTY BELT AND RELATED SYSTEM**

[54] **COURROIE DE TRAVAIL INTERNE ET SYSTEME ASSOCIE**

[72] KOZAK, KARL, US

[72] BOVE, MAURO, US

[71] KORE ESSENTIALS INC., US

[85] 2024-01-05

[86] 2022-07-07 (PCT/US2022/036286)

[87] (WO2023/287629)

[30] US (17/372,483) 2021-07-11

[21] **3,226,213**  
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) C12N 15/00 (2006.01)**

[25] EN

[54] **RNA ADSORBED ONTO LIPID NANO-EMULSION PARTICLES AND ITS FORMULATIONS.**

[54] **ARN ADSORBE SUR DES PARTICULES DE NANO-EMULSION LIPIDIQUES ET SES FORMULATIONS**

[72] SINGH, SANJAY, IN

[72] KAVIRAJ, SWARNENDU, IN

[72] SINGH, AJAY, IN

[72] RAGHUWANSHI, ARJUN SINGH, IN

[72] KARDILE, PAVAN, IN

[72] SHUKLA, SHALU, IN

[72] KULKARNI, AISHWARYA, IN

[72] AGRAWAL, PRAVEEN, IN

[72] RAUT, SUNIL, IN

[71] GENNOVA BIOPHARMACEUTICALS LTD., IN

[85] 2024-01-05

[86] 2022-07-08 (PCT/IN2022/050624)

[87] (WO2023/286076)

[30] IN (202121031414) 2021-07-13

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[21] **3,226,215**  
[13] A1

[51] **Int.Cl. H02P 21/06 (2016.01) H02P 21/08 (2016.01) H02P 21/10 (2016.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING A MOTOR**

[54] **SYSTEME ET PROCEDE DE COMMANDE D'UN MOTEUR**

[72] SWINT, ETHAN, BAGGET, US

[72] DA COSTA, ANTHONY, US

[72] RUBIN, MATTHEW, J., US

[72] PENNINGTON, III, WALTER WESLEY, US

[71] TAU MOTORS, INC., US

[85] 2024-01-05

[86] 2022-07-07 (PCT/US2022/036417)

[87] (WO2023/283378)

[30] US (63/219,096) 2021-07-07

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[21] **3,226,220**  
[13] A1

[51] **Int.Cl. B60G 17/02 (2006.01) B60G 9/00 (2006.01) B60G 17/015 (2006.01) B62D 61/12 (2006.01)**

[25] EN

[54] **DRIVEN LIFT AXLES AND ASSOCIATED SYSTEMS AND METHODS**

[54] **ESSIEUX RELEVABLES ENTRAINES AINSI QUE SYSTEMES ET PROCEDES ASSOCIES**

[72] DAVIS, TYE B., US

[72] JUNGJOHAN, CRAIG, US

[71] LINK MFG., LTD., US

[85] 2024-01-05

[86] 2022-07-08 (PCT/US2022/036587)

[87] (WO2023/283464)

[30] US (63/219,770) 2021-07-08

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[21] **3,226,225**  
[13] A1

[51] **Int.Cl. A61K 31/553 (2006.01) C07D 267/14 (2006.01)**

[25] EN

[54] **THERAPEUTIC COMPOUNDS AND METHODS**

[54] **COMPOSES ET METHODES THERAPEUTIQUES**

[72] GREEN, SAMANTHA ALYSON, US

[72] GRANDNER, JESSICA MARIE, US

[72] STABEN, STEVEN THOMAS, US

[72] AMARA, NERI, US

[72] DIXIT, VISHVA M., US

[72] VILLEMURE, ELISIA, US

[71] GENENTECH, INC., US

[85] 2024-01-05

[86] 2022-07-12 (PCT/US2022/036829)

[87] (WO2023/287793)

[30] US (63/222,288) 2021-07-15

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[21] **3,226,218**  
[13] A1

[51] **Int.Cl. G16B 20/00 (2019.01) G06N 20/00 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR BRAIN-MACHINE-INTERFACE-AIDED FEDERATED TRAINING OF SCENT DETECTION ANIMALS**

[54] **SYSTEMES ET PROCEDES D'ENTRAINEMENT FEDERE ASSISTE PAR INTERFACE CERVEAU-MACHINE D'ANIMAUX DE DETECTION DE PISTE**

[72] RINBERG, DMITRY, US

[72] LAVELLA, GABRIEL, US

[72] LEDOCHOWITSCH, PETER, US

[72] HARVEY, JOSHUA, US

[71] NEW YORK UNIVERISTY, US

[71] COMMON SCENTS INC., US

[85] 2024-01-05

[86] 2022-07-08 (PCT/US2022/036578)

[87] (WO2023/283459)

[30] US (63/220,361) 2021-07-09

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[21] **3,226,221**  
[13] A1

[51] **Int.Cl. C23C 24/04 (2006.01) C21D 9/00 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND COMPOSITIONS FOR CORROSION RESISTANT STAINLESS STEEL COATINGS**

[54] **SYSTEMES, PROCEDES ET REVETEMENTS EN ACIER INOXYDABLE RESISTANT A LA CORROSION**

[72] MCALPINE, SAMUEL, US

[72] JEPEAL, STEVEN, US

[71] MCALPINE, SAMUEL, US

[71] JEPEAL, STEVEN, US

[85] 2024-01-05

[86] 2022-07-08 (PCT/US2022/036590)

[87] (WO2023/283467)

[30] US (63/219,434) 2021-07-08

[30] US (63/219,436) 2021-07-08

[30] US (63/255,520) 2021-10-14

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[21] **3,226,241**  
[13] A1

[51] **Int.Cl. C22B 3/04 (2006.01) C22B 3/44 (2006.01)**

[25] EN

[54] **METHOD FOR TREATING ALLOY**

[54] **PROCEDE DE TRAITEMENT D'ALLIAGE**

[72] SHOUJI, HIROFUMI, JP

[72] TAKENOUCHI, HIROSHI, JP

[72] MATSUOKA, ITSUMI, JP

[72] SANJO, SHOTA, JP

[72] MATSUGI, TAKUMI, JP

[72] ASANO, SATOSHI, JP

[72] HEGURI, SHIN-ICHI, JP

[71] SUMITOMO METAL MINING CO., LTD., JP

[85] 2024-01-17

[86] 2022-07-14 (PCT/JP2022/027748)

[87] (WO2023/002917)

[30] JP (2021-119297) 2021-07-20

[30] JP (2021-140726) 2021-08-31

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[21] **3,226,245**  
[13] A1

[51] **Int.Cl. A61B 5/395 (2021.01) A61N 1/00 (2006.01)**  
[25] EN  
[54] **MONITORING DIAPHRAGMATIC RESPONSE TO PHRENIC NERVE STIMULATION**  
[54] **SURVEILLANCE DE LA REPONSE DIAPHRAGMATIQUE A UNE STIMULATION DU NERF PHRENIQUE**  
[72] FRANCESCHI, FREDERIC, FR  
[72] THIERY, BERTRAND, FR  
[71] CIRCLE SAFE, FR  
[85] 2024-01-17  
[86] 2022-07-19 (PCT/EP2022/070278)  
[87] (WO2023/001859)  
[30] EP (21306024.7) 2021-07-20

[21] **3,226,252**  
[13] A1

[51] **Int.Cl. B65D 23/08 (2006.01)**  
[25] EN  
[54] **CONTAINER SYSTEMS THAT INCLUDE SLEEVE LABELS**  
[54] **SYSTEMES DE CONTENANT QUI COMPRENNENT DES ETIQUETTES EN FORME DE MANCHON**  
[72] LING, TIMOTHY HUNN TAO, US  
[72] BERLEPSCH, JOSEPH ALLEN, US  
[72] ALVARADO, MAURO JR., US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2024-01-17  
[86] 2022-08-10 (PCT/US2022/039887)  
[87] (WO2023/018750)  
[30] US (63/231,357) 2021-08-10

[21] **3,226,255**  
[13] A1

[51] **Int.Cl. A61M 37/00 (2006.01)**  
[25] EN  
[54] **MICRONEEDLE DEVICE AND METHOD FOR DETECTING AT LEAST ONE FORCE ACTING ON A MICRONEEDLE ARRAY**  
[54] **DISPOSITIF A MICRO-AIGUILLES ET PROCEDE DE DETECTION D'AU MOINS UNE FORCE AGISSANT SUR UN RESEAU DE MICRO-AIGUILLES**  
[72] HEIDARY DASTJERDI, MARAL, DE  
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE  
[85] 2024-01-17  
[86] 2022-07-25 (PCT/EP2022/070788)  
[87] (WO2023/020785)  
[30] DE (10 2021 121 528.5) 2021-08-19

[21] **3,226,249**  
[13] A1

[51] **Int.Cl. A23L 33/16 (2016.01) A61K 31/375 (2006.01) A61K 33/00 (2006.01) A61K 33/26 (2006.01) A61K 36/21 (2006.01) A61P 3/02 (2006.01) A61P 7/06 (2006.01)**  
[25] EN  
[54] **IRON SUPPLEMENT COMPOSITIONS AND METHODS OF USE THEREOF**  
[54] **COMPOSITIONS DE SUPPLEMENT DE FER ET LEURS PROCEDES D'UTILISATION**  
[72] KRAMER, RONALD B., US  
[72] NIKOLAIDIS, ALEXANDROS, GR  
[71] THERMOLIFE INTERNATIONAL, LLC, US  
[85] 2024-01-17  
[86] 2022-08-16 (PCT/US2022/040429)  
[87] (WO2023/023029)  
[30] US (63/233,682) 2021-08-16

[21] **3,226,254**  
[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01) F21V 8/00 (2006.01) G02B 1/04 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR TREATING ISCHEMIC-REPERFUSION AND OTHER INJURIES USING A WAVEGUIDE**  
[54] **SYSTEMES ET PROCEDES POUR TRAITER UNE REPERFUSION ISCHEMIQUE ET D'AUTRES LESIONS AU MOYEN D'UN GUIDE D'ONDES**  
[72] HUETTEMANN, MAIK, US  
[72] SANDERSON, THOMAS, US  
[72] WADDELL, THOMAS, US  
[72] TUCK, SAM, US  
[71] WAYNE STATE UNIVERSITY, US  
[71] MITOVATION, INC., US  
[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US  
[85] 2024-01-17  
[86] 2022-07-19 (PCT/US2022/037628)  
[87] (WO2023/003903)  
[30] US (63/223,677) 2021-07-20

[21] **3,226,256**  
[13] A1

[51] **Int.Cl. C11D 3/37 (2006.01)**  
[25] EN  
[54] **DETERGENT COMPOSITION COMPRISING DETERGENT SURFACTANT AND GRAFT POLYMER**  
[54] **COMPOSITION DETERGENTE COMPRENANT UN TENSIOACTIF DETERSIF ET UN POLYMERE GREFFE**  
[72] BEAN, JESSICA ELEANOR, DE  
[72] BECKER, NATALIA, DE  
[72] BENLAHMAR, OUIDAD, DE  
[72] BUECHSE, ANDREAS, DE  
[72] DEL REGNO, ANNALaura, DE  
[72] FLECKENSTEIN, PETER JOACHIM, DE  
[72] GORCZYNSKA-COSTELLO, KATARZYNA, GB  
[72] HUELSKOETTER, FRANK, DE  
[72] MCLUCKIE, KATE MOIRA, GB  
[72] MUELLER, JAN OLE, DE  
[72] SETTELS, VOLKER, DE  
[72] SI, GANG, GB  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2024-01-17  
[86] 2022-08-10 (PCT/US2022/074731)  
[87] (WO2023/019153)  
[30] EP (21191154.0) 2021-08-12

[21] **3,226,251**  
[13] A1

[51] **Int.Cl. B65D 47/12 (2006.01) B67D 7/02 (2010.01) B65D 47/28 (2006.01)**  
[25] EN  
[54] **SAFETY CLOSING DEVICE**  
[54] **DISPOSITIF DE FERMETURE DE SECURITE**  
[72] KRAUTKRAEMER, CHRISTIAN, DE  
[71] BASF SE, DE  
[85] 2024-01-17  
[86] 2022-07-22 (PCT/EP2022/070653)  
[87] (WO2023/002029)  
[30] DE (10 2021 119 064.9) 2021-07-22

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<p style="text-align: center;">[21] <b>3,226,267</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 35/74 (2015.01) A61P 3/04 (2006.01) A61P 25/18 (2006.01) A61P 25/22 (2006.01) A61P 25/28 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PREVENTION AND/OR TREATMENT OF REWARD DYSREGULATION DISORDERS</b></p> <p>[54] <b>PREVENTION ET/OU TRAITEMENT DE TROUBLES LIES A UNE DYSREGULATION DU SYSTEME DE RECOMPENSE</b></p> <p>[72] EVERARD, AMANDINE, BE</p> <p>[72] DE WOUTERS D'OPLINTER, ALICE, BE</p> <p>[72] MALLARET, GEOFFROY OLIVIER LUDOVIC, FR</p> <p>[72] CANI, PATRICE, BE</p> <p>[71] UNIVERSITE CATHOLIQUE DE LOUVAIN, BE</p> <p>[85] 2024-01-18</p> <p>[86] 2022-07-20 (PCT/EP2022/070430)</p> <p>[87] (WO2023/001934)</p> <p>[30] EP (PCT/EP2021/070303) 2021-07-20</p> <p>[30] EP (22158054.1) 2022-02-22</p>	<p style="text-align: center;">[21] <b>3,226,279</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 9/00 (2006.01) A23G 3/54 (2006.01) A61K 36/185 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>GUMMY DOSAGE FORMS</b></p> <p>[54] <b>FORMES GALENIQUES GELIFIEES</b></p> <p>[72] ROGERS, AMANDA, US</p> <p>[72] MYLROIE, CAMERON, US</p> <p>[71] ZARBEEES, INC., US</p> <p>[85] 2024-01-08</p> <p>[86] 2022-07-07 (PCT/IB2022/056302)</p> <p>[87] (WO2023/281444)</p> <p>[30] US (63/219,505) 2021-07-08</p>	<p style="text-align: center;">[21] <b>3,226,289</b> [13] A1</p> <p>[51] <b>Int.Cl. F16K 5/04 (2006.01) F16K 5/08 (2006.01) F16K 5/20 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>VALVE SEAT, PLUG VALVE, AND FRACTURING MANIFOLD</b></p> <p>[54] <b>SIEGE DE VANNE, ROBINET A TOURNANT ET COLLECTEUR DE FRACTURATION</b></p> <p>[72] ZUO, CHANGXIAO, CN</p> <p>[72] ZHANG, SHULIN, CN</p> <p>[72] WANG, JIXIN, CN</p> <p>[72] GE, ANPENG, CN</p> <p>[72] ZHU, YILONG, CN</p> <p>[72] HUANG, JINLING, CN</p> <p>[71] YANTAI JEREH PETROLEUM EQUIPMENT &amp; TECHNOLOGIES CO., LTD., CN</p> <p>[85] 2024-01-09</p> <p>[86] 2022-02-09 (PCT/CN2022/075701)</p> <p>[87] (WO2023/005185)</p> <p>[30] CN (202121747545.0) 2021-07-29</p>
<p style="text-align: center;">[21] <b>3,226,270</b> [13] A1</p> <p>[51] <b>Int.Cl. G06F 16/25 (2019.01) G16H 50/70 (2018.01) G06F 16/27 (2019.01) G06F 16/28 (2019.01) G06F 16/907 (2019.01) G06N 5/02 (2023.01) G06N 5/04 (2023.01)</b></p> <p>[25] EN</p> <p>[54] <b>SYSTEM OF PREPROCESSORS TO HARMONIZE DISPARATE 'OMICS DATASETS BY ADDRESSING BIAS AND/OR BATCH EFFECTS</b></p> <p>[54] <b>SYSTEME DE PRE-PROCESSEURS DESTINE A HARMONISER DES ENSEMBLES DE DONNEES OMIQUES DISPARATES PAR TRAITEMENT D'EFFETS DE BIAIS ET/OU DE LOT</b></p> <p>[72] STAJDOHAR, MIHA, US</p> <p>[72] ZGANEC, MATJAZ, US</p> <p>[72] CVITKOVIC, ROBERT, US</p> <p>[72] LUSTRIK, ROMAN, US</p> <p>[72] AUSEC, LUKA, US</p> <p>[72] ROSENGARTEN, RAFAEL, US</p> <p>[72] POINTING, DANIEL WILLIAM, US</p> <p>[71] GENIALIS INC., US</p> <p>[85] 2024-01-18</p> <p>[86] 2022-07-21 (PCT/US2022/037860)</p> <p>[87] (WO2023/004033)</p> <p>[30] US (63/224,210) 2021-07-21</p>	<p style="text-align: center;">[21] <b>3,226,284</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 39/215 (2006.01) C07H 21/02 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>OLIGONUCLEOTIDES AND VIRAL UNTRANSLATED REGION (UTR) FOR INCREASING EXPRESSION OF TARGET GENES AND PROTEINS</b></p> <p>[54] <b>OLIGONUCLEOTIDES ET REGION NON TRADUITE (UTR) VIRALE POUR AUGMENTER L'EXPRESSION DE GENES ET DE PROTEINES CIBLES</b></p> <p>[72] HU, WENHUI, US</p> <p>[71] TEMPLE UNIVERSITY - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US</p> <p>[85] 2024-01-08</p> <p>[86] 2022-07-07 (PCT/US2022/036367)</p> <p>[87] (WO2023/283342)</p> <p>[30] US (63/219,587) 2021-07-08</p> <p>[30] US (63/219,596) 2021-07-08</p> <p>[30] US (63/219,599) 2021-07-08</p> <p>[30] US (63/332,378) 2022-04-19</p>	<p style="text-align: center;">[21] <b>3,226,290</b> [13] A1</p> <p>[51] <b>Int.Cl. A61B 5/00 (2006.01) A61B 5/11 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>MONITORING DEVICE, ASSEMBLY OF SAID MONITORING DEVICE WITH A SUPPORT, AND MONITORING SYSTEM</b></p> <p>[54] <b>DISPOSITIF DE SURVEILLANCE, ENSEMBLE DUDIT DISPOSITIF DE SURVEILLANCE DOTE D'UN SUPPORT, ET SYSTEME DE SURVEILLANCE</b></p> <p>[72] GRAVEMAKER, MENNO LAURENS, NL</p> <p>[72] BAKKER, THOMAS DANIEL, NL</p> <p>[72] ELDERING, DANNY, NL</p> <p>[71] MOMO MEDICAL HOLDING B.V., NL</p> <p>[85] 2024-01-08</p> <p>[86] 2022-07-11 (PCT/NL2022/050402)</p> <p>[87] (WO2023/282754)</p> <p>[30] NL (2028690) 2021-07-09</p>

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[21] **3,226,292**  
[13] A1

[51] **Int.Cl. H02J 1/14 (2006.01) H02J 7/14 (2006.01)**

[25] EN

[54] **ENERGY SUPPLY MANAGEMENT SYSTEM FOR A VEHICLE, ENERGY SUPPLY MANAGEMENT METHOD, AND COMPUTER PROGRAM PRODUCT**

[54] **SYSTEME DE GESTION D'ALIMENTATION EN ENERGIE POUR UN VEHICULE, PROCEDE DE GESTION D'ALIMENTATION EN ENERGIE ET PRODUIT PROGRAMME D'ORDINATEUR**

[72] JUNDT, OLIVER, DE  
[72] NEMETH, HUBA, HU  
[72] MULLER, JENS-HAUKE, DE  
[71] KNORR-BREMSE SYSTEME FUR NUTZFAHRZEUGE GMBH, DE  
[85] 2024-01-09  
[86] 2022-06-24 (PCT/EP2022/067356)  
[87] (WO2023/280599)  
[30] DE (10 2021 207 308.5) 2021-07-09

[21] **3,226,293**  
[13] A1

[51] **Int.Cl. A46B 15/00 (2006.01) A61C 17/22 (2006.01)**

[25] EN

[54] **PERSONAL CARE SYSTEM**

[54] **SYSTEME DE SOINS PERSONNELS**

[72] STRATMANN, MARTIN, DE  
[72] SCHIEBAHN, MATTHIAS, DE  
[71] BRAUN GMBH, DE  
[85] 2024-01-09  
[86] 2022-07-25 (PCT/IB2022/056838)  
[87] (WO2023/007348)  
[30] EP (21188142.0) 2021-07-28

[21] **3,226,295**  
[13] A1

[51] **Int.Cl. G06F 21/83 (2013.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SECURING KEYBOARD INPUT TO A COMPUTING DEVICE**

[54] **SYSTEME ET PROCEDE DE SECURISATION D'UNE ENTREE DE CLAVIER DANS UN DISPOSITIF INFORMATIQUE**

[72] GARDINER, JAMES ANDREW, US  
[71] NEW MILLENNIUM TECHNOLOGIES LLC, US  
[85] 2024-01-09  
[86] 2021-07-09 (PCT/US2021/041132)  
[87] (WO2023/282915)

[21] **3,226,297**  
[13] A1

[51] **Int.Cl. H02J 3/00 (2006.01) H02J 3/14 (2006.01) H02J 9/06 (2006.01)**

[25] EN

[54] **MICROGRID SWITCHOVER USING ZERO-CROSS DETECTION**

[54] **COMMUTATION DE MICRO-RESEAU AU MOYEN D'UNE DETECTION DE PASSAGE PAR ZERO**

[72] MADONNA, ROBERT P., US  
[72] CALLAN, WILSON D., US  
[72] MAGNUSSEN, JON R., US  
[72] ESCHHOLZ, SIEGMAR K., US  
[71] SAVANT SYSTEMS, INC., US  
[85] 2024-01-09  
[86] 2022-06-08 (PCT/US2022/032699)  
[87] (WO2023/033894)  
[30] US (17/463,143) 2021-08-31

[21] **3,226,299**  
[13] A1

[51] **Int.Cl. B26D 1/40 (2006.01) B26D 1/62 (2006.01) B26D 7/10 (2006.01) B26D 7/18 (2006.01)**

[25] EN

[54] **CUTTING APPARATUS FOR CUTTING SEGMENTS FOR ENERGY CELLS FROM A FED CONTINUOUS WEB**

[54] **APPAREIL DE COUPE DESTINE A COUPER DES SEGMENTS POUR DES CELLULES ENERGETIQUES A PARTIR D'UNE BANDE CONTINUE ALIMENTEE**

[72] FOLGER, MANFRED, DE  
[72] WAGNER, MARCUS, DE  
[72] KLAPER, NILS, DE  
[71] KORBER TECHNOLOGIES GMBH, DE  
[85] 2024-01-09  
[86] 2022-07-07 (PCT/EP2022/068879)  
[87] (WO2023/285272)  
[30] DE (10 2021 207 343.3) 2021-07-12

[21] **3,226,303**  
[13] A1

[51] **Int.Cl. C12N 1/16 (2006.01) A61K 36/06 (2006.01) C12N 15/80 (2006.01) C12P 7/16 (2006.01) C12P 7/54 (2006.01)**

[25] EN

[54] **YEAST SINGLE NUCLEOTIDE POLYMORPHISMS FOR INDUSTRIALLY RELEVANT PHENOTYPES**

[54] **POLYMORPHISMES MONONUCLEOTIDIQUES DE LEVURE POUR PHENOTYPES INDUSTRIELLEMENT PERTINENTS**

[72] VERSTREPEN, KEVIN, BE  
[72] HO, PING-WEI, BE  
[72] JAROSZ, DAN, US  
[71] VIB VZW, BE  
[71] KATHOLIEKE UNIVERSITEIT LEUVEN, K.U.LEUVEN R&D, BE  
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US  
[85] 2024-01-09  
[86] 2022-07-07 (PCT/EP2022/068897)  
[87] (WO2023/280976)  
[30] US (63/219,993) 2021-07-09

[21] **3,226,305**  
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01)**

[25] EN

[54] **TRANSMUCOSAL PATCH COMPRISING A CANNABINOID AND/OR AN OPIOID**

[54] **TIMBRE TRANSMUCOSAL COMPRENANT UN CANNABINOIDE ET/OU UN OPIOIDE**

[72] WAGNER, YVONNE, DE  
[72] WINDBERGS, MAIKE, DE  
[72] PLANZ, VIKTORIA, DE  
[72] WALTHER, ALICE, DE  
[72] FREY, NADINE, DE  
[72] SEIFERT, ANKE, DE  
[72] WALTHER, MARCEL, DE  
[71] CANNAMEDICAL PHARMA GMBH, DE  
[85] 2024-01-09  
[86] 2022-07-29 (PCT/EP2022/071416)  
[87] (WO2023/006980)  
[30] EP (21188925.8) 2021-07-30

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[21] **3,226,308**  
[13] A1

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

[25] EN

[54] **ELECTRODE ASSEMBLY FOR APPLYING TUMOR TREATING FIELDS (TTFIELDS) WITH A SHEET OF ANISOTROPIC MATERIAL**

[54] **ENSEMBLE ELECTRODE POUR L'APPLICATION DE CHAMPS DE TRAITEMENT DE TUMEURS (CHAMPS TT) AVEC UNE FEUILLE DE MATERIAU ANISOTROPE**

[72] WASSERMAN, YORAM, IL  
[72] OBUCHOVSKY, STAS, IL  
[72] KUPLENNIK, NATALIYA, IL  
[72] SHAPIRO, DAVID, IL  
[71] NOVOCURE GMBH, CH  
[85] 2024-01-09  
[86] 2022-08-04 (PCT/IB2022/057233)  
[87] (WO2023/012707)  
[30] US (63/230,438) 2021-08-06  
[30] US (63/275,841) 2021-11-04  
[30] US (63/275,843) 2021-11-04

[21] **3,226,310**  
[13] A1

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

[25] EN

[54] **ELECTRODE ASSEMBLY FOR APPLYING TUMOR TREATING FIELDS (TTFIELDS) THAT INCLUDE A SHEET OF GRAPHITE**

[54] **ENSEMBLE ELECTRODE POUR L'APPLICATION DE CHAMPS DE TRAITEMENT DE TUMEURS (TTCHAMPS) COMPRENANT UNE FEUILLE DE GRAPHITE**

[72] WASSERMAN, YORAM, IL  
[72] OBUCHOVSKY, STAS, IL  
[72] KUPLENNIK, NATALIYA, IL  
[72] SHAPIRO, DAVID, IL  
[71] NOVOCURE GMBH, CH  
[85] 2024-01-09  
[86] 2022-08-04 (PCT/IB2022/057234)  
[87] (WO2023/012708)  
[30] US (63/230,438) 2021-08-06  
[30] US (63/275,841) 2021-11-04  
[30] US (63/275,843) 2021-11-04

[21] **3,226,312**  
[13] A1

[51] **Int.Cl. A23K 10/16 (2016.01) A23K 50/80 (2016.01) A01K 61/59 (2017.01) A61K 39/106 (2006.01) A61P 31/04 (2006.01) C12N 1/20 (2006.01)**

[25] EN

[54] **COMPOSITION FOR REARING ORGANISM BELONGING TO ORDER DECAPODA AND COMPOSITION FOR PREVENTING OR TREATING INFECTION IN DECAPODS**

[54] **COMPOSITION POUR L'ELEVAGE D'UN ORGANISME APPARTENANT A L'ORDRE DES DECAPODES ET COMPOSITION POUR LA PREVENTION OU LE TRAITEMENT D'UNE INFECTION CHEZ LES DECAPODES**

[72] AOKI, MIKIO, JP  
[72] MIKATA, KAZUKI, JP  
[72] KAI, TOSHIHIRO, JP  
[72] HIRONO, IKUO, JP  
[72] KONDO, HIDEHIRO, JP  
[72] MATSUMOTO, SANA, JP  
[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP  
[85] 2024-01-09  
[86] 2022-07-08 (PCT/JP2022/027145)  
[87] (WO2023/282354)  
[30] JP (2021-114165) 2021-07-09

[21] **3,226,318**  
[13] A1

[51] **Int.Cl. E21B 43/117 (2006.01) E21B 43/1185 (2006.01) E21B 43/119 (2006.01)**

[25] EN

[54] **MODULAR PERFORATION TOOL**

[54] **OUTIL DE PERFORATION MODULAIRE**

[72] LOWE, ERICK, FR  
[72] PRISBELL, ANDREW, US  
[72] BUSCH, TODD, US  
[71] SCHLUMBERGER CANADA LIMITED, CA  
[85] 2024-01-09  
[86] 2022-07-07 (PCT/US2022/036342)  
[87] (WO2023/283322)  
[30] US (63/219,968) 2021-07-09

[21] **3,226,320**  
[13] A1

[51] **Int.Cl. B01F 25/10 (2022.01) B01F 31/20 (2022.01) G01N 1/40 (2006.01) G01N 33/543 (2006.01) G01N 1/38 (2006.01)**

[25] EN

[54] **DEVICES FOR GENERATING PRE-TEMPLATED INSTANT PARTITIONS**

[54] **DISPOSITIFS POUR GENERER DES SEPARATIONS INSTANTANEEES PRE-STRUCTUREES**

[72] KIANI, SEPEHR, US  
[72] ALICCHIO, COREY, US  
[71] FLUENT BIOSCIENCES INC., US  
[85] 2024-01-09  
[86] 2022-07-08 (PCT/US2022/036464)  
[87] (WO2023/283408)  
[30] US (63/220,097) 2021-07-09

[21] **3,226,321**  
[13] A1

[51] **Int.Cl. B31B 50/46 (2017.01) B31B 50/62 (2017.01) B65D 5/24 (2006.01)**

[25] EN

[54] **METHODS AND MACHINE FOR FORMING CONTAINERS HAVING TOP FLANGE WITH GLUED CORNERS**

[54] **PROCEDES ET MACHINE POUR FORMER DES RECIPIENTS AYANT UNE BRIDE SUPERIEURE AVEC DES COINS COLLES**

[72] WHATLING, TOM J., GB  
[72] SCHERER, ALYSSA J., US  
[72] VALENCIA, JOHN, US  
[71] WESTROCK PACKAGING SYSTEMS, LLC, US  
[85] 2024-01-09  
[86] 2022-07-11 (PCT/US2022/036722)  
[87] (WO2023/283492)  
[30] US (63/220,311) 2021-07-09  
[30] US (63/248,039) 2021-09-24  
[30] US (63/309,805) 2022-02-14  
[30] US (63/320,428) 2022-03-16

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[21] **3,226,323**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) C07K 1/22 (2006.01) C07K 1/36 (2006.01) G01N 30/88 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **MASS SPECTROMETRY-BASED STRATEGY FOR DETERMINING PRODUCT-RELATED VARIANTS OF A BIOLOGIC**

[54] **STRATEGIE FONDEE SUR UNE SPECTROMETRIE DE MASSE POUR LA DETERMINATION DE VARIANTS ASSOCIES A UN PRODUIT D'UN PRODUIT BIOLOGIQUE**

[72] YAN, YUETIAN, US  
[72] ZHANG, ZHENGQI, US  
[72] WANG, SHUNHAI, US  
[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2024-01-09  
[86] 2022-07-12 (PCT/US2022/036870)  
[87] (WO2023/287823)  
[30] US (63/221,436) 2021-07-13

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[21] **3,226,324**  
[13] A1

[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6876 (2018.01) C40B 20/04 (2006.01) C40B 30/04 (2006.01) C40B 30/06 (2006.01) C40B 40/08 (2006.01) C40B 50/16 (2006.01)**

[25] EN

[54] **PRE-TEMPLATED INSTANT PARTITIONING OF DNA-ENCODED LIBRARIES**

[54] **REPARTITION INSTANTANEE PRE-MODELISEE DE BANQUES CODEES PAR L'ADN**

[72] KUGLER, CATHERINE, US  
[72] MELTZER, ROBERT, US  
[71] FLUENT BIOSCIENCES, INC., US

[85] 2024-01-09  
[86] 2022-07-14 (PCT/US2022/037078)  
[87] (WO2023/287957)  
[30] US (63/222,135) 2021-07-15

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[21] **3,226,326**  
[13] A1

[51] **Int.Cl. H01M 4/46 (2006.01) H01M 4/02 (2006.01) C22C 21/16 (2006.01)**

[25] EN

[54] **ALUMINUM ANODE, ALUMINUM ELECTROCHEMICAL CELL, AND BATTERY INCLUDING THE ALUMINUM ANODE**

[54] **ANODE EN ALUMINIUM, CELLULE ELECTROCHIMIQUE EN ALUMINIUM ET BATTERIE COMPRENANT L'ANODE EN ALUMINIUM**

[72] KARPINSKI, ALEXANDER, US  
[71] EAGLEPICHER TECHNOLOGIES, LLC, US

[85] 2024-01-09  
[86] 2022-07-14 (PCT/US2022/037120)  
[87] (WO2023/287976)  
[30] US (63/222,205) 2021-07-15

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[21] **3,226,327**  
[13] A1

[51] **Int.Cl. C12Q 1/02 (2006.01) C12N 15/10 (2006.01) C40B 20/04 (2006.01) G01N 33/569 (2006.01) C12Q 1/6806 (2018.01)**

[25] EN

[54] **DECENTRALIZED WORKFLOWS FOR SINGLE CELL ANALYSIS**

[54] **FLUX DE TRAVAIL DECENTRALISES POUR L'ANALYSE MONOCELLULAIRE**

[72] KIANI, SEPEHR, US  
[72] SANTHANAM, RAM, US  
[72] MELTZER, ROBERT, US  
[72] FONTANEZ, KRISTINA, US  
[71] FLUENT BIOSCIENCES INC., US

[85] 2024-01-09  
[86] 2022-07-14 (PCT/US2022/037129)  
[87] (WO2023/287980)  
[30] US (63/222,213) 2021-07-15





## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] <b>3,225,445</b> [13] A1	[21] <b>3,225,455</b> [13] A1	[21] <b>3,225,521</b> [13] A1
<p>[25] EN</p> <p>[54] <b>DEVICES, SYSTEMS AND METHODS FOR MONITORING KNEE REPLACEMENTS</b></p> <p>[54] <b>DISPOSITIFS, SYSTEMES ET PROCEDES DE SURVEILLANCE DE REMPLACEMENTS DU GENOU</b></p> <p>[72] HUNTER, WILLIAM L., CA</p> <p>[71] CANARY MEDICAL INC., CA</p> <p>[22] 2014-06-23</p> <p>[41] 2014-12-31</p> <p>[62] 2,953,097</p> <p>[30] US (61/838,317) 2013-06-23</p>	<p>[25] EN</p> <p>[54] <b>ION BEAM TARGET ASSEMBLIES FOR NEUTRON GENERATION</b></p> <p>[54] <b>ENSEMBLES CIBLES DE FAISCEAU D'IONS POUR LA GENERATION DE NEUTRONS</b></p> <p>[72] GRIBB, TYE, US</p> <p>[72] RADEL, ROSS, US</p> <p>[71] PHOENIX NEUTRON IMAGING LLC, US</p> <p>[22] 2019-06-04</p> <p>[41] 2019-12-12</p> <p>[62] 3,102,292</p> <p>[30] US (62/681,432) 2018-06-06</p>	<p>[25] EN</p> <p>[54] <b>TEETH REPOSITIONING SYSTEMS AND METHODS</b></p> <p>[54] <b>SYSTEMES ET PROCEDES DE REPOSITIONNEMENT DE DENTS</b></p> <p>[72] ROEIN PEIKAR, SEYED MEHDI, US</p> <p>[72] WRATTEN, JAMES SYLVESTER, JR., US</p> <p>[71] BRIUS TECHNOLOGIES, INC., US</p> <p>[22] 2016-12-06</p> <p>[41] 2017-06-15</p> <p>[62] 3,006,766</p> <p>[30] US (62/263,659) 2015-12-06</p> <p>[30] US (62/352,025) 2016-06-20</p> <p>[30] US (62/393,526) 2016-09-12</p> <p>[30] US (15/370,704) 2016-12-06</p>
<p>[21] <b>3,225,453</b> [13] A1</p> <p>[51] <b>Int.Cl. C12N 15/62 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/64 (2006.01) C12N 15/85 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>HUMAN MESOTHELIN CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF</b></p> <p>[54] <b>RECEPTEURS ANTIGENIQUES CHIMERIQUES DE LA MESOTHELINE HUMAINE ET LEURS UTILISATIONS</b></p> <p>[72] BEATTY, GREGORY, US</p> <p>[72] ENGELS, BORIS, US</p> <p>[72] IDAMAKANTI, NEERAJA, US</p> <p>[72] JUNE, CARL H., US</p> <p>[72] LOEW, ANDREAS, US</p> <p>[72] SONG, HUIJUAN, CN</p> <p>[72] WU, QILONG, US</p> <p>[71] NOVARTIS AG, CH</p> <p>[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US</p> <p>[22] 2014-12-19</p> <p>[41] 2015-06-25</p> <p>[62] 2,931,684</p> <p>[30] CN (PCT/CN2013/089979) 2013-12-19</p> <p>[30] CN (PCT/CN2014/082610) 2014-07-21</p> <p>[30] CN (PCT/CN2014/090509) 2014-11-06</p>	<p>[21] <b>3,225,507</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>ATRAUMATICALLY FORMED TISSUE COMPOSITIONS, DEVICES AND METHODS OF PREPARATION AND TREATMENT</b></p> <p>[54] <b>COMPOSITIONS TISSULAIRES FORMEES DE MANIERE ATRAUMATIQUE, DISPOSITIFS ET PROCEDES DE PREPARATION ET METHODES DE TRAITEMENT</b></p> <p>[72] DAVENPORT, THOMAS ANDREW, US</p> <p>[72] MULHAUSER, PAUL, US</p> <p>[72] GUINAN, GREGORY, US</p> <p>[71] TISSUEMILL TECHNOLOGIES LLC, US</p> <p>[22] 2020-05-04</p> <p>[41] 2020-11-12</p> <p>[62] 3,138,539</p> <p>[30] US (62/843,724) 2019-05-06</p> <p>[30] US (62/844,232) 2019-05-07</p> <p>[30] US (16/584,755) 2019-09-26</p>	<p>[21] <b>3,225,537</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>SYSTEMS AND METHODS FOR TATTOO REMOVAL USING COLD PLASMA</b></p> <p>[54] <b>SYSTEMES ET PROCEDES D'ENLEVEMENT DE TATOUAGE A L'AIDE D'UN PLASMA FROID</b></p> <p>[72] WINKELMAN, JAMES W., US</p> <p>[72] SCHMIEG, MARTIN E., US</p> <p>[71] CLEAR INTRADERMAL TECHNOLOGIES, INC., US</p> <p>[22] 2016-05-16</p> <p>[41] 2016-11-24</p> <p>[62] 2,986,031</p> <p>[30] US (62/162,180) 2015-05-15</p>

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,225,593**  
[13] A1

[51] **Int.Cl. C12Q 1/70 (2006.01) C12Q 1/6818 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/6888 (2018.01) C12M 1/34 (2006.01) C40B 30/04 (2006.01) C40B 40/06 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS TO DETECT METAPNEUMOVIRUS NUCLEIC ACIDS**

[54] **METHODS AND COMPOSITIONS TO DETECT METAPNEUMOVIRUS NUCLEIC ACIDS**

[72] MAJLESSI, MEHRDAD R., US  
[72] SHAH, ANKUR H., US  
[72] HILLIUS, AMBER, US  
[72] DOUGLASS, PAMELA, US  
[72] KOLK, DANIEL, US  
[71] GEN-PROBE INCORPORATED, US  
[22] 2018-03-23  
[41] 2018-10-04  
[62] 3,056,135  
[30] US (62/476,753) 2017-03-25

[21] **3,225,611**  
[13] A1

[51] **Int.Cl. C04B 28/04 (2006.01) C04B 7/04 (2006.01) C04B 14/14 (2006.01) C04B 14/28 (2006.01) C04B 18/06 (2006.01) C04B 18/14 (2006.01) C04B 22/06 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR CONCRETE PRODUCTION**

[54] **PROCEDES ET COMPOSITIONS PERMETTANT DE FABRIQUER DU BETON**

[72] NIVEN, ROBERT, CA  
[72] MONKMAN, GEORGE SEAN, CA  
[72] FORGERON, DEAN PAUL, CA  
[72] CAIL, KEVIN, US  
[72] BROWN, JOSHUA JEREMY, CA  
[72] SANDBERG, PAUL J., US  
[72] MACDONALD, MARK, CA  
[71] CARBONCURE TECHNOLOGIES INC., CA  
[22] 2014-06-25  
[41] 2014-12-31  
[62] 3,120,472  
[30] US (61/839,312) 2013-06-25  
[30] US (61/847,254) 2013-07-17  
[30] US (61/879,049) 2013-09-17  
[30] US (61/925,100) 2014-01-08  
[30] US (61/938,063) 2014-02-10  
[30] US (14/249,308) 2014-04-09  
[30] US (61/980,505) 2014-04-16

[21] **3,225,612**  
[13] A1

[25] EN

[54] **TWO-DIMENSIONAL CODE ERROR CORRECTION DECODING**

[54] **DECODAGE DE CORRECTION D'ERREUR DE CODE BIDIMENSIONNEL**

[72] YANG, CHONGLING, CN  
[71] 10353744 CANADA LTD., CA  
[22] 2017-12-29  
[41] 2019-03-28  
[62] 3,069,587  
[30] CN (201710857442.1) 2017-09-21

[21] **3,225,619**  
[13] A1

[25] EN

[54] **METHOD AND SYSTEM FOR HARVESTING BIOLOGICAL TISSUE**

[54] **PROCEDE ET SYSTEME DE PRELEVEMENT DE TISSU BIOLOGIQUE**

[72] GUILLES, MARVIN A., US  
[72] LABOMBARD, DENIS, US  
[72] SIDOTI, CHARLES, US  
[72] LEVIN, PHIL, US  
[72] SWYST, THOMAS, US  
[72] SABIR, SAMEER, US  
[71] MEDLINE INDUSTRIES, LP, US  
[22] 2016-04-21  
[41] 2016-10-27  
[62] 2,987,900  
[30] US (62/151,209) 2015-04-22  
[30] US (14/958,322) 2015-12-03  
[30] US (14/957,846) 2015-12-03  
[30] US (14/958,305) 2015-12-03

[21] **3,225,628**  
[13] A1

[25] EN

[54] **MULTI-FIELD SCANNING TOOLS IN MATERIALS HANDLING VEHICLES**

[54] **OUTILS DE BALAYAGE A CHAMPS MULTIPLES DANS DES VEHICULES DE MANUTENTION DE MATERIAUX**

[72] POSCHL, FRANZ, DE  
[72] WELLMAN, TIMOTHY A., US  
[72] HANNEMAN, STEFAN, DE  
[72] OKROY, MARTIN, DE  
[72] SAUER, STEFAN, DE  
[72] DONNELLY, JESS, NZ  
[71] CROWN EQUIPMENT CORPORATION, US  
[22] 2017-08-25  
[41] 2018-03-01  
[62] 3,035,095  
[30] US (62/380,145) 2016-08-26

[21] **3,225,647**  
[13] A1

[25] EN

[54] **WIRES OF SUPERELASTIC NICKEL-TITANIUM ALLOY AND METHODS OF FORMING THE SAME**

[54] **FILS D'ALLIAGE NICKEL-TITANE SUPER-ELASTIQUE ET LEURS PROCEDES DE FORMATION**

[72] KUMAR, PARIKSHITH K., US  
[71] W. L. GORE & ASSOCIATES, INC., US  
[22] 2020-09-25  
[41] 2021-04-01  
[62] 3,150,096  
[30] US (62/907,500) 2019-09-27

[21] **3,225,651**  
[13] A1

[25] EN

[54] **GEAR DRIVE FOR AIR DRIVEN VEHICLES**

[54] **TRANSMISSION PAR ENGENRAGES DESTINEE A DES VEHICULES A ENTRAINEMENT PNEUMATIQUE**

[72] EAKIN, SHAWN MICHAEL, US  
[72] EAKIN, ROBERT CHARLES, US  
[71] CENTURY DRIVE SYSTEMS, US  
[22] 2017-10-31  
[41] 2018-04-30  
[62] 2,984,258  
[30] US (62/415,193) 2016-10-31

## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

<p>[25] EN [54] <b>COMPOSITIONS, METHODS AND KITS TO DETECT ADENOVIRUS, METAPNEUMOVIRUS, AND/OR RHINOVIRUS NUCLEIC ACIDS</b></p> <p>[54] [72] MAJLESSI, MEHRDAD R., US [72] SHAH, ANKUR H., US [72] HILLIUS, AMBER, US [72] DOUGLASS, PAMELA, US [72] KOLK, DANIEL, US [71] GEN-PROBE INCORPORATED, US [22] 2018-03-23 [41] 2018-10-04 [62] 3,056,135 [30] US (62/476,753) 2017-03-25</p>	<p>[21] <b>3,225,653</b> [13] A1</p>	<p>[25] EN [54] <b>MODIFY VEHICLE PARAMETER BASED ON VEHICLE POSITION INFORMATION</b></p> <p>[54] <b>MODIFICATION DE PARAMETRE DE VEHICULE EN FONCTION D'INFORMATIONS DE POSITION DE VEHICULE</b></p> <p>[72] THEOS, SEBASTIAN, US [72] SIMON, ANDREAS, US [72] BUCHMANN, JUERGEN, US [72] KONZACK, RENE, US [72] MOLNAR, CHRISTIAN, US [72] COSTAS, ALFONSO, US [71] CROWN EQUIPMENT CORPORATION, US [22] 2021-02-17 [41] 2021-08-26 [62] 3,163,140 [30] US (62/979,916) 2020-02-21</p>	<p>[21] <b>3,225,797</b> [13] A1</p>	<p>[25] EN [54] <b>SYSTEMS AND METHODS FOR PROCESSING IMAGES OF SLIDES TO AUTOMATICALLY PRIORITIZE THE PROCESSED IMAGES OF SLIDES FOR DIGITAL PATHOLOGY</b></p> <p>[54] <b>SYSTEMES ET PROCEDES DE TRAITEMENT D'IMAGES DE LAMES POUR HIERARCHISER AUTOMATIQUEMENT LES IMAGES DE LAMES TRAITÉES POUR UNE PATHOLOGIE NUMERIQUE</b></p> <p>[72] GODRICH, RAN, US [72] SUE, JILLIAN, US [72] GRADY, LEO, US [72] FUCHS, THOMAS, US [71] PAIGE.AI, INC., US [22] 2020-05-29 [41] 2020-12-03 [62] 3,137,860 [30] US (62/855,199) 2019-05-31</p>	<p>[21] <b>3,225,860</b> [13] A1</p>
<p>[25] EN [54] <b>PHARMACEUTICAL COMPOUNDING METHODS AND SYSTEMS</b></p> <p>[54] <b>METHODES ET SYSTEMES DE MELANGE PHARMACEUTIQUE</b></p> <p>[72] DANOPOULOS, PANAGIOTA, CA [72] JOINER, MARC, CA [72] NYAT PENG WONG, SARAH, CA [72] TALEBI, VARGHA, CA [72] BADER, PATRICK-MARTIN, CA [71] MEDISCA PHARMACEUTIQUE INC., CA [22] 2017-11-10 [41] 2018-05-17 [62] 3,131,129 [30] US (62/420,426) 2016-11-10</p>	<p>[21] <b>3,225,672</b> [13] A1</p>	<p>[51] <b>Int.Cl. A62C 37/08 (2006.01) B05B 1/26 (2006.01)</b></p> <p>[25] EN [54] <b>FIRE SUPPRESSION SPRINKLER AND DEFLECTOR</b></p> <p>[54] <b>GICLEUR D'INCENDIE ET DEFLECTEUR</b></p> <p>[72] WACHO, THOMAS F., US [71] VICTAULIC COMPANY, US [22] 2019-02-22 [41] 2019-09-12 [62] 3,157,285 [30] US (62/640,208) 2018-03-08</p>	<p>[21] <b>3,225,847</b> [13] A1</p>	<p>[25] EN [54] <b>COMPOSITIONS, METHODS AND KITS TO DETECT ADENOVIRUS, METAPNEUMOVIRUS, AND/OR RHINOVIRUS NUCLEIC ACIDS</b></p> <p>[54] [72] MAJLESSI, MEHRDAD R., US [72] SHAH, ANKUR H., US [72] HILLIUS, AMBER, US [72] DOUGLASS, PAMELA, US [72] KOLK, DANIEL, US [71] GEN-PROBE INCORPORATED, US [22] 2018-03-23 [41] 2018-10-04 [62] 3,056,135 [30] US (62/476,753) 2017-03-25</p>	<p>[21] <b>3,225,861</b> [13] A1</p>

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,225,865**  
[13] A1

[25] EN  
[54] **METHOD FOR PRODUCING HIGHLY UNSATURATED FATTY ACID OR HIGHLY UNSATURATED FATTY ACID ETHYL ESTER WITH REDUCED ENVIRONMENTAL POLLUTANTS**  
[54] **METHODE DE PRODUCTION D'ACIDE GRAS TRES INSATURE OU D'ESTER ETHYLIQUE D'ACIDE GRAS TRES INSATURE PRESENTANT UNE REDUCTION DES POLLUANTS ENVIRONNEMENTAUX**  
[72] DOISAKI, NOBUSHIGE, JP  
[72] HATA, KAZUHIKO, JP  
[72] TOKIWA, SHINJI, JP  
[72] MATSUSHIMA, KAZUNORI, JP  
[71] NISSUI CORPORATION, JP  
[22] 2013-05-14  
[41] 2013-11-21  
[62] 2,873,160  
[30] JP (2012-110809) 2012-05-14

[21] **3,225,867**  
[13] A1

[25] EN  
[54] **METHODS, CARRIER ASSEMBLIES, AND SYSTEMS FOR IMAGING SAMPLES FOR BIOLOGICAL OR CHEMICAL ANALYSIS**  
[54] **PROCEDES, ENSEMBLES DE SUPPORT, ET SYSTEMES POUR L'IMAGERIE D'ECHANTILLONS POUR UNE ANALYSE BIOLOGIQUE OU CHIMIQUE**  
[72] RAWLINGS, STEPHEN, GB  
[72] NAGARAJA RAO, VENKATESH MYSORE, SG  
[72] ANG, BENG KEONG, SG  
[72] UDPA, NITIN, US  
[71] ILLUMINA, INC., US  
[71] ILLUMINA CAMBRIDGE LIMITED, GB  
[22] 2016-03-22  
[41] 2016-09-29  
[62] 3,077,811  
[30] US (62/137,600) 2015-03-24

[21] **3,225,874**  
[13] A1

[25] EN  
[54] **DUAL SCRUBBER VEHICLE TREATMENT BRUSH ASSEMBLY**  
[54] **ENSEMBLE DE BROSSES DE TRAITEMENT DE VEHICULE A DOUBLE BROSEUSE**  
[72] BELANGER, MICHAEL, US  
[72] KOTRYCH, JERRY, US  
[72] TOGNETTI, DAVID, US  
[71] WASHME PROPERTIES, LLC, US  
[22] 2017-03-13  
[41] 2017-09-14  
[62] 3,017,507  
[30] US (15/067,423) 2016-03-11

[21] **3,225,876**  
[13] A1

[25] EN  
[54] **SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR ENHANCED PERFORMANCE VERIFICATION FOR THERAPEUTIC GAS DELIVERY**  
[54] **SYSTEMES ET PROCEDES DE GESTION DE SOURCE DE GAZ INTELLIGENTE, ET/OU SYSTEMES ET PROCEDES D'ADMINISTRATION DE GAZ THERAPEUTIQUE ET/OU DE VERIFICATION DE PERFORMANCE AMELIOREE POUR L'ADMINISTRATION DE GAZ THERAPEUTIQUE**  
[72] ACKER, JARON M., US  
[72] FALLIGANT, JOHN C., US  
[72] MILSAP, JEFF, US  
[72] ROEHL, ROBIN, US  
[72] SCHMIDT, JEFFREY, US  
[72] TOLMIE, CRAIG R., US  
[71] INO THERAPEUTICS LLC, US  
[22] 2015-05-11  
[41] 2015-11-12  
[62] 2,941,761  
[30] US (61/991,083) 2014-05-09  
[30] US (61/991,028) 2014-05-09  
[30] US (61/991,032) 2014-05-09  
[30] US (14/709,298) 2015-05-11  
[30] US (14/709,308) 2015-05-11  
[30] US (14/709,316) 2015-05-11

[21] **3,225,878**  
[13] A1

[51] **Int.Cl. A61M 16/12 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR ENHANCED PERFORMANCE VERIFICATION FOR THERAPEUTIC GAS DELIVERY**  
[54] **SYSTEMES ET PROCEDES DE GESTION DE SOURCE DE GAZ INTELLIGENTE, ET/OU SYSTEMES ET PROCEDES D'ADMINISTRATION DE GAZ THERAPEUTIQUE ET/OU DE VERIFICATION DE PERFORMANCE AMELIOREE POUR L'ADMINISTRATION DE GAZ THERAPEUTIQUE**  
[72] ACKER, JARON M., US  
[72] FALLIGANT, JOHN C., US  
[72] MILSAP, JEFF, US  
[72] ROEHL, ROBIN, US  
[72] SCHMIDT, JEFFREY, US  
[72] TOLMIE, CRAIG R., US  
[71] INO THERAPEUTICS LLC, US  
[22] 2015-05-11  
[41] 2015-11-12  
[62] 2,941,761  
[30] US (61/991,083) 2014-05-09  
[30] US (61/991,028) 2014-05-09  
[30] US (61/991,032) 2014-05-09  
[30] US (14/709,298) 2015-05-11  
[30] US (14/709,308) 2015-05-11  
[30] US (14/709,316) 2015-05-11

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[21] **3,225,953**  
[13] A1

[25] EN  
[54] **TRANSMISSION METHOD AND NETWORK DEVICE**  
[54] **PROCEDE DE TRANSMISSION ET DISPOSITIF DE RESEAU**  
[72] WANG, RUI, CN  
[72] DAI, MINGZENG, CN  
[72] LUO, HAIYAN, CN  
[72] XU, XIAOYING, CN  
[72] GENG, TINGTING, CN  
[72] ZHANG, HONGZHUO, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[22] 2018-08-10  
[41] 2019-02-14  
[62] 3,072,715  
[30] CN (201710685352.9) 2017-08-11

## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] <b>3,225,957</b> [13] A1	[21] <b>3,225,993</b> [13] A1	[21] <b>3,226,004</b> [13] A1
<p>[25] EN</p> <p>[54] <b>CARBON DIOXIDE CHEMICAL SEQUESTRATION FROM INDUSTRIAL EMISSIONS BY CARBONATION</b></p> <p>[54] <b>SEQUESTRATION CHIMIQUE DU DIOXYDE DE CARBONE A PARTIR D'EMISSIONS INDUSTRIELLES PAR CARBONATATION</b></p> <p>[72] MERCIER, GUY, CA</p> <p>[72] BLAIS, JEAN-FRANCOIS, CA</p> <p>[72] CECCHI, EMMANUELLE, CA</p> <p>[72] PUTHIYA VEETIL, SANOOPKUMAR, IN</p> <p>[72] PASQUIER, LOUIS-CESAR, FR</p> <p>[72] KENTISH, SANDRA, AU</p> <p>[71] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA</p> <p>[22] 2013-03-07</p> <p>[41] 2013-09-12</p> <p>[62] 3,123,715</p> <p>[30] CA (2,771,111) 2012-03-07</p>	<p>[25] EN</p> <p>[54] <b>THE USE OF MONOTERPENE, SESQUITERPENE, OR THEIR DERIVATIVES TO PERMEABILIZE THE BLOOD BRAIN BARRIER</b></p> <p>[54] <b>UTILISATION DU MONOTERPENE, DU SESQUITERPENE OU DE LEURS DERIVES POUR PERMEABILISER LA BARRIERE HEMATO-ENCEPHALIQUE</b></p> <p>[72] CHEN, THOMAS, US</p> <p>[71] UNIVERSITY OF SOUTHERN CALIFORNIA, US</p> <p>[22] 2019-02-07</p> <p>[41] 2019-08-15</p> <p>[62] 3,101,475</p> <p>[30] US (62/627,933) 2018-02-08</p> <p>[30] US (62/716,190) 2018-08-08</p>	<p>[25] EN</p> <p>[54] <b>ADDITIVES FOR ELECTROLYTES IN LI-ION BATTERIES</b></p> <p>[54] <b>ADDITIFS POUR ELECTROLYTES DANS DES BATTERIES LI-ION</b></p> <p>[72] ZAGHIB, KARIM, CA</p> <p>[72] MALLET, CHARLOTTE, CA</p> <p>[72] ROCHON, SYLVIANE, CA</p> <p>[72] ZHAGHIB, KARIM, CA</p> <p>[71] HYDRO-QUEBEC, CA</p> <p>[71] MURATA MANUFACTURING CO., LTD., JP</p> <p>[22] 2019-10-03</p> <p>[41] 2020-04-09</p> <p>[62] 3,112,350</p> <p>[30] US (62/741,275) 2018-10-04</p>
<p style="text-align: center;">[21] <b>3,225,987</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>END TO END ENCRYPTION WITH ROAMING CAPABILITIES</b></p> <p>[54] <b>CHIFFREMENT DE BOUT EN BOUT AVEC CAPACITES D'ITINERANCE</b></p> <p>[72] HEINLEIN, PAUL, CA</p> <p>[71] OFFICE IRC INC., CA</p> <p>[22] 2023-04-27</p> <p>[41] 2023-12-01</p> <p>[62] 3,210,990</p> <p>[30] US (63/392,155) 2022-07-26</p>	<p style="text-align: center;">[21] <b>3,226,000</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>KEYPAD FOR CONTROLLING LOADS</b></p> <p>[54] <b>CLAVIER POUR COMMANDE DE CHARGES</b></p> <p>[72] BLAIR, EDWARD J., US</p> <p>[72] CHAMBERS, SAMUEL F., US</p> <p>[72] DRIZOS, GEORGE M., US</p> <p>[72] MCDONALD, MATTHEW P., US</p> <p>[71] LUTRON TECHNOLOGY COMPANY LLC, US</p> <p>[22] 2021-02-05</p> <p>[41] 2021-08-12</p> <p>[62] 3,167,161</p> <p>[30] US (62/971,591) 2020-02-07</p> <p>[30] US (63/018,761) 2020-05-01</p> <p>[30] US (63/086,826) 2020-10-02</p>	<p style="text-align: center;">[21] <b>3,226,009</b> [13] A1</p> <p>[51] <b>Int.Cl. H01M 10/056 (2010.01) H01M 10/0567 (2010.01) H01M 10/0525 (2010.01)</b></p> <p>[25] EN</p> <p>[54] <b>ADDITIVES FOR ELECTROLYTES IN LI-ION BATTERIES</b></p> <p>[54] <b>ADDITIFS POUR ELECTROLYTES DANS DES BATTERIES LI-ION</b></p> <p>[72] ZAGHIB, KARIM, CA</p> <p>[72] MALLET, CHARLOTTE, CA</p> <p>[72] ROCHON, SYLVIANE, CA</p> <p>[72] ZHAGHIB, KARIM, CA</p> <p>[71] MURATA MANUFACTURING CO., LTD., JP</p> <p>[71] HYDRO-QUEBEC, CA</p> <p>[22] 2019-10-03</p> <p>[41] 2020-04-09</p> <p>[62] 3,112,350</p> <p>[30] US (62/741,275) 2018-10-04</p>
		<p style="text-align: center;">[21] <b>3,226,017</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>TUBULAR PROSTHESES</b></p> <p>[54] <b>PROTHESES TUBULAIRES</b></p> <p>[72] NIKLASON, LAURA, US</p> <p>[72] HUANG, ANGELA, US</p> <p>[72] DAHL, SHANNON, US</p> <p>[72] ZHAO, LIPING, US</p> <p>[71] HUMACYTE, INC., US</p> <p>[71] YALE UNIVERSITY, US</p> <p>[22] 2012-10-12</p> <p>[41] 2013-04-18</p> <p>[62] 3,115,502</p> <p>[30] US (61/547,350) 2011-10-14</p>

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

<p style="text-align: center;">[21] <b>3,226,025</b> [13] A1</p> <p>[25] EN [54] <b>WEAR ASSEMBLY FOR EARTH WORKING EQUIPMENT</b> [54] <b>ENSEMBLE D'USURE POUR EQUIPEMENT DE DEBLAIEMENT DE TERRAIN</b> [72] SNYDER, CHRISTOPHER D., US [71] ESCO GROUP LLC, US [22] 2017-02-07 [41] 2017-08-17 [62] 3,014,044 [30] US (62/292,490) 2016-02-08</p>	<p style="text-align: center;">[21] <b>3,226,038</b> [13] A1</p> <p>[25] EN [54] <b>ELECTRIC VEHICLE PLATFORM</b> [54] <b>PLATEFORME DE VEHICULE ELECTRIQUE</b> [72] MCCARRON, DANIEL GEORGE, US [72] CHARBONNEAU, ALEXI, US [72] ROHR, WILLIAM J., US [72] GARMEL, CHARLES, US [72] HAEUSLER, FELIX, US [72] ROSSO, NATHANIEL RISLER, US [72] MASON, JOHN, US [72] AGRAWAL, MAYURKUMAR ASHOKBHAI, US [72] WEICKER, PHILLIP JOHN, US [72] MERCHANT, SOHEL, US [72] LYU, NAESUNG, US [72] ANG, CHUNG SHEN, US [72] WALSH, JEFFREY, US [71] CANOO TECHNOLOGIES INC., US [22] 2020-05-20 [41] 2020-11-26 [62] 3,141,572 [30] US (62/850,437) 2019-05-20 [30] US (62/869,823) 2019-07-02 [30] US (62/897,970) 2019-09-09 [30] US (62/903,709) 2019-09-20</p>	<p style="text-align: center;">[21] <b>3,226,066</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 31/575 (2006.01) A61P 19/04 (2006.01)</b> [25] EN [54] <b>TREATMENT FOR FIBROSIS</b> [54] [72] HAYARDENY-NISSIMOIV, LIAT, IL [72] GORFINE, TAL, IL [72] BAHARAFF, ALLEN, IL [72] MATO DE LA PAZ, JOSE M., ES [71] GALMED RESEARCH AND DEVELOPMENT LTD., IL [22] 2017-11-10 [41] 2018-05-17 [62] 3,152,584 [30] US (62/420,012) 2016-11-10 [30] US (62/420,017) 2016-11-10 [30] US (62/420,009) 2016-11-10 [30] US (62/475,129) 2017-03-22</p>
<p style="text-align: center;">[21] <b>3,226,026</b> [13] A1</p> <p>[25] EN [54] <b>SYSTEM AND METHOD FOR CONTROLLING A VEHICLE</b> [54] <b>SYSTEME ET PROCEDE DE COMMANDE D'UN VEHICULE</b> [72] NORSTAD, TIM P., US [72] GILLINGHAM, BRIAN R., US [72] FIELDS, JASON R., US [72] BRADY, LOUIS J., US [72] NELSON, STEPHEN L., US [71] POLARIS INDUSTRIES INC., US [22] 2015-10-23 [41] 2016-05-06 [62] 2,965,309 [30] US (62/073,724) 2014-10-31</p>	<p style="text-align: center;">[21] <b>3,226,056</b> [13] A1</p> <p>[25] EN [54] <b>NON-IMMUNOGENIC SINGLE DOMAIN ANTIBODIES</b> [54] <b>ANTICORPS A DOMAINE UNIQUE NON-IMMUNOGENES</b> [72] ECKELMAN, BRENDAN P., US [72] TIMMER, JOHN C., US [72] DEVERAUX, QUINN, US [71] INHIBRX, INC., US [22] 2016-01-21 [41] 2016-07-28 [62] 2,974,192 [30] US (62/106,035) 2015-01-21</p>	<p style="text-align: center;">[21] <b>3,226,095</b> [13] A1</p> <p>[25] EN [54] <b>SYSTEMS AND METHODS OF DETECTING MANIPULATIONS ON A BINARY OPTIONS EXCHANGE</b> [54] <b>SYSTEMES ET PROCEDES DE DETECTION DE MANIPULATIONS SUR UN ECHANGE D'OPTIONS BINAIRES</b> [72] JAYCOBS, RICH, US [72] GLANTZ, NOLAN, US [72] WALKER, JAMES LES, US [71] CFPH, LLC, US [22] 2014-02-21 [41] 2014-08-28 [62] 2,902,039 [30] US (61/768,117) 2013-02-22 [30] US (13/832,916) 2013-03-15 [30] US (13/832,955) 2013-03-15 [30] US (13/832,997) 2013-03-15</p>

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[21] **3,226,114**  
[13] A1

[25] EN  
[54] **METHOD FOR DETERMINING PERIVASCULAR WATER INDEX (PVWI)**  
[54]  
[72] ANTONIADES, CHARALAMBOS, GB  
[72] CHANNON, KEITH, GB  
[72] OIKONOMOU, EVANGELOS, GB  
[72] NEUBAUER, STEFAN, GB  
[71] OXFORD UNIVERSITY INNOVATION LIMITED, GB  
[22] 2017-10-31  
[41] 2018-05-03  
[62] 3,040,391  
[30] GR (20160100555) 2016-10-31  
[30] GB (1620494.3) 2016-12-02

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[21] **3,226,143**  
[13] A1

[51] **Int.Cl. G02C 7/02 (2006.01) G02C 7/06 (2006.01) G02C 7/16 (2006.01)**  
[25] EN  
[54] **SPECTACLE LENS DESIGN, SPECTACLE LENS KIT AND METHOD OF MANUFACTURING A SPECTACLE LENS**  
[54] **CONCEPTION DE VERRE DE LUNETTES, KIT DE VERRE DE LUNETTES ET PROCEDE DE FABRICATION D'UN VERRE DE LUNETTES**  
[72] BRAUNGER, DIETER, DE  
[71] CARL ZEISS VISION INTERNATIONAL GMBH, DE  
[22] 2021-11-26  
[41] 2022-06-02  
[62] 3,200,118  
[30] EP (20211634.9) 2020-11-26

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[21] **3,226,165**  
[13] A1

[25] EN  
[54] **THERAPEUTIC AND DIAGNOSTIC METHODS FOR MAST CELL-MEDIATED INFLAMMATORY DISEASES**  
[54] **PROCEDES THERAPEUTIQUES ET DE DIAGNOSTIC POUR DES MALADIES INFLAMMATOIRES MEDIEES PAR DES MASTOCYTES**  
[72] CHOY, DAVID F., US  
[72] STATON, TRACY LYN, US  
[72] YASPAN, BRIAN LOUIS, US  
[71] GENENTECH, INC., US  
[22] 2019-02-08  
[41] 2019-08-15  
[62] 3,088,557  
[30] US (62/628,564) 2018-02-09

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[21] **3,226,186**  
[13] A1

[25] EN  
[54] **USE OF THIN FILM CELL ENCAPSULATION DEVICES**  
[54]  
[72] DESAI, TEJAL A., US  
[72] NYITRAY, CRYSTAL, US  
[72] CHANG, RYAN, US  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[22] 2016-03-23  
[41] 2016-09-29  
[62] 3,018,694  
[30] US (62/136,997) 2015-03-23

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[21] **3,226,202**  
[13] A1

[51] **Int.Cl. C08F 212/14 (2006.01) H01M 4/13 (2010.01) H01M 10/0525 (2010.01) C08F 8/12 (2006.01) H01M 4/62 (2006.01)**  
[25] EN  
[54] **ADDITIVES FOR ELECTROLYTE AND CATHODE MATERIAL IN LI-ION BATTERIES COMPRISING METAL-BASED CATHODE MATERIAL WHICH PRODUCES M2+ METAL IONS**  
[54] **ADDITIFS POUR ELECTROLYTE ET MATERIAU DE CATHODE DANS LES BATTERIES A IONS LI COMPRENANT UN MATERIAU DE CATHODE A BASE DE METAL QUI PRODUIT DES IONS METALLIQUES M2+**  
[72] MALLET, CHARLOTTE, CA  
[72] DAIGLE, JEAN-CHRISTOPHE, CA  
[72] ROCHON, SYLVIANE, CA  
[72] ZAGHIB, KARIM, CA  
[71] HYDRO-QUEBEC, CA  
[71] MURATA MANUFACTURING CO., LTD., JP  
[22] 2019-08-13  
[41] 2020-02-20  
[62] 3,106,475  
[30] US (62/718,661) 2018-08-14  
[30] US (62/721,327) 2018-08-22

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[21] **3,226,205**  
[13] A1

[51] **Int.Cl. G01K 13/20 (2021.01)**  
[25] EN  
[54] **MULTI-CONFIGURATION THERMOMETER**  
[54] **THERMOMETRE A CONFIGURATION MULTIPLE**  
[72] HIRSCHHORN, CHELSEA, US  
[72] HACK, GREGARY ADAM, US  
[72] LEVEL, MARIA V., US  
[72] SAUCEDA, SAMUEL, US  
[72] SAXTON, MATTHEW, US  
[72] QIFENG, YOU, US  
[71] FRIDABABY, LLC, US  
[22] 2021-05-14  
[41] 2021-11-15  
[62] 3,118,646  
[30] US (16/875549) 2020-05-15



**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,226,208**  
[13] A1

[51] **Int.Cl. H04W 4/16 (2009.01) H04W 4/24 (2018.01) H04W 48/02 (2009.01)**  
[25] EN  
[54] **MOBILE ELECTRONIC COMMUNICATIONS WITH GRACE PERIOD**  
[54] **COMMUNICATIONS ELECTRONIQUES MOBILES COMPORTANT UNE PERIODE DE GRACE**  
[72] HUNTINGTON, TRISTAN, CA  
[72] TING, DEREK, CA  
[72] WONG, RICH, US  
[71] TEXTNOW, INC., CA  
[22] 2015-06-23  
[41] 2015-12-25  
[62] 2,895,455  
[30] US (62/016829) 2014-06-25

[21] **3,226,224**  
[13] A1

[25] EN  
[54] **DEVICE AND DIAGNOSTIC METHODS FOR INFECTIONS IN MAMMALS USING SERUM AMYLOID A**  
[54] **DISPOSITIF ET METHODES DE DIAGNOSTIC POUR LES INFECTIONS DANS LES MAMMIFERES AU MOYEN DE SERUM AMYLOIDE A**  
[72] ANHOLD, HEINRICH, IE  
[72] CANDON, RUTH, IE  
[72] CHAN, DI-SIEN, IE  
[71] EPONA BIOTECH LTD, IE  
[22] 2014-02-04  
[41] 2014-08-07  
[62] 2,900,156  
[30] GB (1301951.8) 2013-02-04  
[30] GB (1314232.8) 2013-08-08

[21] **3,226,233**  
[13] A1

[25] EN  
[54] **OPTIMAL SOYBEAN LOCI FOR TARGETED TRANSGENE INTEGRATION**  
[54]  
[72] SASTRY-DENT, LAKSHMI, US  
[72] CAO, ZEHUI, US  
[72] SRIRAM, SHREEDHARAN, US  
[72] WEBB, STEVEN R., US  
[72] CAMPER, DEBRA L., US  
[72] AINLEY, MICHAEL W., US  
[71] CORTEVA AGRISCIENCE LLC, US  
[22] 2014-11-03  
[41] 2015-05-07  
[62] 2,926,536  
[30] US (61/899,602) 2013-11-04

[21] **3,226,236**  
[13] A1

[51] **Int.Cl. A61K 33/00 (2006.01) A61K 33/06 (2006.01) A61K 33/14 (2006.01) A61P 9/00 (2006.01)**  
[25] EN  
[54] **TREATMENT METHODS HAVING REDUCED DRUG-RELATED TOXICITY AND METHODS OF IDENTIFYING THE LIKELIHOOD OF PATIENT HARM FROM PRESCRIBED MEDICATIONS**  
[54] **METHODES DE TRAITEMENT AYANT UNE TOXICITE MEDICAMENTEUSE REDUITE ET METHODES D'IDENTIFICATION DE LA NUISIBILITE DE MEDICAMENTS PRESCRITS POUR UN PATIENT**  
[72] TURGEON, JACQUES, US  
[72] STEFFEN, LAUREN, US  
[72] BADEA, GABRIEL, CA  
[71] TABULA RASA HEALTHCARE, INC., US  
[22] 2017-05-19  
[41] 2017-12-14  
[62] 3,024,989  
[30] US (62/338,704) 2016-05-19

[21] **3,226,287**  
[13] A1

[25] EN  
[54] **SYSTEMS AND METHODS FOR DETERMINING AT LEAST ONE PROPERTY OF A MATERIAL**  
[54] **SYSTEMES ET PROCEDES DE DETERMINATION D'AU MOINS UNE PROPRIETE D'UN MATERIAU**  
[72] ROGERS, BENJAMIN S., US  
[72] DUDLEY, CHRISTOPHER J., US  
[72] ADAMS, JESSE D., US  
[72] WHITTEN, RALPH G., US  
[72] WOODS, ALEXANDER C., US  
[72] HARTUNG, VAUGHN N., US  
[71] NEVADA NANOTECH SYSTEMS INC., US  
[22] 2017-08-10  
[41] 2018-02-22  
[62] 3,032,537  
[30] US (62/376,675) 2016-08-18  
[30] US (15/674,305) 2017-08-10

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COMMUNICATIONS LLC	2,995,937	DZIWOK, KLAUS	3,022,889	LIMITED	2,978,787
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DAGEVILLE, BENOIT	2,939,919	ERLER, SCOTT RICHARD	2,938,192	GROBECKER, MICHAEL	3,110,798
DAHLEH, ROUMANOS	3,003,355	ESKRA TECHNICAL		GROTTKE, OLIVER	3,046,406
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DANA-FARBER CANCER		ESKRA, MICHAEL DAVID	3,103,488	MOBILE TECHNOLOGY	
INSTITUTE, INC.	2,964,367	EVANS, DAVID MICHAEL	2,967,894	CO., LTD	3,006,001
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DELTA OF SWEDEN AB	2,975,848	FISH, ERIC NATHANIEL	2,975,528	COMMUNICATIONS, INC.	3,155,244
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DENTSPLY SIRONA INC.	3,162,338	FOOT, JONATHAN STUART	3,013,850	HASHASH, AHMAD	3,006,746
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ILB SOLUTIONS LTD.	3,206,636	MENDOZA, MARC	3,203,622	CORP.	3,206,553
ILGENFRITZ, MARKUS	3,206,430	MENKE, STEFAN	3,206,740	PRATT & WHITNEY CANADA	
ILKHANIZADEH, GORAN	3,168,072	MESHER, SHAUN T.	3,206,813	CORP.	3,206,561
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INTUIT INC.	3,194,183	MORRIS, JOHN WILLIAM	3,205,963	PUBLES, ANDY	3,206,661
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IONESCU, ADRIAN ARIEL	3,169,986	MULLER, THOMAS	3,206,044	PUNK, KEVIN	3,168,237
IONESCU, ADRIAN ARIEL	3,170,000	MULLER, THOMAS	3,206,047	QIAO, WEIHUA	3,206,697
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KIEFER, WILLIAM H.	3,206,722	NAZEMI, HALEH	3,206,566	ROVI GUIDES, INC.	3,206,827
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