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# The Patent Office Record

# La Gazette du Bureau des brevets



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Canada

CIPO OPIC

# 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

## 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

# Avis

## 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), siège 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

## Avis

### 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)).

### 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. 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:

- |   |      |
|---|------|
| a) for each request   | N/A  |
| 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 |

### 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 :

- |  |       |
|--|-------|
| a) pour chaque demande   | S.O.  |
| 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 mégaoctets qui excède 7 mégaoctets, l'excédant étant arrondi au multiple supérieur        | 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.

### 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.

## 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. 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.

## 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. 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.

## 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. List of Patents Available for Licence or Sale

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

None

## 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

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

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

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

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

<b>5. Handling fee (Rule 57.2(a))</b>	\$295
<b>6. Preliminary examination fee (Rule 58)</b>	\$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).

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**

## Preliminary Examination

<b>5. Taxe de traitement (Règle 57.2a))</b>	<b>295 \$</b>
<b>6. Taxe d'examen préliminaire (Règle 58)</b>	<b>800 \$</b>

\* 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. 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)).

## 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

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).

## Notices

(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. 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
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## 14. Procédures de correspondance

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

Lien Web pour le RPBB :

[http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h\\_wr00720.html](http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html)

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

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :  
<https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html>

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7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office
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8. Lois, règles et règlements sur la propriété intellectuelle

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

### **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

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. 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 renvoyés 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](#).

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

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

### 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,

### 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,

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except statutory holiday	l'exception des jours fériés
<ul style="list-style-type: none"><li>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</li></ul>	<ul style="list-style-type: none"><li>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</li></ul>
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
<ul style="list-style-type: none"><li>Innovation, Science and Economic Development Canada Library Square 300 West Georgia Street, Suite 2000 Vancouver BC V6B 6E1 Tel.: 604-666-5000</li></ul>	<ul style="list-style-type: none"><li>Innovation, Sciences et Développement économique Canada Library Square 300, rue Georgia Ouest, pièce 2000 Vancouver (C.-B.) V6B 6E1 Tél. : 604-666-5000</li></ul>
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 inconvenients 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'acquittement de droit ou taxe, il faut clairement indiquer le mode de paiement préféré sur le formulaire de paiements des frais afin d'assurer un traitement rapide.

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### Patents

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

### 2.2 Online

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

### Patents

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

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

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

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

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

### Trademarks

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

### Brevets

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

### 2.2 En ligne

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

### Brevets

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

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

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

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

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

### Marques de commerce

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

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accessing the following pages:

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

- [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](#)

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.

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.

## Copyright

## 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

## Avis

### 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 discrédition 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 "Stelligent 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 « Stelligent 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.

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 ½" 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.

## Avis

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.

## 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.

## 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)

Veuillez 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 règlementaire** 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 règlementaires** 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.

- 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 considérés 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.

## 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,

## 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.

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.

Veuillez 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. 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.

## 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. 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](#)

## 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 November 21, 2023 contains applications open to public inspection from November 5, 2023 to November 11, 2023.

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

La *Gazette du bureau des brevets* du 21 novembre 2023 contient les demandes disponibles au public pour consultation pour la période du 5 novembre 2023 au 11 novembre 2023.

# Canadian Patents Issued

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[25] EN  
[54] ZINC-FREE TRANSMISSION OIL COMPOSITIONS FOR CONSTRUCTION MACHINES  
[54] COMPOSITIONS D'HUILE DE TRANSMISSION SANS ZINC POUR DES MACHINES DE CONSTRUCTION  
[72] YAMAMOTO, SHUHEI, JP  
[72] SAKAMOTO, MASANOBU, JP  
[73] CHEVRON JAPAN LIMITED, JP  
[86] (2921910)  
[87] (2921910)  
[22] 2016-02-25  
[30] US (14/665737) 2015-03-23
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[11] **2,923,567**

[13] C

- [51] Int.Cl. B22F 3/16 (2006.01) C04B 35/64 (2006.01)  
[25] EN  
[54] METHOD OF FORMING A COMPONENT FROM A GREEN PART  
[54] METHODE DE FORMAGE D'UNE COMPOSANTE A PARTIR D'UNE PIECE A L'ETAT VERT  
[72] SCALZO, ORLANDO, CA  
[72] CAMPOMANES, MARC, CA  
[72] POITRAS, GUILLAUME, CA  
[73] PRATT & WHITNEY CANADA CORP., CA  
[86] (2923567)  
[87] (2923567)  
[22] 2016-03-10  
[30] US (14/656,342) 2015-03-12
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[11] **2,924,311**

[13] C

- [51] Int.Cl. A61K 36/15 (2006.01) A61K 31/192 (2006.01) A61P 1/00 (2006.01) A61P 31/00 (2006.01)  
[25] EN  
[54] A FEED SUPPLEMENT AND A FEED COMPOSITION COMPRISING RESIN ACID BASED COMPOSITION  
[54] ALIMENT COMPLEMENTAIRE ET COMPOSITION D'ALIMENT POUR ANIMAUX COMPRENANT UNE COMPOSITION A BASE D'ACIDE RESINIQUE  
[72] RINTOLA, MIKKO, FI  
[72] ORTE, JUHA, FI  
[72] VUORENMAA, JUHANI, FI  
[73] HANKKIJA OY, FI  
[73] FORCHEM OY, FI  
[85] 2016-03-11  
[86] 2014-11-05 (PCT/FI2014/050832)  
[87] (WO2015/071534)  
[30] FI (20136113) 2013-11-13

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<p style="text-align: right;">[11] <b>2,924,902</b> [13] C</p> <p>[51] Int.Cl. B22D 17/20 (2006.01) B22C 9/22 (2006.01) [25] EN [54] MOLD ASSEMBLY AND GUIDE ELEMENT THEREOF [54] ENSEMBLE DE MOULE ET ELEMENT GUIDE ASSOCIE [72] CAMPOMANES, MARC, CA [72] SCALZO, ORLANDO, CA [73] PRATT &amp; WHITNEY CANADA CORP., CA [86] (2924902) [87] (2924902) [22] 2016-03-23 [30] US (62/138,574) 2015-03-26 [30] US (14/683,371) 2015-04-10</p>	<p style="text-align: right;">[11] <b>2,931,259</b> [13] C</p> <p>[51] Int.Cl. C12N 15/82 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C07K 14/325 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 15/32 (2006.01) C12N 15/63 (2006.01) [25] EN [54] AXMI477, AXMI482, AXMI486 AND AXMI525 TOXIN GENES AND METHODS FOR THEIR USE [54] GENES DE TOXINES AXMI477, AXMI482, AXMI486 ET AXMI525 ET PROCEDES D'UTILISATION DE CEUX-CI [72] LEHTINEN, DUANE ALAN, US [72] SAMPSON, KIMBERLY S., US [72] ROBERTS, KIRA, US [72] DUNN, ETHAN, US [72] CHOUGULE, NANA, US [73] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US [85] 2016-05-19 [86] 2014-12-08 (PCT/US2014/068989) [87] (WO2015/088937) [30] US (61/913,905) 2013-12-09 [30] US (61/913,911) 2013-12-09</p>	<p style="text-align: right;">[11] <b>2,934,223</b> [13] C</p> <p>[51] Int.Cl. H01R 13/53 (2006.01) H01R 13/70 (2006.01) [25] EN [54] POWER CONNECTOR, AND ELECTRICAL CONNECTION ELEMENT AND ARC SUPPRESSION METHOD THEREFOR [54] CONNECTEUR D'ALIMENTATION ET ELEMENT DE CONNEXION ELECTRIQUE ET METHODE DE SUPPRESSION D'ARC ASSOCIEE [72] JUDS, MARK ALLAN, US [72] HASTINGS, JEROME KENNETH, US [72] KRSTIC, SLOBODAN, US [72] ECKROTH, KURT VON, US [73] EATON INTELLIGENT POWER LIMITED, IE [86] (2934223) [87] (2934223) [22] 2016-06-23 [30] US (14/800,787) 2015-07-16</p>
<p style="text-align: right;">[11] <b>2,925,554</b> [13] C</p> <p>[51] Int.Cl. H01M 10/056 (2010.01) C07D 233/90 (2006.01) H01M 10/0525 (2010.01) [25] FR [54] COMPOSITION INCLUDING A PENTACYCLIC ANION SALT AND USE THEREOF AS A BATTERY ELECTROLYTE [54] COMPOSITION COMPRENANT UN SEL D'ANION PENTACYCLIQUE ET SON UTILISATION COMME ELECTROLYTE DE BATTERIE [72] SCHMIDT, GREGORY, FR [72] VAN HEMELRYCK, BRUNO, FR [73] ARKEMA FRANCE, FR [85] 2016-03-29 [86] 2014-09-22 (PCT/FR2014/052348) [87] (WO2015/049435) [30] FR (1359602) 2013-10-03</p>	<p style="text-align: right;">[11] <b>2,933,937</b> [13] C</p> <p>[51] Int.Cl. E06B 9/32 (2006.01) E06B 7/086 (2006.01) E06B 9/72 (2006.01) [25] EN [54] SHUTTER ASSEMBLY WITH MOTORIZED LOUVER DRIVE SYSTEM [54] ENSEMBLE DE VOLET DOTE D'UN MECANISME D'ENTRAINEMENT DE PERSIENNES MOTORISE [72] MEYERINK, LARRY, CA [72] BATTE, ANTHONY, CA [72] GRUBB, DEAN, CA [73] HUNTER DOUGLAS INC., US [86] (2933937) [87] (2933937) [22] 2016-06-23 [30] US (62/184,282) 2015-06-25 [30] US (62/188,276) 2015-07-02 [30] US (62/202,746) 2015-08-07 [30] US (62/252,598) 2015-11-09 [30] US (62/293,337) 2016-02-10 [30] US (62/300,075) 2016-02-26</p>	<p style="text-align: right;">[11] <b>2,934,644</b> [13] C</p> <p>[51] Int.Cl. C07K 16/00 (2006.01) A61K 38/00 (2006.01) A61K 38/17 (2006.01) [25] EN [54] FCRN ANTAGONISTS AND METHODS OF USE [54] ANTAGONISTES DU FCRN ET PROCEDES D'UTILISATION [72] ULRICHTS, PETER, NL [72] BLANCHETOT, CHRISTOPHE, NL [72] DREIER, TORSTEN, NL [72] DE HAARD, JOHANNES, NL [72] WARD OBER, E. SALLY, US [72] ONGENAE, NICOLAS G.H., NL [73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US [73] ARGENX BV, NL [85] 2016-06-20 [86] 2014-12-23 (PCT/US2014/072087) [87] (WO2015/100299) [30] US (61/920,547) 2013-12-24</p>
<p style="text-align: right;">[11] <b>2,925,788</b> [13] C</p> <p>[51] Int.Cl. E01H 5/02 (2006.01) A01B 1/02 (2006.01) E02F 3/02 (2006.01) [25] EN [54] AUTOMATIC LIFT AND TOSS SHOVEL [54] PELLE A SOULEVEMENT ET LANCEMENT AUTOMATIQUES [72] STENZEL, KENT, US [72] CORDELL, DALE, US [73] STENTEK MECHANICAL DESIGN, INC., US [86] (2925788) [87] (2925788) [22] 2016-03-31 [30] US (14701498) 2015-04-30</p>		

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[11] **2,938,124**  
[13] C

- [51] Int.Cl. F01D 5/16 (2006.01) F01D 25/06 (2006.01) F04D 29/66 (2006.01)  
[25] EN  
[54] MISTUNED FAN  
[54] VENTILATEUR DESYNCHRONISE  
[72] THERATIL, IGNATIUS, CA  
[72] BALIKE, KRISHNA PRASAD, CA  
[72] IVAKITCH, RICHARD, CA  
[72] KELLY, SEAN MICHAEL, CA  
[72] TOWNSEND, PETER, CA  
[72] DUTTON, RONALD, CA  
[72] STONE, PAUL, CA  
[72] VENDITTI, ROBERT, CA  
[72] FUDGE, DANIEL, CA  
[72] KOJOVIC, MILICA, CA  
[72] ABATE, ALDO, CA  
[73] PRATT & WHITNEY CANADA CORP., CA  
[86] (2938124)  
[87] (2938124)  
[22] 2016-08-04  
[30] US (14/976,701) 2015-12-21
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[11] **2,938,757**  
[13] C

- [51] Int.Cl. G06Q 30/0214 (2023.01) G06F 21/62 (2013.01) G06F 16/27 (2019.01)  
[25] EN  
[54] SYSTEMS AND METHODS FOR MONITORING REFERRALS  
[54] SYSTEME ET METHODE DE SURVEILLANCE DE REFERENCES  
[72] CHAN, PAUL MON-WAH, CA  
[72] BARNETT, JONATHAN K., CA  
[72] LEE, JOHN JONG SUK, CA  
[73] THE TORONTO-DOMINION BANK, CA  
[86] (2938757)  
[87] (2938757)  
[22] 2016-08-12  
[30] US (62/204,768) 2015-08-13
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[11] **2,939,083**  
[13] C

- [51] Int.Cl. A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/178 (2006.01)  
[25] EN  
[54] INFUSION PUMP WITH PROGRAM KEY  
[54] POMPE DE PERfusion AVEC CLE DE PROGRAMMATION  
[72] NGUYEN, TONY, US  
[73] BECTON, DICKINSON AND COMPANY, US  
[85] 2016-08-08  
[86] 2015-02-12 (PCT/US2015/015598)  
[87] (WO2015/126721)  
[30] US (61/943,718) 2014-02-24
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[11] **2,944,084**  
[13] C

- [51] Int.Cl. H04W 8/20 (2009.01) H04W 4/24 (2018.01) G06Q 20/32 (2012.01)  
[25] EN  
[54] PROVISIONING OF SECURE APPLICATION  
[54] FOURNITURE D'UNE APPLICATION SECURISEE  
[72] SALAMA, HISHAM IBRAHIM, CA  
[72] CHAN, PAUL MON-WAH, CA  
[72] LEE, JOHN JONG SUK, CA  
[73] THE TORONTO-DOMINION BANK, CA  
[86] (2944084)  
[87] (2944084)  
[22] 2016-10-04
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[11] **2,946,641**  
[13] C

- [51] Int.Cl. E05B 47/00 (2006.01)  
[25] EN  
[54] SECURE ACCESS TO PHYSICAL RESOURCES USING ASYMMETRIC CRYPTOGRAPHY  
[54] ACCES SECURISE A DES RESSOURCES PHYSIQUES PAR CRYPTOGRAPHIE ASYMETRIQUE  
[72] KLINK, JEROD D., CA  
[72] LITTLE, HERB, CA  
[73] SERA4 LTD., CA  
[86] (2946641)  
[87] (2946641)  
[22] 2016-10-27  
[30] US (15/332057) 2016-10-24
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[11] **2,946,902**  
[13] C

- [51] Int.Cl. A63B 71/06 (2006.01) H04W 84/18 (2009.01) A41D 13/012 (2006.01) A63B 69/00 (2006.01) A63B 69/12 (2006.01) G06F 1/16 (2006.01) G06F 15/00 (2006.01)  
[25] EN  
[54] WIRELESS METRIC CALCULATING AND FEEDBACK APPARATUS, SYSTEM, AND METHOD  
[54] APPAREIL, SYSTEME ET PROCEDE DE RETROACTION ET DE CALCUL DE METRIQUE SANS FIL  
[72] LEHARI, TRISTAN VINCENT HULBERT, CA  
[73] TRITONWEAR INC., CA  
[85] 2016-10-25  
[86] 2015-04-29 (PCT/CA2015/000275)  
[87] (WO2015/164944)  
[30] US (61/985,681) 2014-04-29
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[11] **2,947,295**  
[13] C

- [51] Int.Cl. A61B 3/107 (2006.01) A61B 3/00 (2006.01) A61B 3/14 (2006.01)  
[25] EN  
[54] GRADING CORNEAL FLUORESCIN STAINING  
[54] CLASSEMENT DE COLORATION CORNEENNE A LA FLUORESCINE  
[72] DANA, REZA, US  
[72] PULIDO, FRANCISCO L. AMPARO, US  
[72] WANG, HAOBING, US  
[73] MASSACHUSETTS EYE AND EAR INFIRMARY, US  
[85] 2016-10-27  
[86] 2015-05-01 (PCT/US2015/028907)  
[87] (WO2015/168629)  
[30] US (61/988,144) 2014-05-02

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**[11] 2,948,191**  
[13] C

- [51] Int.Cl. C10G 1/06 (2006.01) C10G 1/00 (2006.01)  
[25] EN  
[54] FEED MIXTURE FOR PRODUCING HYDROCARBONS  
[54] MELANGE D'ALIMENTATION UTILISABLE EN VUE DE LA PRODUCTION D'HYDROCARBURES  
[72] IVERSEN, STEEN BRUMMERSTEDT, DK  
[72] OLOFSSON, GORAN, SE  
[73] STEEPER ENERGY APS, DK  
[85] 2016-11-04  
[86] 2015-05-05 (PCT/DK2015/050113)  
[87] (WO2015/169319)  
[30] DK (PA 2014 00245) 2014-05-05
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**[11] 2,948,198**  
[13] C

- [51] Int.Cl. C12N 15/55 (2006.01) A61K 38/46 (2006.01) A61P 31/18 (2006.01) C12N 9/22 (2006.01) C12N 15/00 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01) C07K 14/715 (2006.01)  
[25] EN  
[54] TAL-EFFECTOR NUCLEASE FOR TARGETED KNOCKOUT OF THE HIV CO-RECEPTOR CCR5  
[54] NUCLEASE EFFECTRICE TAL POUR LE KNOCK-OUT CIBLE DU CO-RECEPTEUR DU VIH CCR5  
[72] MOCK, ULRIKE, GB  
[72] FEHSE, BORIS, DE  
[73] ADVANCED GENE & CELL TECHNOLOGIES LLC (AGCT LLC), RU  
[85] 2016-11-07  
[86] 2015-05-04 (PCT/DE2015/200295)  
[87] (WO2015/169314)  
[30] DE (10 2014 106 327.9) 2014-05-07
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**[11] 2,949,582**  
[13] C

- [51] Int.Cl. A41D 11/00 (2006.01)  
[25] EN  
[54] BABY SLEEPING GARMENT  
[54] PYJAMA POUR BEBE  
[72] VILLARREAL, LOURDES, AU  
[73] S & M TRADING PTY LTD., AU  
[86] (2949582)  
[87] (2949582)  
[22] 2016-11-24  
[30] AU (2016900452) 2016-02-10
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**[11] 2,950,477**  
[13] C

- [51] Int.Cl. B32B 3/06 (2006.01) B32B 3/08 (2006.01) B32B 3/14 (2006.01) B32B 3/22 (2006.01) B32B 7/08 (2019.01) B32B 21/13 (2006.01) E04B 1/98 (2006.01) E04C 2/26 (2006.01) E04C 2/38 (2006.01) E04H 9/14 (2006.01)  
[25] EN  
[54] BLAST PANEL ASSEMBLY  
[54] ASSEMBLAGE DE PANNEAUX D'EXPLOSION  
[72] DANTZER, HUGH A., CA  
[72] EL-DOMIATY, KHALED, US  
[73] STONE PROTECTIVE SOLUTIONS, LLC, US  
[86] (2950477)  
[87] (2950477)  
[22] 2016-12-02
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**[11] 2,954,286**  
[13] C

- [51] Int.Cl. G06K 7/10 (2006.01) G06K 7/14 (2006.01)  
[25] EN  
[54] IMAGING AND PERIPHERAL ENHANCEMENTS FOR MOBILE DEVICES  
[54] REHAUSSEMENTS D'IMAGERIE ET PERIPHERIQUES POUR DES DISPOSITIFS MOBILES  
[72] KOWALCZYK, MATTHEW, US  
[72] MENON, MANAS, US  
[72] HACK, BRIAN, US  
[72] FOSTER, DAVIS, US  
[72] GULBINAS, JASON, US  
[72] HARADA, SAMUEL, US  
[73] AILA TECHNOLOGIES, INC., US  
[85] 2017-01-04  
[86] 2015-07-08 (PCT/US2015/039597)  
[87] (WO2016/007662)  
[30] US (62/021,964) 2014-07-08
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**[11] 2,956,233**  
[13] C

- [51] Int.Cl. A62C 3/08 (2006.01) A62C 35/68 (2006.01) A62C 37/00 (2006.01) B64D 13/00 (2006.01) B64D 37/32 (2006.01)  
[25] EN  
[54] FIRE SUPPRESSION SYSTEM AND METHOD  
[54] SYSTEME ET METHODE D'EXTINCTION D'INCENDIE  
[72] CHATTAWAY, ADAM, GB  
[72] SIMPSON, TERRY, US  
[72] HERRON, TADD F., US  
[73] KIDDE GRAVINGER LIMITED, GB  
[86] (2956233)  
[87] (2956233)  
[22] 2017-01-25  
[30] US (15/089,822) 2016-04-04
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**[11] 2,957,214**  
[13] C

- [51] Int.Cl. B62D 33/027 (2006.01) B60P 1/26 (2006.01) B60R 3/02 (2006.01) B60R 5/04 (2006.01)  
[25] EN  
[54] MODULAR TAILGATE  
[54] HAYON MODULAIRE  
[72] POVINELLI, ANTHONY J., US  
[72] MATTHEWS, MARTIN R., US  
[72] BIRKA, MARK P., US  
[72] WEST, MICHAEL A., US  
[73] MAGNA INTERNATIONAL INC., CA  
[85] 2017-02-02  
[86] 2015-08-19 (PCT/US2015/045877)  
[87] (WO2016/028884)  
[30] US (62/039,172) 2014-08-19
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[11] **2,958,629**  
[13] C

[51] Int.Cl. G01D 18/00 (2006.01) B64D 43/00 (2006.01) B64D 47/00 (2006.01)

[25] EN

[54] **METHOD FOR DETERMINING AIRCRAFT SENSOR FAILURE WITHOUT A REDUNDANT SENSOR AND CORRECT SENSOR MEASUREMENT WHEN REDUNDANT AIRCRAFT SENSORS GIVE INCONSISTENT READINGS**

[54] **METHODE DE DETERMINATION D'UNE DEFAILLANCE DE CAPTEUR D'AERONEF SANS RECOURS A UN CAPTEUR REDONDANT ET MESURE DE CAPTEUR CORRECTE LORSQUE LES CAPTEURS D'AERONEF REDONDANTS DONNENT DES LECTURES INCOHERENTES**

[72] HAGGERTY, NATHAN, US  
[72] HO, TONY, US  
[73] HAMILTON SUNDSTRAND CORPORATION, US  
[86] (2958629)  
[87] (2958629)  
[22] 2017-02-21  
[30] US (15/049,562) 2016-02-22

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[11] **2,959,694**  
[13] C

[51] Int.Cl. C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01)

[25] EN

[54] **TROPHOBlast GLYCOPROTEIN (5T4, TPBG) SPECIFIC CHIMERIC ANTIGEN RECEPTORS FOR CANCER IMMUNOTHERAPY**

[54] **RECEPTEURS D'ANTIGENES CHIMERIQUES SPECIFIQUES DE LA GLYCOPROTEINE TROPHOBLASTIQUE (5T4, TPBG) UTILISES POUR L'IMMUNOTHERAPIE DU CANCER**

[72] SCHIFFER-MANNIOUI, CECILE, FR  
[73] CELLECTIS, FR  
[85] 2017-03-01  
[86] 2015-09-03 (PCT/EP2015/070128)  
[87] (WO2016/034666)  
[30] DK (PA201470543) 2014-09-04

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[11] **2,959,881**  
[13] C

[51] Int.Cl. E21B 25/16 (2006.01) E21B 49/02 (2006.01)

[25] EN

[54] **LOW RESISTANCE CORE SAMPLE MARKING SYSTEM AND METHOD FOR ORIENTATION OF A MARKED CORE SAMPLE**  
[54] **SYSTEME DE MARQUAGE D'ECHANTILLON DE PIECE PLEINE A FAIBLE RESISTANCE ET METHODE D'ORIENTATION D'UN ECHANTILLON DE PIECE PLEINE MARQUE**

[72] ERIKSEN, LARS A., NO  
[72] LOVO, ARNSTEIN, NO  
[72] LINDHJEM, RUNE, NO  
[73] DEVICO AS, NO  
[86] (2959881)  
[87] (2959881)  
[22] 2017-03-03  
[30] NO (20160384) 2016-03-04

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[11] **2,960,294**  
[13] C

[51] Int.Cl. C07F 7/12 (2006.01)

[25] EN

[54] **FUNCTIONALIZED SILANES AND ELECTROLYTE COMPOSITIONS AND ELECTROCHEMICAL DEVICES CONTAINING THEM**

[54] **SILANES FONCTIONNALISES ET COMPOSITIONS D'ELECTROLYTES ET DISPOSITIFS ELECTROCHIMIQUES LES CONTENANT**

[72] PENA HUESO, JOSE, ADRIAN, US  
[72] OSMALOV, DAVID, US  
[72] DONG, JIAN, US  
[72] USREY, MONICA, US  
[72] POLLINA, MICHAEL, US  
[72] DU, PENG, US  
[72] ZHOU, LIU, US  
[72] JOHNSON, TOBIAS, US  
[72] GILBERT, DEBORAH, US  
[72] WEST, ROBERT, US  
[73] SILATRONIX, INC., US  
[85] 2017-03-03  
[86] 2015-10-05 (PCT/US2015/053930)  
[87] (WO2016/054621)  
[30] US (62/059,663) 2014-10-03

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[11] **2,962,065**  
[13] C

[51] Int.Cl. G01C 3/00 (2006.01) G03B 13/32 (2021.01)

[25] EN

[54] **DISTANCE MEASUREMENT DEVICE FOR MOTION PICTURE CAMERA FOCUS APPLICATIONS**  
[54] **DISPOSITIF DE MESURE DE DISTANCE POUR DES APPLICATIONS DE MISE AU POINT POUR CAMERA CINEMATOGRAPHIQUE**

[72] NARANG, RITESH, US  
[72] HOGUE, WILLIAM BENNETT, US  
[72] TOWNDROW, CLIVE AUSTIN, US  
[73] PANAVISION INTERNATIONAL, L.P., US  
[85] 2017-03-21  
[86] 2015-09-23 (PCT/US2015/051598)  
[87] (WO2016/049113)  
[30] US (14/495,862) 2014-09-24

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[11] **2,962,925**  
[13] C

[51] Int.Cl. A47L 11/284 (2006.01) A47L 11/28 (2006.01) A47L 11/40 (2006.01)

[25] EN

[54] **EFFICIENT SURFACE TREATING MACHINE**  
[54] **MACHINE DE TRAITEMENT DE SURFACE EFFICACE**

[72] SMITH, YALE, US  
[73] POGO INTERNATIONAL LIMITED,  
[85] 2017-03-28  
[86] 2015-09-28 (PCT/US2015/052643)  
[87] (WO2016/053872)  
[30] US (62/056,722) 2014-09-29

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[11] 2,965,237

[13] C

- [51] Int.Cl. A61K 9/48 (2006.01) A61K 9/20 (2006.01) A61K 31/09 (2006.01) A61K 31/192 (2006.01) A61K 31/485 (2006.01)
- [25] EN
- [54] PHARMACEUTICAL CAPSULE CONTAINING AT LEAST TWO TABLETS
- [54] CAPSULE PHARMACEUTIQUE CONTENANT AU MOINS DEUX COMPRIMES
- [72] AHLGREN, NILS WILLIAM, US
- [72] CAVATUR, RAGHU, US
- [72] CHEN, KEVIN, US
- [72] KASER, MATTHEW JAMES, US
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- [73] RB HEALTH (US) LLC, US
- [85] 2017-04-20
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- [87] (WO2016/063055)
- [30] US (62/066,536) 2014-10-21
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- [54] VACCINS THERAPEUTIQUES CONTRE LE VPH16
- [72] BUNNIK, EVELIEN M, US
- [72] CUSTERS, JEROME H H V, NL
- [72] SCHEPER, GERRIT CH, NL
- [72] OOSTERHUIS, KOEN, NL
- [72] UIL, TACO GILLES, NL
- [72] KHAN, SELINA, NL
- [73] JANSEN VACCINES & PREVENTION B.V., NL
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- [87] (WO2016/071306)
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- [25] EN
- [54] EXPORTING MEASUREMENTS OF NANOPORE ARRAYS
- [54] EXPORTATION DES MESURES D'ENSEMBLES DE NANOPORES
- [72] CHEN, ROGER J. A., US
- [72] TIAN, HUI, US
- [72] FERNANDEZ-GOMEZ, SANTIAGO, US
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- [85] 2017-05-02
- [86] 2015-11-01 (PCT/US2015/058531)
- [87] (WO2016/073318)
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- [25] EN
- [54] SOFT TISSUE PRODUCED USING A STRUCTURED FABRIC AND ENERGY EFFICIENT PRESSING
- [54] MOUCHOIR EN PAPIER DOUX FABRIQUE A L'AIDE D'UN TISSU STRUCTURE ET PAR COMPRESSION A RENDEMENT ENERGETIQUE ELEVE
- [72] MILLER, BYRD TYLER, IV, US
- [72] PENCE, JUSTIN S., US
- [72] SEALEY, JAMES E., US
- [73] FIRST QUALITY TISSUE, LLC, US
- [85] 2017-05-17
- [86] 2015-11-24 (PCT/US2015/062483)
- [87] (WO2016/086019)
- [30] US (62/083,735) 2014-11-24
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- [25] EN
- [54] NEW STANDARDIZATIONS & MEDICAL DEVICES FOR THE PREPARATION OF PLATELET RICH PLASMA (PRP) OR BONE MARROW CENTRATE (BMC) ALONE OR IN COMBINATION WITH HYALURONIC ACID
- [54] NOUVELLES NORMALISATIONS ET NOUVEAUX DISPOSITIFS MEDICAUX POUR LA PREPARATION DE PLASMA RICHE EN PLAQUETTES (PRP) OU DE CENTRIFUGAT DE MOELLE OSSEUSE (BMC) SEUL OU EN ASSOCIATION AVEC DE L'ACIDE HYALURONIQUE
- [72] TURZI, ANTOINE, CH
- [73] REGEN LAB SA, CH
- [85] 2017-05-24
- [86] 2015-11-26 (PCT/EP2015/077853)
- [87] (WO2016/083549)
- [30] GB (1421013.2) 2014-11-26
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- [25] EN
- [54] MOUTHRINSE FORMULATIONS COMPRISING TIN AND POLYVINYL PYRROLIDONE
- [54] FORMULATIONS DE RINCE-BOUCHE COMPRENANT DE L'ETAINE ET DU POLY(VINYL PYRROLIDONE)
- [72] HESS, SYLVIA, CH
- [72] HINRICHSH, RUTH, CH
- [72] JAKUMEIT, STEPHANIE, DE
- [72] MATUR, TURAN, CH
- [72] BRUNELLA, ANDRE, CH
- [72] REIFF, PETER, DE
- [73] GABA INTERNATIONAL HOLDING GMBH, CH
- [85] 2017-05-31
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[25] EN

[54] **METHOD FOR EVALUATING MESENCHYMAL STEM CELL ACTIVITY, METHOD FOR CULTURING MESENCHYMAL STEM CELLS, METHOD FOR PRODUCING THERAPEUTIC AGENT FOR LIVER DYSFUNCTION, AND THERAPEUTIC AGENT FOR LIVER DYSFUNCTION**

[54] **PROCEDE D'EVALUATION DE L'ACTIVITE DE CELLULES SOUCHES MESENCHYMATSEUSES, PROCEDE DE CULTURE DE CELLULES SOUCHES MESENCHYMATSEUSES, PROCEDE DE PRODUCTION D'AGENT THERAPEUTIQUE DESTINE AU DYSFONCTIONNEMENT DU FOIE ET AGENT THERAPEUTIQUE DESTINE AU DYSFONCTIONNEMENT DU FOIE**

[72] SAKAIDA, ISAO, JP

[72] TERAI, SHUJI, JP

[72] TAKAMI, TARO, JP

[72] FUJISAWA, KOICHI, JP

[72] YAMAMOTO, NAOKI, JP

[72] YONEDA, KENJI, JP

[73] YAMAGUCHI UNIVERSITY, JP

[73] SHIBUYA CORPORATION, JP

[85] 2017-06-01

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[25] EN

[54] **MOLDING ASSEMBLY AND FLOOR INSTALLATION**

[54] **ENSEMBLE DE MOULURE ET INSTALLATION DE PLANCHER**

[72] MOORE, DAVID, US

[72] TREVINO, MARCO, US

[72] MONSON, MARC W., US

[73] ALADDIN MANUFACTURING CORPORATION, US

[86] (2972781)

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[25] EN

[54] **ORAL TREATMENT SYSTEM**

[54] **SYSTEME DE TRAITEMENT ORAL**

[72] DEMAREST, SCOTT, US

[72] LAVENDER, STACEY, US

[72] ADAMS, RICHARD P., US

[72] SHI, YU, US

[73] COLGATE-PALMOLIVE COMPANY, US

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[86] 2016-01-22 (PCT/US2016/014607)

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[25] FR

[54] **ANKLE ERGOMETER**

[54] **ERGOMETRE POUR CHEVILLE**

[72] SIMONEAU-BUESSINGER, EMILIE, FR

[72] GILLET, CHRISTOPHE, FR

[72] LETENEUR, SEBASTIEN, FR

[72] DEBRIL, JEAN-FRANCOIS, FR

[72] DECOUFOUR, NICOLAS, FR

[73] UNIVERSITE DE VALENCIENNES ET DU HAINAUT-CAMBRESIS, FR

[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS -, FR

[85] 2017-07-07

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[25] EN

[54] **SUBSEA WELLHEAD ASSEMBLY**

[54] **ENSEMBLE TETE DE PUITS SOUS-MARIN**

[72] OSEN, PER, NO

[73] EQUINOR ENERGY AS, NO

[85] 2017-07-13

[86] 2015-12-24 (PCT/NO2015/050262)

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- [25] EN
- [54] SECURE PROCESSING OF ELECTRONIC PAYMENTS
- [54] TRAITEMENT SECURISE DE PAIEMENTS ELECTRONIQUES
- [72] LEE, TERRY W., CA
- [72] ORTIZ, EDISON U., CA
- [72] SCOTT, STEPHEN JAMES, CA
- [72] WOO, GABRIEL Y., CA
- [72] YIN, WEIQIANG, CA
- [72] DINN, JUDY, CA
- [72] LAM, CHAI, CA
- [73] ROYAL BANK OF CANADA, CA
- [85] 2017-07-18
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- [87] (WO2016/115620)
- [30] US (62/105,061) 2015-01-19
- [30] US (62/188,067) 2015-07-02
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- [51] Int.Cl. A61M 1/16 (2006.01)
- [25] EN
- [54] MASS EXCHANGE APPARATUS AND METHODS FOR THE USE THEREOF
- [54] APPAREIL D'ECHANGE DE MASSE ET SES PROCEDES D'UTILISATION
- [72] JOHNS, WILLIAM R, GB
- [72] EVANS, ALAN F, GB
- [72] KNIGHT, RONALD K, GB
- [73] HAEMAIR LIMITED, GB
- [85] 2017-07-26
- [86] 2016-01-18 (PCT/GB2016/050098)
- [87] (WO2016/120591)
- [30] GB (1501411.1) 2015-01-28
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- [25] EN
- [54] STRUCTURE OF ACCESSORY ELEMENT FOR EQUIPMENT OF FLOORBALL TRAINING COURT AND USE OF IT FOR FORMATION OF FLOORBALL SIMULATOR
- [54] STRUCTURE D'ELEMENT ACCESSOIRE POUR EQUIPEMENT DE TERRAIN D'ENTRAINEMENT DE FLOORBALL, ET SON UTILISATION POUR LA FORMATION D'UN SIMULATEUR DE FLOORBALL
- [72] SUTTA, PETERS, LV
- [72] LEITANS, JANIS, LV
- [73] BETHOC AB, SE
- [85] 2017-07-27
- [86] 2016-02-08 (PCT/IB2016/050635)
- [87] (WO2016/128874)
- [30] LV (P-15-11) 2015-02-09
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- [25] EN
- [54] SYSTEMS, DEVICES, AND METHODS FOR EYEBOX EXPANSION IN WEARABLE HEADS-UP DISPLAYS
- [54] SYSTEMES, DISPOSITIFS ET PROCEDES D'EXPANSION DE BOITIER OCULAIRE DANS DES AFFICHAGES TETE HAUTE PORTABLES
- [72] ALEXANDER, STEFAN, CA
- [72] BAILEY, MATTHEW, CA
- [72] HOLLAND, LLOYD FREDERICK, CA
- [72] MOORE, JOSHUA, CA
- [72] MORRISON, VANCE R., CA
- [73] GOOGLE LLC, US
- [85] 2017-08-16
- [86] 2016-02-17 (PCT/US2016/018293)
- [87] (WO2016/134033)
- [30] US (62/117,316) 2015-02-17
- [30] US (62/156,736) 2015-05-04
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- [25] EN
- [54] INHIBITORS OF CYCLIN-DEPENDENT KINASES
- [54] INHIBITEURS DE KINASES CYCLINE-DEPENDANTES
- [72] GRAY, NATHANAEL S., US
- [72] ZHANG, TINGHU, US
- [72] KWIATKOWSKI, NICHOLAS PAUL, US
- [73] DANA-FARBER CANCER INSTITUTE, INC., US
- [85] 2017-08-31
- [86] 2016-03-25 (PCT/US2016/024345)
- [87] (WO2016/160617)
- [30] US (62/139,352) 2015-03-27
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- [25] EN
- [54] CONTAINER ASSEMBLIES
- [54] ENSEMBLES DE RECEPTACLES
- [72] BRUNNER, YARON, IL
- [73] KETER HOME AND GARDEN PRODUCTS LTD, IL
- [85] 2017-09-01
- [86] 2016-03-06 (PCT/IL2016/050250)
- [87] (WO2016/142935)
- [30] US (62/129,069) 2015-03-06
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- [51] Int.Cl. E04B 9/18 (2006.01)
- [25] EN
- [54] CEILING ISOLATION HANGER AND FLOATING CEILING CONSTRUCTION EMPLOYING SAME
- [54] SUPPORT D'ISOLATION DE PLAFOND ET CONSTRUCTION DE PLAFOND SUSPENDU EMPLOYANT LEDIT SUPPORT
- [72] DOWNEY, PAUL, CA
- [72] GOLDEN, MATTHEW, CA
- [72] BYRICK, WILSON, CA
- [73] PLITEQ INC., CA
- [86] (2980628)
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  - [25] EN
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  - [54] BLOC DE BANDE DE ROULEMENT OU NERVURE DE BANDE DE ROULEMENT DE PNEU CONVEXE A DEUX DOMES
  - [72] JACOBS, JEREMY J., US
  - [73] THE GOODYEAR TIRE & RUBBER COMPANY, US
  - [85] 2017-09-22
  - [86] 2016-03-22 (PCT/US2016/023621)
  - [87] (WO2016/154221)
  - [30] US (62/137,019) 2015-03-23
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- [25] EN
- [54] EXTENDED RELEASE INJECTABLE FORMULATIONS COMPRISING AN ISOXAZOLINE ACTIVE AGENT, METHODS AND USES THEREOF
- [54] FORMULATIONS INJECTABLES A ACTION PROLONGEE COMPRENANT UN PRINCIPE ACTIF ISOXAZOLINE, METHODES ET UTILISATIONS DE CELLES-CI
- [72] CADY, SUSAN MANCINI, US
- [72] CHEIFETZ, PETER, US
- [72] GALESKA, IZABELA, US
- [72] LE HIR DE FALLOIS, LOIC, US
- [73] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US
- [85] 2017-10-04
- [86] 2016-04-06 (PCT/US2016/026253)
- [87] (WO2016/164487)
- [30] US (62/144,871) 2015-04-08

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  - [25] EN
  - [54] PIPE CONNECTOR
  - [54] RACCORD DE TUBES
  - [72] SABATIER, CLINT ROGER, CA
  - [73] 925599 ALBERTA LTD., CA
  - [85] 2017-10-06
  - [86] 2016-04-11 (PCT/CA2016/050417)
  - [87] (WO2016/161526)
  - [30] US (62/146,073) 2015-04-10
  - [30] US (15/014,941) 2016-02-03
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  - [25] EN
  - [54] OXINDOLE COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF
  - [54] COMPOSES OXINDOLES ET LEURS COMPOSITIONS PHARMACEUTIQUES
  - [72] BEESON, CRAIG C., US
  - [72] LINDSEY, CHRISTOPHER C., US
  - [72] ROHRER, BAERBEL, US
  - [72] PETERSON, YURI KARL, US
  - [73] MUSC FOUNDATION FOR RESEARCH DEVELOPMENT, US
  - [73] U.S. DEPARTMENT OF VETERANS AFFAIRS, US
  - [85] 2017-10-13
  - [86] 2016-04-28 (PCT/US2016/029726)
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- [25] EN
- [54] HIGH STRENGTH RIBBON-WOVEN DISPOSABLE FABRIC ARTICLES
- [54] ARTICLES EN TISSU JETABLES TISSES EN RUBANS DE HAUTE RESISTANCE
- [72] WILLIAMS, BRUCE A., US
- [73] GLOBAL STRATEGIES HOLDING CORP., US
- [85] 2017-10-13
- [86] 2016-04-18 (PCT/US2016/028103)
- [87] (WO2016/168818)
- [30] US (62/148,974) 2015-04-17

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[13] C

- [51] Int.Cl. C23F 13/18 (2006.01) F24H 1/20 (2006.01)
  - [25] EN
  - [54] IMPROVED ANODE SUPPORT AND OR LOCATOR DEVICE AND METHOD OF ASSEMBLY
  - [54] SUPPORT D'ANODE AMELIORE ET/OU DISPOSITIF DE POSITIONNEMENT ET PROCEDE D'ASSEMBLAGE
  - [72] JENSEN, JIM, AU
  - [72] KERR, PETER ROBERT, AU
  - [72] GACSY, JURAJ, AU
  - [72] KNOWLES, ANTHEA, AU
  - [72] KERNICH, LEE, AU
  - [73] RHEEM AUSTRALIA PTY LIMITED, AU
  - [85] 2017-11-03
  - [86] 2016-02-29 (PCT/AU2016/050129)
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  - [30] AU (2015202488) 2015-05-08
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  - [54] CONNECTOR SYSTEM
  - [54] SYSTEME DE CONNECTEUR
  - [72] CANNY, STEVEN ALLAN, GB
  - [72] FOUBISTER, GRAEME, GB
  - [72] UDUMA, CHIKA MBA, GB
  - [73] WEATHERFORD U.K. LIMITED, GB
  - [85] 2017-11-10
  - [86] 2016-06-20 (PCT/GB2016/051843)
  - [87] (WO2016/203274)
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- [25] EN
- [54] FALL ARREST ANCHOR
- [54] ANCRAJE ANTI-CHUTE
- [72] GURTNER, DEAN, CA
- [72] KERMOCIEV, DALE, CA
- [73] METRO SAFETY RAIL INCORPORATED, CA
- [86] (2986123)
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- [22] 2017-11-20
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[25] EN  
[54] COATING APPARATUS  
[54] APPAREIL D'APPLICATION DE REVETEMENT  
[72] LANDA, BENZION, IL  
[72] KRASSILNIKOV, ANTON, IL  
[72] FAHIMA, MOSHE, IL  
[72] ADLER, ARIEL, IL  
[73] ACTEGA METAL PRINT GMBH, DE  
[85] 2017-11-24  
[86] 2016-05-27 (PCT/IB2016/053146)  
[87] (WO2016/189516)  
[30] GB (1509080.6) 2015-05-27  
[30] GB (1514618.6) 2015-08-17
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[13] C

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[25] EN  
[54] GAS DIFFUSION ELECTRODE  
[54] ELECTRODE DE DIFFUSION GAZEUSE  
[72] HASHIMOTO, MASARU, JP  
[72] WAKATABE, MICHIO, JP  
[72] TANIMURA, YASUAKI, JP  
[73] TORAY INDUSTRIES, INC., JP  
[85] 2017-12-08  
[86] 2016-06-14 (PCT/JP2016/067680)  
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[25] EN  
[54] DUCK ENTERITIS VIRUS AND THE USES THEREOF  
[54] VIRUS DE LA PESTE DU CANARD ET SES UTILISATIONS  
[72] YUKARI, SAEKI, JP  
[72] SAITO, SHUJI, JP  
[73] CEVA SANTE ANIMALE, FR  
[85] 2017-12-21  
[86] 2016-06-29 (PCT/EP2016/065132)  
[87] (WO2017/001469)  
[30] EP (EP15174515.5) 2015-06-30
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[13] C

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[25] EN  
[54] METHOD FOR EMBEDDING IMAGES IN SOAP  
[54] METHODE D'INTEGRATION DES IMAGES DANS UN SAVON  
[72] COMMISSO, PATRICK, CA  
[73] COMMISSO, PATRICK, CA  
[86] (2992185)  
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- [54] BRIDES INDEPENDAMMENT ROTATIVES ET ADAPTATEURS POUVANT ETRE ATTACHEES POUR ARBRE D'ARRET
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- [72] DEESE, MYRON, US
- [72] KENT, HARRY WILLIAM, JR., US
- [72] GONZALEZ, JUAN ALBERTO GALINDO, US
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[72] ARMSTRONG, JOHN A., GB  
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[72] DAL SANTO, XAVIER, FR  
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[73] CODAN US CORPORATION, US  
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TIP
- [54] METHODE POUR AIGUISER UN  
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CORRESPONDANT
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- [73] MECACHROME FRANCE, FR
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- [72] NIEDEROEST, BEAT, US
- [73] TEMPUR WORLD, LLC, US
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COMMUNICATION METHOD
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APPAREIL DE STATION DE BASE  
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COMMUNICATION
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- [72] KUSASHIMA, NAOKI, JP
- [72] SUZUKI, SHOICHI, JP
- [72] AIBA, TATSUSHI, JP
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- [72] IMAMURA, KIMIHIKO, JP
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- [73] CAPSUGEL BELGIUM NV, BE
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[73] RADAR LEATHER DIVISION S.R.L., IT

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[73] VIROVEK, INC, US

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[72] NICHOLSON, PETER JOHN, NZ

[73] DENTSPLY SIRONA INC., US

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[72] MAGNAUDEIX, DOMINIQUE MICHEL SERGE, FR

[73] SAFRAN AIRCRAFT ENGINES, FR

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[72] WESSELS, ILLEZE, ZA

[72] WESSELS, CAREL LOURENS, ZA

[72] STEYN, WYNAND JACOBUS VAN DER MERWE, ZA

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[54] TECHNIQUES DE CONCEPTION DE LIVRE DE CODES A ACCES MULTIPLE PAR CODE EPARS (SCMA)  
[72] SUN, HAITONG, US  
[72] ZENG, WEI, US  
[72] SORIAGA, JOSEPH BINAMIRA, US  
[72] GAAL, PETER, US  
[72] JI, TINGFANG, US  
[72] SMEE, JOHN EDWARD, US  
[72] BHUSHAN, NAGA, US  
[73] QUALCOMM INCORPORATED, US  
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[72] LARSSON, CAROLINE, SE  
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[73] HOGANAS AB (PUBL), SE  
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[54] PUCE D'EXCAVATION, OUTIL D'EXCAVATION ET PROCEDE DE FABRICATION DE PUCE D'EXCAVATION  
[72] AKHMADI EKO, WARDYO, JP  
[72] YANO, MASAHIRO, JP  
[72] MATSUO, TOSHIHIKO, JP  
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[72] STROM, ANNA, SE  
[72] AHNOFF, MARTIN, SE  
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- [72] WOODMAN, TOM, GB
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[54] MOLECULES DE LIAISON A L'ANTIGENE ET PROCEDES D'UTILISATION ASSOCIES  
[72] WILTZIUS, JED, US  
[72] SIEVERS, STUART, US  
[72] PEREZ GARCIA, ARIANNE, US  
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[54] COMPOSITIONS POLYMERES COMPRENANT DES POLYMERES RETICULES COMPRENANT DES FONCTIONS ESTERS BORONIQUES PERMETTANT DES REACTIONS D'ECHANGE, LEUR PROCEDE DE PREPARATION ET LEUR UTILISATION  
[72] LEIBLER, LUDWIK, FR  
[72] NICOLAY, RENAUD, FR  
[72] ROTTGER, MAX, FR  
[73] ECOLE SUPERIEURE DE PHYSIQUE ET DE CHIMIE INDUSTRIELLES DE LA VILLE DE PARIS, FR  
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[72] YOKOYAMA, RYO, JP  
[73] SATAKE CORPORATION, JP  
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[54] POMPE ET SYSTEME A DOUBLE ENTREE  
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[54] COMPOSITION DE CAOUTCHOUC  
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[72] KODA, DAISUKE, JP  
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[72] PUDI, SATYANARAYANA MURTY,  
IN  
[72] SHARMA, BHAVESH, IN  
[72] PEDDY, VENKATA CHALAPATHI  
RAO, IN  
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B65H 75/40 (2006.01)  
[25] EN  
[54] A BUOY APPARATUS AND THE  
CONTROL SYSTEM  
[54] DISPOSITIF DE BOUEE ET  
SYSTEME DE COMMANDE  
[72] CHENG, XIAOGE, CA  
[72] WANG, LIBO, CA  
[73] MARINE THINKING INC., CA  
[86] (3038171)  
[87] (3038171)  
[22] 2019-03-27

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[11] **3,041,395**  
[13] C

[51] Int.Cl. H04W 72/21 (2023.01)  
[25] EN  
[54] BASE STATION, USER  
EQUIPMENT AND RELATED  
METHODS  
[54] STATION DE BASE, EQUIPEMENT  
UTILISATEUR ET PROCEDES  
ASSOCIES  
[72] XIAO, FANGYING, CN  
[72] YAMADA, SHOHEI, JP  
[72] LIU, RENMAO, CN  
[73] SHARP KABUSHIKI KAISHA, JP  
[73] FG INNOVATION COMPANY  
LIMITED, CN  
[85] 2019-04-23  
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[87] (WO2018/082607)  
[30] CN (201610974524.X) 2016-11-04

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[11] **3,042,283**  
[13] C

[51] Int.Cl. H04L 43/0829 (2022.01) H04L  
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47/263 (2022.01) H04L 47/27  
(2022.01) H04L 47/32 (2022.01)  
[25] EN  
[54] PACKET LOSS TOLERANT  
TRANSMISSION CONTROL  
PROTOCOL CONGESTION  
CONTROL  
[54] COMMANDE D'ENCOMBREMENT  
DE PROTOCOLE DE COMMANDE  
DE TRANSMISSION TOLERANT  
LA PERTE DE PAQUETS  
[72] XIE, QIAOBING, US  
[73] NETFLIX, INC., US  
[85] 2019-04-29  
[86] 2017-11-09 (PCT/US2017/060898)  
[87] (WO2018/125390)  
[30] US (15/391,335) 2016-12-27

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[13] C

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C07D 405/12 (2006.01)  
[25] EN  
[54] COMPOUNDS FOR TREATING  
PROLIFERATIVE DISEASES  
[54] COMPOSES POUR TRAITER DES  
MALADIES PROLIFERATIVES  
[72] ZETTER, BRUCE R., US  
[72] SUN, LIJUN, US  
[73] CHILDREN'S MEDICAL CENTER  
CORPORATION, US  
[73] BETH ISRAEL DEACONESS  
MEDICAL CENTER, INC., US  
[85] 2019-05-10  
[86] 2016-11-30 (PCT/US2016/064256)  
[87] (WO2017/095950)  
[30] US (62/261,240) 2015-11-30

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[13] C

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(2006.01) G01N 1/40 (2006.01) G01N  
21/64 (2006.01) G02B 21/06 (2006.01)  
G02B 21/36 (2006.01)  
[25] EN  
[54] APPARATUSES, SYSTEMS AND  
METHODS FOR IMAGING  
MICRO-OBJECTS  
[54] APPAREILS, SYSTEMES ET  
METHODES POUR L'IMAGERIE  
DE MICRO-OBJETS  
[72] LUNDQUIST, PAUL M., US  
[72] LEBEL, PAUL M., US  
[72] JESS, PHILLIP RONALD THOMAS,  
US  
[73] BERKELEY LIGHTS, INC., US  
[85] 2019-05-28  
[86] 2017-12-01 (PCT/US2017/064308)  
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 [25] EN  
 [54] BEVERAGE DISCHARGE COCK, VALVE ROD, AND BEVERAGE DISPENSER  
 [54] ROBINET D'EVACUATION DE BOISSON, TIGE DE VALVE ET DISTRIBUTEUR DE BOISSON  
 [72] TAKAHASHI, TOMOHIRO, JP  
 [72] KURABE, YASUHIRO, JP  
 [72] IMAI, HIROFUMI, JP  
 [72] SHIRAIKI, KAZUYA, JP  
 [73] ASAHI BREWERIES, LTD., JP  
 [73] ASAHI GROUP HOLDINGS, LTD., JP  
 [85] 2019-06-11  
 [86] 2016-12-13 (PCT/JP2016/087038)  
 [87] (WO2018/109834)
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[13] C

- [51] Int.Cl. C07D 257/02 (2006.01)  
 [25] EN  
 [54] METHOD FOR PREPARING 1,4,7,10-TETRAAZACYCLODODECANE-1,4,7,10-TETRAACETIC ACID  
 [54] PROCEDE DE PREPARATION D'ACIDE 1,4,7,10-TETRAAZACYCLODODECANE-1,4,7,10-TETRAACETIQUE  
 [72] MENG, ZHOUJUN, CN  
 [72] HE, YIGANG, CN  
 [72] WEI, YANJUN, CN  
 [72] XING, YANPING, CN  
 [73] VIWIT PHARMACEUTICAL CO., LTD., CN  
 [85] 2019-06-26  
 [86] 2017-09-18 (PCT/CN2017/102056)  
 [87] (WO2018/120923)  
 [30] CN (201611262335.6) 2016-12-30

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 [25] EN  
 [54] A COMPOSITE MATERIAL AND COMPOSITE PRODUCT  
 [54] MATERIAU COMPOSÉ ET PRODUIT COMPOSÉ  
 [72] MAYES, DUNCAN, FI  
 [72] PYNNONEN, JANNE, FI  
 [72] WEST, CHRISTOPHER H., US  
 [72] GARDNER, DOUGLAS J., US  
 [72] HAN, YOUSOO, US  
 [73] STORA ENSO OYJ, FI  
 [73] UNIVERSITY OF MAINE SYSTEM BOARD OF TRUSTEES, US  
 [85] 2019-07-04  
 [86] 2018-02-01 (PCT/IB2018/050622)  
 [87] (WO2018/142314)  
 [30] US (62/454,110) 2017-02-03

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[13] C

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 [25] EN  
 [54] TITANIUM MASTER ALLOY FOR TITANIUM-ALUMINUM BASED ALLOYS  
 [54] ALLIAGE-MÈRE DE TITANE POUR ALLIAGES À BASE DE TITANE-ALUMINIUM  
 [72] COX, JAMES R., US  
 [72] DE ALWIS, CHANAKA L., US  
 [72] KOHLER, BENJAMIN A., US  
 [72] LEWIS, MICHAEL G., US  
 [72] KLUCK, JULIANE B., US  
 [73] UNIVERSAL ACHEMETAL TITANIUM, LLC, US  
 [85] 2019-07-09  
 [86] 2018-01-16 (PCT/US2018/013813)  
 [87] (WO2018/186922)  
 [30] US (62/446,205) 2017-01-13

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[13] C

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 [25] EN  
 [54] AIRCRAFT LANDING GEAR ASSEMBLY  
 [54] ASSEMBLAGE DE TRAIN D'ATERRISSAGE D'AÉRONEF  
 [72] PRICE, NEIL, GB  
 [72] COQ, MARIE, GB  
 [73] SAFRAN LANDING SYSTEMS UK LIMITED, GB  
 [73] SAFRAN LANDING SYSTEMS, FR  
 [86] (3049574)  
 [87] (3049574)  
 [22] 2019-07-12  
 [30] US (18183607.3) 2018-07-16

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**[11] 3,050,426**

[13] C

- [51] Int.Cl. G01C 21/00 (2006.01)  
 [25] EN  
 [54] ADAPTIVE SENSE AND AVOID SYSTEM  
 [54] SYSTEME ADAPTATIF DE DETECTION ET D'EVITEMENT  
 [72] DAWSON-TOWNSEND, TIMOTHY, US  
 [73] AURORA FLIGHT SCIENCES CORPORATION, US  
 [86] (3050426)  
 [87] (3050426)  
 [22] 2019-07-22  
 [30] US (16/159397) 2018-10-12

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**[11] 3,050,890**

[13] C

- [51] Int.Cl. B65D 5/52 (2006.01) B65D 5/10 (2006.01) B65D 5/64 (2006.01) B65D 30/02 (2006.01)  
 [25] EN  
 [54] PACKAGE FOR IRREGULAR SHAPED OBJECTS  
 [54] EMBALLAGE POUR OBJETS DE FORME IRREGULIÈRE  
 [72] MOAK, MORGAN PEARL, US  
 [72] GORDON, ANDREW DOUGLAS, US  
 [72] COTTON, RANDALL BURT, US  
 [73] BIG HEART PET, INC., US  
 [86] (3050890)  
 [87] (3050890)  
 [22] 2019-07-31  
 [30] US (16/522,094) 2019-07-25

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  - [25] EN
  - [54] AUTO-INJECTOR DEVICE
  - [54] DISPOSITIF AUTO-INJECTEUR
  - [72] GIAMBATTISTA, LUCIO, US
  - [73] L.G.P. TECHNOLOGY HOLDINGS LLC, US
  - [85] 2019-07-18
  - [86] 2018-01-20 (PCT/US2018/014591)
  - [87] (WO2018/136840)
  - [30] US (62/448,834) 2017-01-20
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[13] C

- [51] Int.Cl. B65D 8/00 (2006.01) B65D 25/24 (2006.01) B65D 25/28 (2006.01) B67D 1/08 (2006.01)
- [25] EN
- [54] TOP CHIME FOR A BEVERAGE KEG
- [54] REBORD SUPERIEUR POUR UN FUT DE BOISSON
- [72] FALVEY, JAMES, GB
- [73] PETAINER LARGE CONTAINER IP LIMITED, GB
- [85] 2019-07-25
- [86] 2018-02-27 (PCT/GB2018/050499)
- [87] (WO2018/154334)
- [30] GB (1703148.5) 2017-02-27
- [30] GB (1705593.0) 2017-04-06

[11] **3,052,064**

[13] C

- [51] Int.Cl. B01D 53/14 (2006.01)
  - [25] EN
  - [54] PROCESS FOR REMOVAL OF ACID GASES FROM A FLUID STREAM
  - [54] PROCEDE D'ELIMINATION DE GAZ ACIDES A PARTIR D'UN COURANT DE FLUIDE
  - [72] INGRAM, THOMAS, DE
  - [72] ERNST, MARTIN, DE
  - [72] VORBERG, GERALD, DE
  - [72] PANCHENKO, ALEXANDER, DE
  - [72] EBERT, SOPHIA, DE
  - [72] HOLCOMBE, THOMAS WESLEY, DE
  - [72] SISKIN, MICHAEL, US
  - [72] PEREIRA, CARLA, US
  - [72] SIEDER, GEORG, DE
  - [73] BASF SE, DE
  - [73] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
  - [85] 2019-07-29
  - [86] 2018-02-09 (PCT/EP2018/053235)
  - [87] (WO2018/146233)
  - [30] EP (17155535.2) 2017-02-10
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[11] **3,054,732**

[13] C

- [51] Int.Cl. H04N 7/18 (2006.01) G01S 3/78 (2006.01) H04N 5/222 (2006.01) H04N 5/262 (2006.01) H04N 7/22 (2006.01)
- [25] EN
- [54] SYSTEMS AND METHODS FOR TRACKING AND CONTROLLING A MOBILE CAMERA TO IMAGE OBJECTS OF INTEREST
- [54] SYSTEMES ET PROCEDES POUR LE SUIVI ET LA COMMANDE D'UNE CAMERA MOBILE POUR LA FORMATION D'IMAGES D'OBJETS D'INTERET
- [72] DEANGELIS, DOUGLAS J., US
- [72] EVANSEN, EDWARD G., US
- [72] REILLY, GERARD M., US
- [72] SIGEL, KIRK M., US
- [73] ISOLYNX, LLC, US
- [85] 2019-08-26
- [86] 2018-02-27 (PCT/US2018/019851)
- [87] (WO2018/217260)
- [30] US (62/464,281) 2017-02-27

[11] **3,055,553**

[13] C

- [51] Int.Cl. C30B 7/04 (2006.01) B01D 9/02 (2006.01) C01B 17/69 (2006.01) C01B 17/90 (2006.01) C01D 5/00 (2006.01) C01D 5/16 (2006.01) C30B 29/46 (2006.01)
  - [25] EN
  - [54] PROCESSES FOR TREATING AQUEOUS COMPOSITIONS COMPRISING LITHIUM SULFATE AND SULFURIC ACID
  - [54] PROCEDES DE TRAITEMENT DE COMPOSITIONS AQUEUSES COMPRENANT DU SULFATE DE LITHIUM ET DE L'ACIDE SULFURIQUE
  - [72] MAGNAN, JEAN-FRANCOIS, CA
  - [72] BOURASSA, GUY, CA
  - [72] LAROCHE, NICOLAS, CA
  - [72] OUELLET, BERTIN, CA
  - [72] BRERETON, CLIVE, CA
  - [72] BUCHI, STEVEN, CA
  - [72] NAKA, TSUKI, CA
  - [73] NEMASKA LITHIUM INC., CA
  - [86] (3055553)
  - [87] (3055553)
  - [22] 2017-08-28
  - [62] 3,034,982
  - [30] US (62/380,056) 2016-08-26
  - [30] CA (2,940,509) 2016-08-26
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[11] **3,057,165**

[13] C

- [51] Int.Cl. F42D 1/18 (2006.01) F42B 3/22 (2006.01) F42D 1/20 (2006.01) F42D 1/22 (2006.01) F42D 1/28 (2006.01)
- [25] EN
- [54] BLASTING METHOD AND SYSTEM
- [54] PROCEDE ET SYSTEME DE DYNAMITAGE
- [72] PARK, ALLEN, AU
- [73] PWS SYSTEMS PTY LTD, AU
- [85] 2019-09-19
- [86] 2018-03-23 (PCT/AU2018/050272)
- [87] (WO2018/170556)
- [30] AU (2017901046) 2017-03-23

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[13] C

[51] Int.Cl. G06Q 30/00 (2023.01) G06V 20/20 (2022.01) G02B 27/01 (2006.01) G06F 3/14 (2006.01)

[25] EN

[54] SYSTEM AND METHOD FOR ACCESSING AND PROVIDING VEHICLE INFORMATION IN AUGMENTED REALITY

[54] SYSTEME ET METHODE D'ACCES A DES RENSEIGNEMENTS DE VEHICULE ET DE FOURNITURE DE CES RENSEIGNEMENTS EN REALITE AUGMENTEE

[72] NAVARRO, MIGUEL, CA

[72] SUTTER, LEVI, CA

[72] ABBAS, MOHAMED, CA

[72] HAUSE, MATHEW, CA

[73] THE TORONTO-DOMINION BANK, CA

[86] (3059140)

[87] (3059140)

[22] 2019-10-18

[30] US (16/587,513) 2019-09-30

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[11] 3,060,823

[13] C

[51] Int.Cl. C12C 13/00 (2006.01) G06Q 50/04 (2012.01) C12C 7/00 (2006.01) C12C 11/00 (2006.01) G05D 27/02 (2006.01)

[25] EN

[54] BREWING ARRANGEMENT AND METHOD

[54] DISPOSITIF DE BRASSAGE ET METHODE

[72] GRONE, SVEN GEORGE, AU

[72] MUNDAY, GEOFFREY ROSS, AU

[73] LIMESTONE COAST BREWING COMPANY PTY LTD, AU

[85] 2019-10-18

[86] 2018-04-20 (PCT/AU2018/050365)

[87] (WO2018/195589)

[30] AU (2017901538) 2017-04-28

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[13] C

[51] Int.Cl. G01N 21/77 (2006.01) B82Y 15/00 (2011.01) G01N 1/00 (2006.01)

[25] EN

[54] PLASMON RESONANCE (PR) SYSTEM AND INSTRUMENT, DIGITAL MICROFLUIDIC (DMF) CARTRIDGE, AND METHODS OF USING LOCALIZED SURFACE PLASMON RESONANCE (LSPR) FOR ANALYSIS OF ANALYTES

[54] SYSTEME ET INSTRUMENT A RESONANCE PLASMONIQUE, CARTOUCHE MICROFLUIDIQUE NUMERIQUE ET METHODES D'UTILISATION DE LA RESONANCE PLASMONIQUE DE SURFACE LOCALISEE POUR ANALYSE D'ANALYTES

[72] DENOMME, RYAN, CA

[72] SUDARSAN, ARJUN, US

[73] NICoya LIFESCIENCES, INC., CA

[85] 2020-02-12

[86] 2019-09-06 (PCT/IB2019/057540)

[87] (WO2020/049524)

[30] US (62/727,934) 2018-09-06

[30] US (62/854,103) 2019-05-29

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[13] C

[51] Int.Cl. A62B 23/06 (2006.01) A61F 5/08 (2006.01) A61M 15/08 (2006.01)

[25] EN

[54] NASAL DEVICE

[54] DISPOSITIF NASAL

[72] HELLMAN, MIKAEL, SE

[72] RUIN, ALEXIS, SE

[73] NOSEOPTION AB, SE

[85] 2019-11-08

[86] 2018-05-03 (PCT/EP2018/061324)

[87] (WO2018/206388)

[30] SE (1750584-3) 2017-05-12

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[11] 3,063,002

[13] C

[51] Int.Cl. F16L 55/05 (2006.01) F16L 55/02 (2006.01) G01L 19/00 (2006.01)

[25] EN

[54] SYSTEM AND METHOD FOR A HELICAL PRESSURE SNUBBER

[54] SYSTEME ET PROCEDE POUR UN AMORTISSEUR DE PRESSION

HELICOIDALE

[72] LINDAHL, GARY M., US

[73] THE BOEING COMPANY, US

[86] (3063002)

[87] (3063002)

[22] 2019-11-26

[30] US (16/224,278) 2018-12-18

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[11] 3,063,205

[13] C

[51] Int.Cl. B67D 3/04 (2006.01)

[25] EN

[54] TAP ASSEMBLY WITH ISOLATED AIR INTAKE PASSAGE

[54] ASSEMBLAGE DE ROBINET AVEC PASSAGE DE PRISE D'AIR ISOLE

[72] DARBY, IAN, GB

[73] LB EUROPE LIMITED, GB

[85] 2019-11-11

[86] 2018-05-10 (PCT/GB2018/051257)

[87] (WO2018/206957)

[30] GB (1707628.2) 2017-05-12

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[11] 3,063,624

[13] C

[51] Int.Cl. E05D 15/10 (2006.01)

[25] EN

[54] DISPLACEMENT ARRANGEMENT HAVING A ROLLING BEARING GUIDE

[54] DISPOSITIF DE DEPLACEMENT AVEC GUIDAGE DE PALIER A ROULEMENT

[72] REICH, WINFRIED, DE

[73] ROTO FRANK FENSTER- UND TURTECHNOLOGIE GMBH, DE

[85] 2019-11-14

[86] 2017-12-06 (PCT/EP2017/081694)

[87] (WO2018/114337)

[30] DE (10 2016 225 385.9) 2016-12-19

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[13] C

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[25] EN  
[54] FLUID DISPENSING SYSTEM  
[54] SYSTEME DE DISTRIBUTION DE FLUIDE  
[72] GUPTA, BHUSAN, CA  
[72] FARZANEH, HAMID, CA  
[72] PEZESHKI, FARHAD, CA  
[72] MOHIMEDI, SAEID, CA  
[73] M.I.S. ELECTRONICS INC., CA  
[85] 2019-11-29  
[86] 2018-06-01 (PCT/CA2018/050659)  
[87] (WO2018/218372)  
[30] US (62/513,638) 2017-06-01  
[30] US (62/513,658) 2017-06-01

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[11] 3,070,006  
[13] C

[51] Int.Cl. G06F 12/0864 (2016.01) G06F 12/0868 (2016.01)  
[25] EN  
[54] METHOD FOR READING DATA STORED IN A NON-VOLATILE CACHE USING RDMA  
[54] PROCEDE DE LECTURE DE DONNEES MEMORISEES DANS UNE MEMOIRE CACHE NON VOLATILE A L'AIDE D'UN RDMA  
[72] TAO, ZUOYU, US  
[72] SHI, JIA, US  
[72] UMAMAGESWARAN, KOTHANDA, US  
[72] LOAIZA, JUAN R., US  
[73] ORACLE INTERNATIONAL CORPORATION, US  
[85] 2020-01-14  
[86] 2018-09-28 (PCT/US2018/053487)  
[87] (WO2019/067937)  
[30] US (15/720,972) 2017-09-29

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[11] 3,070,009  
[13] C

[51] Int.Cl. G06F 12/02 (2006.01) G06F 16/10 (2019.01) G06F 13/28 (2006.01)  
[25] EN  
[54] DATABASE WITH NVDIMM AS PERSISTENT STORAGE  
[54] BASE DE DONNEES COMPRENANT UNE NVDIMM EN TANT QUE MEMORISATION PERSISTANTE  
[72] SHI, JIA, US  
[72] JIN, YILIANG, US  
[72] ZHANG, ZHEREN, US  
[72] TAO, ZUOYU, US  
[72] SRIDHARAN, VIJAY, US  
[72] UMAMAGESWARAN, KOTHANDA, US  
[72] IVEY, GRAHAM, US  
[72] LI, YUNRUI, US  
[72] CHOUDHURY, NILESH, US  
[72] MEIYYAPPAN, KRISHNAN, US  
[72] ZHANG, KAI, US  
[72] USTIMENKO, SEMEN, US  
[72] KOWSALYA, SALINI SELVARAJ, US  
[72] SARDASHTI, SOMAYEH, US  
[73] ORACLE INTERNATIONAL CORPORATION, US  
[85] 2020-01-14  
[86] 2018-09-28 (PCT/US2018/053557)  
[87] (WO2019/067990)  
[30] US (15/720,949) 2017-09-29

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[11] 3,070,701  
[13] C

[51] Int.Cl. G06T 7/00 (2017.01) G06T 7/30 (2017.01) G06N 3/02 (2006.01) G06T 1/40 (2006.01)  
[25] EN  
[54] SYSTEMS AND METHODS FOR PROCESSING IMAGES  
[54] SYSTEMES ET METHODES POUR TRAITER DES IMAGES  
[72] STEEVES, PATRICK, CA  
[72] ZHANG, YING, CA  
[73] SERVICENOW CANADA INC., CA  
[86] (3070701)  
[87] (3070701)  
[22] 2020-01-31

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[11] 3,071,685  
[13] C

[51] Int.Cl. G06V 20/69 (2022.01) G06T 7/10 (2017.01) A61B 5/0275 (2006.01) G06N 3/02 (2006.01)  
[25] EN  
[54] SYSTEMS, DEVICES, AND METHODS FOR IMAGE PROCESSING TO GENERATE AN IMAGE HAVING PREDICTIVE TAGGING  
[54] SYSTEMES, DISPOSITIFS ET PROCEDES DE TRAITEMENT D'IMAGE POUR GENERER UNE IMAGE PRESENTANT UN MARQUAGE PREDICTIF  
[72] JOHNSON, GREGORY, US  
[72] OUNKOMOL, CHAWIN, US  
[72] COLLMAN, FORREST, US  
[72] SESHAMANI, SHARMISHTAA, US  
[73] ALLEN INSTITUTE, US  
[85] 2020-01-30  
[86] 2018-08-08 (PCT/US2018/045840)  
[87] (WO2019/032723)  
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[54] SYSTEMES ET METHODES POUR FOURNIR UN ENVIRONNEMENT DE COMMUNICATIONS RENAT FACILITANT LES COMMUNICATIONS ENTRE UN POSTE DE TRAVAIL D'UTILISATEUR ET UN RESEAU PRIVE  
[72] MCKINNEY, JACK DENNIS, US  
[72] MCKINNEY, RICHARD LEE, US  
[73] E^NAT TECHNOLOGIES, LLC, US  
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- [54] COMPOSITION D'HUILE LUBRIFIANTE A FAIBLE VISCOSITE
- [72] ONOUCHI, HISANARI, JP
- [72] KUBO, KOICHI, JP
- [72] TANAKA, ISAO, JP
- [73] CHEVRON JAPAN LTD., JP
- [85] 2020-03-04
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- [25] EN
- [54] AUTOMATED BRANCHING WORKFLOW FOR A VERSION CONTROL SYSTEM
- [54] CREATION AUTOMATISEE DE BRANCHES DE FLUX DE TRAVAIL POUR UN SYSTEME DE CONTROLE DES VERSIONS
- [72] COSCARELLI, LORENZO, CA
- [72] BUCZYNSKI, MICHEL, CA
- [72] SCARFUTTI, JOSEPH VINCENT, CA
- [73] THE TORONTO-DOMINION BANK, CA
- [86] (3075044)
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- [30] US (16/793,996) 2020-02-18

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- [72] HERRA-VEGA, FLORENCIA, CA
- [72] DROUIN, VINCENT, CA
- [73] WORKJAM INC., CA
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- [86] 2018-10-01 (PCT/CA2018/051232)
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- [25] EN
- [54] MEDIA BREAK MANAGEMENT
- [54] GESTION DE PAUSE MULTIMEDIA
- [72] HENDERSON, DAVID, GB
- [72] WHITESIDE, LIAM, GB
- [73] GLOBAL MEDIA IP LIMITED, GB
- [85] 2020-04-09
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- [25] EN
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- [54] LAMPE DECORATIVE ET PROCEDE DE FABRICATION
- [72] ON, CHOW KWOK, CN
- [72] KAILANG, HUANG, CN
- [73] DONGGUAN KAILANG INDUSTRIAL CO., LTD., CN
- [86] (3080365)
- [87] (3080365)
- [22] 2020-05-01
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- [25] EN
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- [54] ANTICORPS ANTI-GALECTINE-9 ET LEURS UTILISATIONS
- [72] KOIDE, SHOHEI, US
- [72] MILLER, GEORGE, US
- [72] KOIDE, AKIKO, US
- [72] CHEN, LINXIAO, US
- [72] FILIPOVIC, ALEKSANDRA, GB
- [72] ELENKO, ERIC, US
- [72] BOLEN, JOSEPH, US
- [73] NEW YORK UNIVERSITY, US
- [73] PURETECH HEALTH, LLC, US
- [85] 2020-04-23
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- [54] COMMUNICATION D'EVENEMENTS DE MOBILITE DANS UN ENVIRONNEMENT DE RESEAU IMS
- [72] RAHMAN, MUHAMMAD TAWHIDUR, US
- [73] T-MOBILE USA, INC., US
- [85] 2020-06-01
- [86] 2019-01-09 (PCT/US2019/012943)
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- [30] US (15/866,383) 2018-01-09

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- [25] EN
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- [54] APPAREIL A FLUIDE
- [72] ABE, TAKAHIRO, JP
- [72] SUHARA, ATSUSHI, JP
- [73] DAIKIN INDUSTRIES, LTD., JP
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DEVICE AND METHODS FOR  
THE EVALUATION OF STONE  
BLOCKS  
[54] DISPOSITIF D'ANALYSE DE  
BLOCS DE PIERRE ET  
PROCEDES D'EVALUATION DE  
BLOCS DE PIERRE  
[72] RAHN, MR. UWE, DE  
[73] R&W INDUSTRIEAUTOMATION  
GMBH, DE  
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[54] GRAPHES DE CONNAISSANCES  
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[72] GERAGHTY, KEVIN, US  
[73] INTUIT INC., US  
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[25] EN  
[54] RAIL-BOUND TRACK SECTION  
EQUIPPED WITH AN  
AUTOMATIC TRAIN  
PROTECTION SYSTEM AND  
METHOD FOR OPERATING THE  
SAME  
[54] SECTION DE VOIE DE RAIL  
MUNIE D'UN SYSTEME DE  
PROTECTION DE TRAIN  
AUTOMATIQUE ET SON  
PROCEDE D'EXPLOITATION  
[72] HAMMERL, MALTE, DE  
[73] SIEMENS MOBILITY GMBH, DE  
[86] (3088624)  
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[25] EN  
[54] IMPROVED DIFFUSION LAYER  
FOR AN ENZYMATIC IN-VIVO  
SENSOR  
[54] COUCHE DE DIFFUSION  
AMELIOREE POUR UN CAPTEUR  
ENZYMATIQUE IN VIVO  
[72] STECK, ALEXANDER, DE  
[72] FUERST, ANGELIKA, DE  
[72] OCVIRK, GREGOR, DE  
[72] WOEHRLE, JUERGEN, DE  
[73] F. HOFFMANN-LA ROCHE AG, CH  
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[54] LIQUID CRYSTAL ELEMENT,  
PHASE MODULATION DEVICE,  
AND CONTROL METHOD OF  
LIQUID CRYSTAL ELEMENT  
[54] ELEMENT A CRISTAUX  
LIQUIDES, DISPOSITIF DE  
MODULATION DE PHASE, ET  
PROCEDE DE COMMANDE  
D'ELEMENT A CRISTAUX  
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[73] JVCKENWOOD CORPORATION, JP  
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  - [25] EN
  - [54] **PROCESSING OF A BITUMEN FROTH TREATMENT OVERFLOW STREAM FROM FROTH TREATMENT TAILINGS FOR ENHANCED RECOVERY OF BITUMEN**
  - [54] **TRAITEMENT D'UN FLUX DE DEBORDEMENT DE TRAITEMENT D'ECUME DE BITUME PROVENANT DE RESIDUS DE TRAITEMENT D'ECUME POUR UNE RECUPERATION AMELIOREE DU BITUME**
  - [72] HOLLANDER, ELCO DICK, CA
  - [72] DERAKHSANDEH, BABAK, CA
  - [72] BROWN, WAYNE, CA
  - [72] ALLY, JAVED, CA
  - [72] TOOR, RAMN, CA
  - [73] SUNCOR ENERGY INC., CA
  - [86] (3094533)
  - [87] (3094533)
  - [22] 2020-09-25
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- [54] **MICROFLUIDIC METHOD FOR SINGLE CELL ANALYSIS**
- [54] **PROCEDE MICROFLUIDIQUE POUR ANALYSE DE CELLULE UNIQUE**
- [72] GERARD, ANNABELLE PATRICIA VERONIQUE, FR
- [72] MENRATH, VERA, FR
- [73] HIFIBIO SAS, FR
- [85] 2020-10-15
- [86] 2019-04-18 (PCT/EP2019/060210)
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  - [25] EN
  - [54] **USING AN ACOUSTIC DEVICE TO IDENTIFY EXTERNAL APPARATUS MOUNTED TO A TUBULAR**
  - [54] **UTILISATION D'UN DISPOSITIF ACOUSTIQUE POUR DETERMINER UN APPAREIL EXTERNE MONTE SUR UN TUBULAIRE**
  - [72] LUU, TIM, CA
  - [72] MAHMOUD, ANAS, CA
  - [73] DARKVISION TECHNOLOGIES INC., CA
  - [86] (3098183)
  - [87] (3098183)
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  - [54] **HYDRAULIC DRIVE CONTROL**
  - [54] **COMMANDE D'ENTRAINEMENT HYDRAULIQUE**
  - [72] HABERMAN, WILLIAM E., US
  - [72] YOUNG, CHRISTOPHER L., US
  - [72] ALGER, TIMOTHY J., US
  - [73] CLARK EQUIPMENT COMPANY, US
  - [85] 2020-11-09
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- [25] EN
- [54] **METHOD OF CONTROLLING A WIND FARM**
- [54] **METHODE DE CONTROLE D'UN PARC EOLIEN**
- [72] BROMBACH, JOHANNES, DE
- [72] AMELSBERG, SWANTJE, DE
- [72] BUSKER, KAI, DE
- [73] WOBKEN PROPERTIES GMBH, DE
- [86] (3100533)
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- [22] 2020-11-24
- [30] DE (102019132786.5) 2019-12-03

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[13] C

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  - [25] EN
  - [54] **FLOOR COVERING, FLOOR ELEMENT AND METHOD FOR MANUFACTURING FLOOR ELEMENTS**
  - [54] **REVETEMENT DE SOL, ELEMENT DE PLANCHER ET METHODE DE FABRICATION D'ELEMENTS DE PLANCHER**
  - [72] CAPPELLE, MARK, BE
  - [73] FLOORING INDUSTRIES LIMITED, SARL, LU
  - [86] (3102185)
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  - [22] 2007-03-22
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- [54] **RACCORD HYDRAULIQUE**
- [72] AGNEW, DENNIS, US
- [72] DURKIN, BRENT C., US
- [72] LOEBS, CAREN A., US
- [72] KRIEGER, DANIEL J. K., US
- [73] CLARK EQUIPMENT COMPANY, US
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- [54] INHIBITEURS DE CAPSIDES POUR LE TRAITEMENT DU VIH
- [72] BAUER, LAURA ELIZABETH, US
- [72] GORMAN, ERIC M., US
- [72] MULATO, ANDREW STEPHEN, US
- [72] RHEE, MARTIN SUNKWANG, US
- [72] ROWE, CHARLES WILLIAM, US
- [72] SELLERS, SCOTT P., US
- [72] STEFANIDIS, DIMITRIOS, US
- [72] TSE, WINSTON C., US
- [72] YANT, STEPHEN R., US
- [72] CHIU, ANNA, US
- [72] LEVINE, DANA J., US
- [73] GILEAD SCIENCES, INC., US
- [85] 2020-12-10
- [86] 2019-07-15 (PCT/US2019/041880)
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- [25] EN
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- [54] VEHICULE AERIEN SANS PILOTE A ROTOR COAXIAL DE TRANSPORT DE CHARGES LOURDES
- [72] GREEN, JUSTIN WESLEY, US
- [73] GREEN, JUSTIN WESLEY, US
- [85] 2020-12-15
- [86] 2019-06-27 (PCT/US2019/039511)
- [87] (WO2020/055494)
- [30] US (62/691,033) 2018-06-28
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- [54] COMPOSITION DESTINEE AU TRAITEMENT DU SYNDROME DE L'OEIL SEC ET DE LA MEIBOMITE
- [72] BREIVIK, HARALD, NO
- [72] SVENSEN, HARALD, NO
- [72] STOKNES, IREN MERETE SKJASTAD, NO
- [73] EPAX NORWAY AS, NO
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- [87] (WO2019/245382)
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- [54] ENSEMBLE APPLICATEUR DE PIERRE PRECIEUSE
- [72] CELLA, ANGIE, US
- [72] DIAZ, FEDERICO, GB
- [72] MERCIER, MATTHEW, US
- [72] BURRILL, JOHN, US
- [72] VERMA, VISHAAL, US
- [72] ABBOTT, BRADLEY, US
- [73] GEMC2, LLC, US
- [85] 2021-01-05
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- [25] EN
- [54] WEIGHING SYSTEM AND METHOD
- [54] SYSTEME ET METHODE DE PESAGE
- [72] BLANKLEY, RANDY L., JR, US
- [72] LANDES, ERIC D., US
- [72] DAVIS, ROBERT S., US
- [72] ANTONIDES, DOUGLAS J., US
- [72] PEVOAR, LAWRENCE A., US
- [73] ILLINOIS TOOL WORKS INC., US
- [86] (3106003)
- [87] (3106003)
- [22] 2021-01-19
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- [25] EN
- [54] USING DISTRIBUTED ACCOUSTIC SENSING (DAS) CUMULATIVE STRAIN TO RELATE NEAR WELLBORE COMPLETIONS PERFORMANCE AND FAR-FIELD CROSS WELL COMMUNICATION
- [54] UTILISATION D'UNE TENSION CUMULATIVE DE DETECTION ACOUSTIQUE DISTRIBUEE POUR METTRE EN RELATION LE RENDEMENT D'ACHEVEMENTS DE TROU DE FORAGE PROCHES ET LA COMMUNICATION ELOIGNEE ENTRE LES PUITS
- [72] HENAO, TITO C., US
- [72] BYRD, GRAYSON DANE, US
- [72] MEYER, NATHANIEL ANDREW, US
- [73] HALLIBURTON ENERGY SERVICES, INC., US
- [86] (3106797)
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[54] ADVANCED POWER-SAVING MODE FOR BATTERY POWERED DEVICES  
[54] MODE D'ECONOMIE D'ENERGIE AVANCEE POUR LES DISPOSITIFS ALIMENTES PAR BATTERIE  
[72] COTTLE, CHARLES, US  
[73] NEPTUNE TECHNOLOGY GROUP INC., US  
[86] (3108975)  
[87] (3108975)  
[22] 2021-02-16  
[30] US (62/981,610) 2020-02-26
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[54] ANTIPATHOGENIC COMPOSITIONS AND METHODS THEREOF  
[54] COMPOSITIONS ANTI-PATHOGENES ET LEURS PROCEDES  
[72] MCENTIRE, BRYAN J., US  
[72] BOCK, RYAN M., US  
[72] BAL, BHAJANJIT SINGH, US  
[73] SINTX TECHNOLOGIES, INC., US  
[85] 2021-02-16  
[86] 2019-08-26 (PCT/US2019/048072)  
[87] (WO2020/051004)  
[30] US (62/727,724) 2018-09-06  
[30] US (62/800,034) 2019-02-01
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[25] EN  
[54] SHAKER ASSEMBLIES HAVING POSITIONING DEVICES  
[54] ENSEMBLES VIBRANTS MUNIS DE DISPOSITIFS DE POSITIONNEMENT  
[72] STROBEL, ANDREW ALBERT, US  
[72] HOFLAND, DANIEL JOHN, US  
[73] VERMEER MANUFACTURING COMPANY, US  
[86] (3111733)  
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[22] 2019-04-26  
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[72] SU, WEI-NIEN, TW  
[72] HWANG, BING-JOE, TW  
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[73] VENTANA MEDICAL SYSTEMS, INC., US  
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[72] HILL, ANDREW, CA  
[72] ZAAG, NADER, CA  
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[72] SORBERA, SONIA, CA  
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[73] HYDROGENICS CORPORATION, CA  
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[54] DEVICES AND METHODS FOR IMPACT DETECTION AND ASSOCIATED DATA TRANSMISSION  
[54] DISPOSITIFS ET PROCEDES DE DETECTION D'IMPACT ET DE TRANSMISSION DE DONNEES ASSOCIEE  
[72] SELEVAN, DANIEL J., US  
[72] SELEVAN, ADAM J., US  
[72] SELEVAN, JAMES R., US  
[73] SELEVAN, ADAM J., US  
[73] SELEVAN, JAMES R., US  
[85] 2022-07-06  
[86] 2021-01-10 (PCT/US2021/012873)  
[87] (WO2021/142398)  
[30] US (62/959,847) 2020-01-10  
[30] US (62/959,184) 2020-01-10  
[30] US (16/775,055) 2020-01-28

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[13] C

[51] Int.Cl. B60K 1/04 (2019.01) B60L 50/64 (2019.01) H01M 50/242 (2021.01) H01M 50/249 (2021.01)  
[25] EN  
[54] PROTECTIVE ELEMENT FOR A BATTERY PACK OF A HYBRID OR ELECTRIC VEHICLE AND PROCESS FOR THE ASSEMBLING OF A REINFORCED BATTERY PACK  
[54] ELEMENT DE PROTECTION D'UN BLOC-BATTERIE D'UN VEHICULE HYBRIDE OU ELECTRIQUE, ET PROCEDE D'ASSEMBLAGE D'UN BLOC-BATTERIE RENFORCE  
[72] SCHNEIDER, NICOLAS, FR  
[72] BARDIN, KEVIN, FR  
[73] ARCELORMITTAL, LU  
[85] 2022-06-17  
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[87] (WO2021/130606)  
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[25] EN  
[54] PROCESS FOR PREPARATION OF BIOLOGICALLY ACTIVE COPOLYMER  
[54] PROCEDE DE PREPARATION D'UN COPOLYMORE BIOLOGIQUEMENT ACTIF  
[72] MELROSE, GRAHAM JOHN HAMILTON, AU  
[72] DILIZIA, MICHELE KERYN, AU  
[72] JARRETT, THOMAS GABRIEL WELLS, AU  
[72] KOLLARAS, ARTHUR, AU  
[72] WARD, JUSTIN MARK, AU  
[73] RECCE PHARMACEUTICALS LTD, AU  
[85] 2022-07-28  
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[25] EN  
[54] COMPOUNDS CONTAINING BENZOSULTAM AS ERK INHIBITORS  
[54] COMPOSES CONTENANT DU BENZOSULTAM COMME INHIBITEURS D'ERK  
[72] LIU, XILE, CN  
[72] DING, CHARLES Z., CN  
[72] CHEN, SHUHUI, CN  
[72] HU, LIHONG, CN  
[72] WAN, HAIWEN, CN  
[72] JIANG, XIU, CN  
[73] MEDSHINE DISCOVERY INC., CN  
[85] 2022-10-28  
[86] 2021-04-26 (PCT/CN2021/089889)  
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[30] CN (202010363156.1) 2020-04-30  
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[13] C

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[25] EN  
[54] GAS PROCESSING METHODOLOGY UTILIZING REFLUX AND ADDITIONALLY SYNTHESIZED STREAM OPTIMIZATION  
[54] METHODE DE TRAITEMENT DE GAZ UTILISANT LE REFLUX ET EGALEMENT UNE OPTIMISATION DE FLUX SYNTHETISE  
[72] MACKENZIE, STUART, CA  
[72] GRYNIA, EUGENIUSZ, CA  
[72] MACKENZIE, KELLY, CA  
[73] GAS LIQUIDS ENGINEERING LTD, CA  
[86] (3180237)  
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[25] EN  
[54] FIREARM SYSTEMS AND METHODS  
[54] SYSTEMES ET PROCEDES RELATIFS A UNE ARME A FEU  
[72] SULLIVAN, LEROY JAMES, US  
[72] MCGARRY, JAMES, US  
[72] WATERFIELD, ROBERT LLOYD, US  
[72] LATULIPPE, PAUL N., JR., US  
[73] ARM WEST, LLC, US  
[86] (3180599)  
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[25] EN  
[54] PROCESS FOR CAPTURE OF CARBON DIOXIDE FROM AIR AND THE DIRECT CONVERSION OF CARBON DIOXIDE INTO FUELS AND CHEMICALS  
[54] PROCEDE DE CAPTURE DE DIOXYDE DE CARBONE DANS L'AIR ET CONVERSION DIRECTE DE DIOXYDE DE CARBONE EN CARBURANTS ET PRODUITS CHIMIQUES  
[72] SCHUETZLE, ROBERT, US  
[72] SCHUETZLE, DENNIS, US  
[72] WRIGHT, HAROLD, US  
[72] HANBURY, ORION, US  
[72] CALDWELL, MATTHEW, US  
[72] RODRIGUEZ, RAMER, US  
[73] INFINIUM TECHNOLOGY, LLC, US  
[85] 2022-10-20  
[86] 2021-05-03 (PCT/US2021/010020)  
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[25] EN  
[54] A WEB-BASED VIDEOCONFERENCE VIRTUAL ENVIRONMENT WITH NAVIGABLE AVATARS, AND APPLICATIONS THEREOF  
[54] ENVIRONNEMENT VIRTUEL DE VIDEOCONFERENCE BASE SUR LE WEB AVEC AVATARS POUVANT NAVIGUER, ET SES APPLICATIONS  
[72] KROL, GERARD CORNELIS, US  
[72] BRAUND, ERIK STUART, US  
[73] KATMAI TECH INC., US  
[85] 2022-10-26  
[86] 2021-10-20 (PCT/US2021/055875)  
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[30] US (17/075,338) 2020-10-20  
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[25] EN  
[54] ADVANCED DUMBBELL PCR FOR ISOMIR DETECTION  
[54] PCR D'HALTERE AVANCEE POUR DETECTION D'ISOMIR  
[72] HOROS, RASTISLAV, DE  
[72] STEINKRAUS, BRUNO, DE  
[73] HUMMINGBIRD DIGANOSTICS GMBH, DE  
[85] 2023-03-02  
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[25] EN

[54] **SYSTEM, METHOD, AND  
SATELLITES FOR  
SURVEILLANCE IMAGING AND  
EARTH OBSERVATION USING  
SYNTHETIC APERTURE RADAR  
IMAGING**

[54] **SYSTEME, PROCEDE ET  
SATELLITES D'IMAGERIE DE  
SURVEILLANCE ET  
D'OBSERVATION TERRESTRE A  
L'AIDE D'UNE IMAGERIE RADAR  
A SYNTHESE D'OUVERTURE**

[72] BOWERS, JOHN, CA

[72] HOYLE, WAYNE, CA

[72] MALAVIARACHCHI, PAT, CA

[72] SENEZ, MARK, CA

[72] OGLOW, RYAN, CA

[72] THOMPSON, ALAN, CA

[72] SIROVLJEVIC, JELENA, CA

[72] LEE, TERENCE, CA

[73] MDA SYSTEMS LTD., CA

[85] 2023-03-16

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[25] EN

[54] **OPTICAL APERTURE  
MULTIPLIERS HAVING A  
RECTANGULAR WAVEGUIDE**

[54] **MULTIPLICATEURS A  
OUVERTURE OPTIQUE AYANT  
UN GUIDE D'ONDES  
RECTANGULAIRE**

[72] EISENFELD, TSION, IL

[72] DANZIGER, YOCHAY, IL

[72] RONEN, EITAN, IL

[72] CHRIKI, RONEN, IL

[72] GILO, MORDECHAI, IL

[72] SHARLIN, ELAD, IL

[73] LUMUS LTD., IL

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[13] A1

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[25] EN  
[54] SCREEN CLOTHS  
[54] TOILES DE CRIBLAGE  
[72] OBAIA, KHALED, CA  
[72] ROTH, HUGH, CA  
[71] SYNCRUD CANADA LTD. IN  
TRUST FOR THE OWNERS OF THE  
SYNCRUD PROJECT AS SUCH  
OWNERS EXIST NOW AND IN THE  
FUTURE, CA  
[22] 2022-05-05  
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[21] 3,157,715  
[13] A1

[51] Int.Cl. B26B 1/02 (2006.01)  
[25] EN  
[54] FOLDING KNIFE WITH THE  
FREDETTE BAND AND THE  
FREDETTE FINGER PIT  
[54] COUTEAU PLIANT  
COMPRENANT LA BANDE  
FREDETTE BAND ET LA  
POIGNEE MOULEE FREDETTE  
FINGER PIT  
[72] FREDETTE, PIERRE-ALEXANDRE,  
CA  
[71] FREDETTE, PIERRE-ALEXANDRE,  
CA  
[22] 2022-05-05  
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[13] A1

[51] Int.Cl. H02G 1/04 (2006.01) B66C  
15/06 (2006.01) B66C 23/88 (2006.01)  
G05D 3/00 (2006.01)  
[25] EN  
[54] RETROFIT SYSTEM AND  
METHOD FOR MAINTAINING  
MINIMUM APPROACH  
DISTANCE  
[54] SYSTEME ADAPTE ET METHODE  
POUR MAINTENIR LA DISTANCE  
D'APPROCHE MINIMALE  
[72] CASSIDY, RANDOLPH BOLTON, US  
[72] PIPSAIR, JONATHAN BREAUX, US  
[72] HELMKE, DEREK MICHAEL, US  
[72] SNAPP, CHRISTOPHER JAMES, US  
[71] QUANTA ASSOCIATES, L.P., US  
[22] 2022-05-05  
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[13] A1

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30/40 (2018.01) G06T 1/20 (2006.01)  
A61F 9/008 (2006.01)  
[25] EN  
[54] SYSTEM AND METHODS FOR  
COMBINED REAL-TIME AND  
NON-REAL-TIME DATA  
PROCESSING  
[54] SYSTEME ET METHODES POUR  
LE TRAITEMENT DE DONNEES  
COMBINE EN TEMPS REEL ET  
NON EN TEMPS REEL  
[72] KATCHINSKIY, NIR, CA  
[72] CEROICI, CHRISTOPHER, CA  
[72] RIVET-SABOURIN, GEOFFROY, CA  
[71] PULSEMEDICA CORP., CA  
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[13] A1

[51] Int.Cl. C09K 15/06 (2006.01) C09K  
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[25] EN  
[54] STABILIZED MODIFIED ACID  
PRE-BLENDS  
[54] PREMELANGES D'ACIDE  
MODIFIE STABILISE  
[72] WEISSENBERGER, MARKUS, CA  
[72] GHEZELBASHAN, ARYAN, CA  
[72] CHKOLNY, NIKITA, CA  
[71] FLUID ENERGY GROUP LTD., CA  
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[13] A1

[51] Int.Cl. G01L 5/102 (2020.01)  
[25] EN  
[54] INSTRUMENTED LOAD CELL  
FOR FITNESS TRAINING USE  
[54] MESUREUR DE FORCE  
INSTRUMENTE AUX FINS DE  
CONDITIONNEMENT PHYSIQUE  
[72] LOTHIAN, GREG, CA  
[72] GILL, SCOTT, CA  
[72] CLOGHESY, SEAN, CA  
[71] ACCULETE INC., CA  
[22] 2022-05-06  
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[13] A1

[51] Int.Cl. G05D 22/02 (2006.01) F24F  
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[25] EN  
[54] HUMIDIFICATION APPARATUS  
AND METHOD  
[54] APPAREIL ET METHODE  
D'HUMIDIFICATION  
[72] VANDERPLAAT, PETER G., CA  
[72] D'SOUZA, KEVIN R., CA  
[72] A RAZ, ARMAND B., CA  
[71] CANADIAN GENERAL FILTERS  
LIMITED, CA  
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**Demandes canadiennes mises à la disponibilité du public**  
**5 novembre 2023 au 11 novembre 2023**

<p style="text-align: right;">[21] <b>3,158,643</b>  [13] A1</p> <p>[51] Int.Cl. A23J 1/14 (2006.01) A23K 10/30 (2016.01) A23K 20/142 (2016.01) A23K 20/158 (2016.01) A23L 33/105 (2016.01) A23L 33/115 (2016.01) A23L 33/185 (2016.01)</p> <p>[25] EN</p> <p>[54] PROCESSING OF OILSEED</p> <p>[54] TRANSFORMATION DES OLEAGINEUX</p> <p>[72] CORREDIG, MILENA, DK</p> <p>[72] ALPIGER, SIMONE BLEIBACH, DK</p> <p>[71] AARHUS UNIVERSITET, DK</p> <p>[22] 2022-05-11</p> <p>[41] 2023-11-11</p>	<p style="text-align: right;">[21] <b>3,159,031</b>  [13] A1</p> <p>[51] Int.Cl. E04G 25/04 (2006.01) E04H 12/18 (2006.01) E04H 17/20 (2006.01) E04H 17/26 (2006.01) F16B 7/14 (2006.01) E04G 21/32 (2006.01)</p> <p>[25] EN</p> <p>[54] ERECTABLE COMPRESSION POSTS FOR TEMPORARY FENCING INSTALLATION</p> <p>[54] POTEAUX DE COMPRESSION A ERIGER POUR UNE INSTALLATION DE CLOTURE TEMPORAIRE</p> <p>[72] CUTRONE, MIKE, CA</p> <p>[71] TOPS SCAFFOLD &amp; SHORING SUPPLY LTD., CA</p> <p>[22] 2022-05-16</p> <p>[41] 2023-11-07</p>	<p style="text-align: right;">[21] <b>3,159,106</b>  [13] A1</p> <p>[51] Int.Cl. G06Q 40/03 (2023.01) G06Q 30/06 (2023.01)</p> <p>[25] EN</p> <p>[54] VEHICLE MATCHING SYSTEM AND METHOD</p> <p>[54] SYSTEME ET METHODE DE JUMELAGE DE VEHICULE</p> <p>[72] AVERY, CHRIS, CA</p> <p>[72] LIM, ARTHUR, CA</p> <p>[72] PASTOR, PETER, CA</p> <p>[72] LAM, TED, CA</p> <p>[71] AVERY, CHRIS, CA</p> <p>[71] LIM, ARTHUR, CA</p> <p>[71] PASTOR, PETER, CA</p> <p>[71] LAM, TED, CA</p> <p>[22] 2022-05-17</p> <p>[41] 2023-11-11</p> <p>[30] US (17/742,290) 2022-05-11</p>
<p style="text-align: right;">[21] <b>3,158,674</b>  [13] A1</p> <p>[51] Int.Cl. F16L 1/028 (2006.01) E02D 13/00 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD AND APPARATUS FOR TRENCHLESS EXTRACTION OF PIPE</p> <p>[54] METHODE ET APPAREIL POUR L'EXTRACTION D'UNE CANALISATION SANS TRANCHEE</p> <p>[72] GAUNT, SHAWN, CA</p> <p>[72] BROWN, ELLIOTT, CA</p> <p>[71] THE TUNNELING COMPANY INC., CA</p> <p>[22] 2022-05-11</p> <p>[41] 2023-11-11</p>	<p style="text-align: right;">[21] <b>3,159,101</b>  [13] A1</p> <p>[51] Int.Cl. B23B 47/00 (2006.01) B23Q 1/03 (2006.01)</p> <p>[25] EN</p> <p>[54] CLAMP APPARATUS FOR DRILL PRESS</p> <p>[54] APPAREIL DE SERRAGE POUR UNE PERCEUSE A COLONNE</p> <p>[72] MOREAU, ERIC, CA</p> <p>[72] MOREAU, MARY, CA</p> <p>[71] MOREAU, ERIC, CA</p> <p>[71] MOREAU, MARY, CA</p> <p>[22] 2022-05-17</p> <p>[41] 2023-11-11</p> <p>[30] US (17/742,297) 2022-05-11</p>	<p style="text-align: right;">[21] <b>3,159,502</b>  [13] A1</p> <p>[51] Int.Cl. E04H 4/16 (2006.01)</p> <p>[25] EN</p> <p>[54] POOL SKIMMING APPARATUS</p> <p>[54] APPAREIL D'ECUMAGE DE PISCINE</p> <p>[72] REVER, JENNIFER, CA</p> <p>[72] GROZELLE, STEPHEN, CA</p> <p>[71] REVER, JENNIFER, CA</p> <p>[71] GROZELLE, STEPHEN, CA</p> <p>[22] 2022-05-20</p> <p>[41] 2023-11-11</p> <p>[30] US (17/742,301) 2022-05-11</p>
<p style="text-align: right;">[21] <b>3,158,705</b>  [13] A1</p> <p>[51] Int.Cl. G06Q 40/03 (2023.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR PROCESSING INSTRUCTIONS ASSOCIATED WITH ONE OR MORE DATA TRANSFERS</p> <p>[54] SYSTEME ET METHODE DE TRAITEMENT DES INSTRUCTIONS ASSOCIEES A UN OU PLUSIEURS TRANSFERTS DE DONNEES</p> <p>[72] TAGGART, MICHAEL JAMES, CA</p> <p>[72] TURKINGTON, SAM ALEXANDER, CA</p> <p>[71] THE TORONTO-DOMINION BANK, CA</p> <p>[22] 2022-05-10</p> <p>[41] 2023-11-10</p>	<p style="text-align: right;">[21] <b>3,159,103</b>  [13] A1</p> <p>[51] Int.Cl. E03D 9/05 (2006.01)</p> <p>[25] EN</p> <p>[54] UNIVERSAL TOILET ODOR REMOVAL SYSTEM</p> <p>[54] SYSTEME UNIVERSEL D'ELIMINATION DES ODEURS DE TOILETTE</p> <p>[72] WILSON, JORDAN, CA</p> <p>[72] WILSON, BARRY, CA</p> <p>[71] WILSON, JORDAN, CA</p> <p>[71] WILSON, BARRY, CA</p> <p>[22] 2022-05-17</p> <p>[41] 2023-11-11</p> <p>[30] US (17/742,280) 2022-05-11</p>	<p style="text-align: right;">[21] <b>3,160,093</b>  [13] A1</p> <p>[51] Int.Cl. G06N 20/00 (2019.01) G06N 5/04 (2023.01)</p> <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR OPTIMIZING MULTI-STAGE DATA PROCESSING</p> <p>[54] SYSTEMES ET METHODES POUR OPTIMISER LE TRAITEMENT DE DONNEES A MULTIPLES ETAPES</p> <p>[72] YANG, DAN NI, CA</p> <p>[72] NIKOGHOSSIAN, MELINE, CA</p> <p>[72] HAJARIAN, ELHAM, CA</p> <p>[72] SOLTANIFAR, BEHJAT, CA</p> <p>[72] PATEL, KARISHMA HARSHAL, CA</p> <p>[71] THE TORONTO-DOMINION BANK, CA</p> <p>[22] 2022-05-11</p> <p>[41] 2023-11-11</p>

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<p style="text-align: right; margin-bottom: 0;">[21] <b>3,160,685</b></p> <p style="text-align: right; margin-top: 0;">[13] A1</p> <p>[51] Int.Cl. G06F 17/00 (2019.01) G06F 16/90 (2019.01) H04L 9/40 (2022.01) H04L 67/564 (2022.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR PROCESSING INSTRUCTIONS ASSOCIATED WITH ONE OR MORE DATA TRANSFERS</p> <p>[54] SYSTEME ET METHODE DE TRAITEMENT DES INSTRUCTIONS ASSOCIEES A UN OU PLUSIEURS TRANSFERTS DE DONNEES</p> <p>[72] DICARLANTONIO, MARK ANTHONY, CA</p> <p>[72] SAKRISSON, PETER JOHN, CA</p> <p>[71] THE TORONTO-DOMINION BANK, CA</p> <p>[22] 2022-05-26</p> <p>[41] 2023-11-11</p> <p>[30] US (17/741,848) 2022-05-11</p>	<p style="text-align: right; margin-bottom: 0;">[21] <b>3,166,266</b></p> <p style="text-align: right; margin-top: 0;">[13] A1</p> <p>[51] Int.Cl. H02B 1/03 (2006.01) H02G 15/02 (2006.01)</p> <p>[25] EN</p> <p>[54] METER SOCKET WITH METER JAW AND TERMINATION CONNECTOR ASSEMBLY</p> <p>[54] EMBASE COMPRENANT UNE MACHOIRE ET UN ASSEMBLAGE DE CONNEXION DE TERMINAISON</p> <p>[72] GLASGOW, SHAWN, US</p> <p>[72] MCCARTHY, WILLIAM, US</p> <p>[71] MILBANK MANUFACTURING CO., US</p> <p>[22] 2022-06-30</p> <p>[41] 2023-11-05</p> <p>[30] US (17/737228) 2022-05-05</p>	<p style="text-align: right; margin-bottom: 0;">[21] <b>3,190,096</b></p> <p style="text-align: right; margin-top: 0;">[13] A1</p> <p>[51] Int.Cl. E02D 11/00 (2006.01) E02D 5/56 (2006.01) E02D 7/00 (2006.01) E02D 7/22 (2006.01)</p> <p>[25] EN</p> <p>[54] REMOVABLE SHORING ELEMENT</p> <p>[54] ELEMENT DE CHEVALEMENT AMOVIBLE</p> <p>[72] LAMONTAGNE, RICHARD, CA</p> <p>[71] RICHLYN DEVELOPMENTS LTD., CA</p> <p>[22] 2023-02-16</p> <p>[41] 2023-11-07</p>
<p style="text-align: right; margin-bottom: 0;">[21] <b>3,162,998</b></p> <p style="text-align: right; margin-top: 0;">[13] A1</p> <p>[51] Int.Cl. H04W 76/25 (2018.01) H04W 88/04 (2009.01) H04W 92/16 (2009.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR CONFIGURING A PORTABLE COMMUNICATION SYSTEM</p> <p>[54] SYSTEME ET METHODE POUR LA CONFIGURATION D'UN SYSTEME DE COMMUNICATION PORTATIF</p> <p>[72] FUMAROLO, ARTHUR, CA</p> <p>[72] LJUMOVIC, NEBOJSA, CA</p> <p>[71] FUTURECOM SYSTEMS GROUP, ULC, CA</p> <p>[22] 2022-06-16</p> <p>[41] 2023-11-10</p> <p>[30] US (17/741,147) 2022-05-10</p>	<p style="text-align: right; margin-bottom: 0;">[21] <b>3,171,949</b></p> <p style="text-align: right; margin-top: 0;">[13] A1</p> <p>[51] Int.Cl. G16H 10/60 (2018.01) G06F 16/30 (2019.01) G06N 20/00 (2019.01) G06F 40/279 (2020.01) G06F 40/30 (2020.01)</p> <p>[25] EN</p> <p>[54] EXTRACTION OF PATIENT-LEVEL CLINICAL EVENTS FROM UNSTRUCTURED CLINICAL DOCUMENTATION</p> <p>[54] EXTRACTION D'EVENEMENTS CLINIQUES AU NIVEAU DU PATIENT A PARTIR DE DOCUMENTS CLINIQUES NON STRUCTURES</p> <p>[72] LI, WENKAI (AARON), CA</p> <p>[72] AVIV, STEPHEN, CA</p> <p>[71] PENTAVERE RESEARCH GROUP INC., CA</p> <p>[22] 2022-08-30</p> <p>[41] 2023-11-10</p> <p>[30] US (63/340,247) 2022-05-10</p>	<p style="text-align: right; margin-bottom: 0;">[21] <b>3,191,429</b></p> <p style="text-align: right; margin-top: 0;">[13] A1</p> <p>[51] Int.Cl. F21V 9/06 (2018.01) A61L 2/10 (2006.01) A61L 9/20 (2006.01) F21S 8/02 (2006.01) F21S 10/00 (2006.01)</p> <p>[25] EN</p> <p>[54] ULTRA-VIOLET LIGHTING FIXTURE</p> <p>[54] APPAREIL D'ECLAIRAGE ULTRAVIOLET</p> <p>[72] NEMI, SANTINO, CA</p> <p>[72] MAGISANO, ANTONIO, CA</p> <p>[72] CUSMARIU, SANDU, CA</p> <p>[72] STEVENS, TIMOTHY, CA</p> <p>[72] LIU, SONG, CA</p> <p>[71] VISCOR INC., CA</p> <p>[22] 2023-02-28</p> <p>[41] 2023-11-10</p> <p>[30] US (17/740,746) 2022-05-10</p>
<p style="text-align: right; margin-bottom: 0;">[21] <b>3,179,663</b></p> <p style="text-align: right; margin-top: 0;">[13] A1</p> <p>[51] Int.Cl. B65D 47/28 (2006.01) B65D 43/04 (2006.01) B65D 55/02 (2006.01)</p> <p>[25] EN</p> <p>[54] LEAKPROOF SLIDING LID</p> <p>[54] COUVERCLE GLISSANT ETANCHE</p> <p>[72] XIE, XIAN PING, CN</p> <p>[71] DENG, CHENYUAN, CA</p> <p>[22] 2022-10-24</p> <p>[41] 2023-11-10</p> <p>[30] CN (202221101338.2) 2022-05-10</p>	<p style="text-align: right; margin-bottom: 0;">[21] <b>3,192,970</b></p> <p style="text-align: right; margin-top: 0;">[13] A1</p> <p>[51] Int.Cl. A47C 13/00 (2006.01) A47C 1/00 (2006.01) A47C 9/10 (2006.01) A63B 25/00 (2006.01)</p> <p>[25] EN</p> <p>[54] MULTIFUNCTIONAL CHAIR</p> <p>[54] FAUTEUIL POLYVALENT</p> <p>[72] WANG, KUEI-YUNG, TW</p> <p>[71] NAN YA PLASTICS CORPORATION, TW</p> <p>[22] 2023-03-13</p> <p>[41] 2023-11-09</p> <p>[30] TW (111204731) 2022-05-09</p> <p>[30] TW (112200837) 2023-01-31</p>	

**Demandes canadiennes mises à la disponibilité du public**  
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<p style="text-align: right; margin-top: -10px;"><b>[21] 3,193,320</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. B64D 11/00 (2006.01) B64D 25/00 (2006.01) E05D 15/06 (2006.01) E06B 3/46 (2006.01) E06B 5/00 (2006.01)</p> <p>[25] EN</p> <p>[54] DUAL OPERATION EMERGENCY PASSAGE EGRESS SYSTEM</p> <p>[54] SYSTEME DE PASSAGE D'EVACUATION D'URGENCE A DEUX FONCTIONS</p> <p>[72] SCOTFORD, TIMOTHY, US</p> <p>[72] MORGAN, PAUL, US</p> <p>[72] RAIKES, ROBERT, US</p> <p>[72] EDWARDS, PAUL, US</p> <p>[71] ADIENT AEROSPACE LLC, US</p> <p>[22] 2023-03-17</p> <p>[41] 2023-11-06</p> <p>[30] US (17/738657) 2022-05-06</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,194,022</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. G06Q 10/087 (2023.01) G06Q 20/38 (2012.01) G06F 16/27 (2019.01)</p> <p>[25] EN</p> <p>[54] METHODS AND SYSTEMS FOR INVENTORY MANAGEMENT FOR BLOCKCHAIN-BASED TRANSACTIONS</p> <p>[54] METHODES ET SYSTEMES POUR LA GESTION D'INVENTAIRE AUX FINIS DE TRANSACTIONS SUR LA CHAINE DE BLOCS</p> <p>[72] NGO, ANDREW, CA</p> <p>[72] FULKS, ALAN ASHLEY, CA</p> <p>[72] LEE, JOHN JONG-SUK, CA</p> <p>[71] SHOPIFY INC., CA</p> <p>[22] 2023-03-23</p> <p>[41] 2023-11-05</p> <p>[30] US (17/866,746) 2022-07-18</p> <p>[30] US (63/338,553) 2022-05-05</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,197,452</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. B01D 11/04 (2006.01) B01D 53/14 (2006.01) B01D 53/48 (2006.01) C10G 21/14 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD AND SYSTEM FOR PURIFYING A CAUSTIC FLUID INCLUDING SULFUR</p> <p>[54] METHODE ET SYSTEME D'EPURATION D'UN FLUIDE CAUSTIQUE COMPRENANT DU SOUFRE</p> <p>[72] WINES, THOMAS H., US</p> <p>[71] PALL CORPORATION, US</p> <p>[22] 2023-04-18</p> <p>[41] 2023-11-10</p> <p>[30] US (17/740,821) 2022-05-10</p>
<p style="text-align: right; margin-top: -10px;"><b>[21] 3,193,698</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A62C 2/00 (2006.01) A62C 3/00 (2006.01) A62C 3/02 (2006.01) A62C 31/00 (2006.01) A62C 37/00 (2006.01) B64D 1/02 (2006.01)</p> <p>[25] EN</p> <p>[54] FIRE SUPPRESSANT SYSTEM</p> <p>[54] SYSTEME D'EXTINCTION DES INCENDIES</p> <p>[72] GROTH, ROBERT PAUL, US</p> <p>[71] SQUARE HEAD INC., US</p> <p>[22] 2023-03-21</p> <p>[41] 2023-11-05</p> <p>[30] US (17/737792) 2022-05-05</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,194,259</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A24F 40/40 (2020.01) A24D 1/20 (2020.01) A24F 40/90 (2020.01) A61M 15/06 (2006.01) B05B 17/00 (2006.01)</p> <p>[25] EN</p> <p>[54] ELECTRONIC CIGARETTE ATOMIZER</p> <p>[54] PULVERISATEUR DE CIGARETTE ELECTRONIQUE</p> <p>[72] CHEN, LIQIAN, CN</p> <p>[71] SHENZHEN IMPETUS TECHNOLOGY CO, LTD, CN</p> <p>[22] 2023-03-28</p> <p>[41] 2023-11-09</p> <p>[30] CN (2022223514739) 2022-05-09</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,197,610</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. B64C 25/60 (2006.01) B64F 5/60 (2017.01) F16F 9/00 (2006.01)</p> <p>[25] EN</p> <p>[54] TEMPERATURE COMPENSATED SHOCK STRUT VISUAL HEALTH INDICATOR SYSTEMS AND METHODS</p> <p>[54] SYSTEMES ET METHODES D'INDICATEUR VISUEL DE L'ETAT DE SANTE D'AMORTISSEUR COMPENSE EN TEMPERATURE</p> <p>[72] MENON, VISHAL SREEKUMAR, IN</p> <p>[72] BODKI, BASAVARAJ, IN</p> <p>[72] ALLEN, JASON BRADLEY, US</p> <p>[72] DITZLER, ADAM J., US</p> <p>[71] GOODRICH CORPORATION, US</p> <p>[22] 2023-04-20</p> <p>[41] 2023-11-06</p> <p>[30] US (17/848,164) 2022-06-23</p> <p>[30] IN (202241026395) 2022-05-06</p>
<p style="text-align: right; margin-top: -10px;"><b>[21] 3,193,989</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. B64D 31/04 (2006.01) B64C 13/04 (2006.01) F02D 11/02 (2006.01) G05G 1/04 (2006.01)</p> <p>[25] EN</p> <p>[54] THROTTLE CONTROL LEVERS</p> <p>[54] LEVIERS DE COMMANDE D'ACCELERATEUR</p> <p>[72] SERIEYS, JULIEN, FR</p> <p>[72] DELBRUEL, DIDIER, FR</p> <p>[71] RATIER-FIGEAC SAS, FR</p> <p>[22] 2023-03-23</p> <p>[41] 2023-11-11</p> <p>[30] EP (22305698.7) 2022-05-11</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,195,568</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. B65F 1/12 (2006.01) B07C 5/34 (2006.01) B65F 1/14 (2006.01) B65F 3/04 (2006.01) B65F 9/00 (2006.01) B65G 65/23 (2006.01)</p> <p>[25] EN</p> <p>[54] DEBRIS COLLECTION AND TRANSPORT CART AND METHOD OF USING SAME</p> <p>[54] CHARIOT DE COLLECTE ET DE TRANSPORT DE DEBRIS ET METHODE D'UTILISATION</p> <p>[72] BURNS, RICHARD S., US</p> <p>[72] BURNS, ALLEN T., US</p> <p>[71] RICHARD S. BURNS CO., INC., US</p> <p>[22] 2023-04-13</p> <p>[41] 2023-11-09</p> <p>[30] US (17/662,461) 2022-05-09</p>	

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<p style="text-align: right; margin-top: -10px;"><b>[21] 3,197,651</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. H04B 17/318 (2015.01) H04W 24/02 (2009.01) H04W 24/08 (2009.01) H04W 74/00 (2009.01) H04W 72/542 (2023.01) G01S 5/00 (2006.01)</p> <p>[25] EN</p> <p>[54] COMMUNICATION MONITORING SYSTEM</p> <p>[54] SYSTEME DE SURVEILLANCE DES COMMUNICATIONS</p> <p>[72] SWAR, PADAM DHOJ, US</p> <p>[72] CRAVEN, STEPHEN, US</p> <p>[71] TRANSPORTATION IP HOLDINGS, LLC, US</p> <p>[22] 2023-04-20</p> <p>[41] 2023-11-09</p> <p>[30] US (63/339,729) 2022-05-09</p> <p>[30] US (18/301,806) 2023-04-17</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,197,735</b></p> <p style="text-align: right;">[13] A1</p> <p>[25] EN</p> <p>[54] DIFFUSER RING WITH AIR MANIFOLD</p> <p>[54] BAGUE DE DIFFUSEUR ET COLLECTEUR D'AIR</p> <p>[72] TURCOTTE, HERVE, CA</p> <p>[72] PARKMAN, KENNETH, CA</p> <p>[72] MORENKO, OLEG, CA</p> <p>[72] GUGLIELMIN, NICHOLAS, CA</p> <p>[72] KISUN, GAVIN, CA</p> <p>[72] MISKIE, RYAN, CA</p> <p>[71] PRATT &amp; WHITNEY CANADA CORP., CA</p> <p>[22] 2023-04-21</p> <p>[41] 2023-11-05</p> <p>[30] US (17/662,143) 2022-05-05</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,197,952</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A61B 5/00 (2006.01) C12Q 1/00 (2006.01)</p> <p>[25] EN</p> <p>[54] LYME RELATED INFECTION INDICATOR</p> <p>[54] INDICATEUR D'INFECTION LIÉE À LA MALADIE DE LYME</p> <p>[72] PADULA, WILLIAM, US</p> <p>[71] PADULA, WILLIAM, US</p> <p>[22] 2023-04-26</p> <p>[41] 2023-11-06</p> <p>[30] US (63/338,954) 2022-05-06</p>
<p style="text-align: right; margin-top: -10px;"><b>[21] 3,197,673</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. G06N 20/00 (2019.01) G06F 21/56 (2013.01) H04L 9/40 (2022.01) G06F 18/214 (2023.01) G06F 18/24 (2023.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR MACHINE LEARNING BASED MALWARE DETECTION</p> <p>[54] SYSTEME ET METHODE POUR LA DETECTION DE LOGICIELS MALVEILLANTS FONDEE SUR L'APPRENTISSAGE AUTOMATIQUE</p> <p>[72] GRAVES, LAURA MICAH, CA</p> <p>[72] MANDAL, ANANDADIP, CA</p> <p>[71] BLACKBERRY LIMITED, CA</p> <p>[22] 2023-04-21</p> <p>[41] 2023-11-05</p> <p>[30] US (17/737,446) 2022-05-05</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,197,739</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. B64D 33/02 (2006.01) B64D 15/02 (2006.01) F02C 7/047 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD OF ANTI-ICING INLET GUIDE VANES</p> <p>[54] SYSTEME ET METHODE D'AUBAGES DIRECTEURS D'ENTREE D'ANTIGIVRANT</p> <p>[72] MENHEERE, DAVID, CA</p> <p>[71] PRATT &amp; WHITNEY CANADA CORP., CA</p> <p>[22] 2023-04-21</p> <p>[41] 2023-11-10</p> <p>[30] US (17/662,673) 2022-05-10</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,198,033</b></p> <p style="text-align: right;">[13] A1</p> <p>[25] EN</p> <p>[54] PERFORATING GUN ASSEMBLY HAVING DETONATOR INTERRUPTER</p> <p>[54] ASSEMBLAGE DE PERFORATEUR COMPRENANT UN INTERRUPEUR DE DETONATEUR</p> <p>[72] SULLIVAN, SHELBY L., US</p> <p>[71] XCONNECT, LLC, US</p> <p>[22] 2023-04-27</p> <p>[41] 2023-11-10</p> <p>[30] US (63/340,123) 2022-05-10</p> <p>[30] US (63/481,419) 2023-01-25</p> <p>[30] US (18/301,107) 2023-04-14</p>
<p style="text-align: right; margin-top: -10px;"><b>[21] 3,197,872</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. F16K 17/00 (2006.01) F16K 1/32 (2006.01) F16K 17/10 (2006.01) F16K 31/44 (2006.01)</p> <p>[25] EN</p> <p>[54] PISTON FOR ADJUSTABLE PRESSURE REDUCING VALVE AND AN ADJUSTABLE PRESSURE REDUCING VALVE</p> <p>[54] PISTON POUR UNE VANNE DE REDUCTEUR DE PRESSION, ET VANNE DE REDUCTEUR DE PRESSION</p> <p>[72] SAUNDERS, JEFFREY, CA</p> <p>[72] PALAMAR, WILLIAM, CA</p> <p>[71] PALAMAR INDUSTRIES INC., CA</p> <p>[22] 2023-04-25</p> <p>[41] 2023-11-09</p> <p>[30] US (63/339,718) 2022-05-09</p>	<p style="text-align: right; margin-top: -10px;"><b>[21] 3,198,076</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A61M 5/142 (2006.01) A61M 1/00 (2006.01) A61M 5/14 (2006.01) A61M 5/168 (2006.01) A61M 25/00 (2006.01)</p> <p>[25] EN</p> <p>[54] INFUSION SYSTEM AND CATHETER FOR SUCH AN INFUSION SYSTEM</p> <p>[54] SYSTEME DE PERFUSION ET CATHETER POUR UN TEL SYSTEME</p> <p>[72] SCHRODER, TOBIAS, DE</p> <p>[72] WEISS, ANDRE, DE</p> <p>[72] WILDHAGEN, JENS, DE</p> <p>[71] B. BRAUN MELSUNGEN AG, DE</p> <p>[22] 2023-04-27</p> <p>[41] 2023-11-05</p> <p>[30] DE (102022204439.8) 2022-05-05</p>	

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<p style="text-align: right;"><b>[21] 3,198,188</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A46D 3/04 (2006.01) A46B 3/00 (2006.01) A47L 17/00 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR WIRE BRISTLE TUFT ATTACHMENT</p> <p>[54] SYSTEMES ET METHODES POUR LA FIXATION D'UNE TOUFFE DE POILS METALLIQUES</p> <p>[72] ZEMEL, MARC, US</p> <p>[72] CHEN, JING QIU, CN</p> <p>[71] MR. BAR-B-Q PRODUCTS LLC, US</p> <p>[22] 2023-04-28</p> <p>[41] 2023-11-06</p> <p>[30] US (63/338,937) 2022-05-06</p>	<p style="text-align: right;"><b>[21] 3,198,251</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. H01F 41/074 (2016.01) H05K 3/10 (2006.01) H05K 3/28 (2006.01)</p> <p>[25] EN</p> <p>[54] APPARATUS AND PROCESS FOR CREATION OF DENSELY PACKED PRECISION ALIGNED LAYER WOUND ELECTROMAGNETIC COILS FOR ELECTRIC MOTORS, VOICE COILS, AND GALVANOMETERS</p> <p>[54] APPAREIL ET PROCEDE POUR LA CREATION DE BOBINES ELECTROMAGNETIQUES ENROULEES EN COUCHES ALIGNÉES AVEC PRÉCISION ET DENSEMENT POUR DES MOTEURS ÉLECTRIQUES, DES BOBINES MOBILES ET DES GALVANOMÈTRES</p> <p>[72] BROOKER, JEFFREY, US</p> <p>[72] PATTON, SHANE, US</p> <p>[72] BACKUS, STERLING, US</p> <p>[72] CANDILORO, CARL BRIAN, US</p> <p>[71] THORLABS MEASUREMENT SYSTEMS, INC., US</p> <p>[22] 2023-05-01</p> <p>[41] 2023-11-10</p> <p>[30] US (63/340,164) 2022-05-10</p>	<p style="text-align: right;"><b>[21] 3,198,388</b></p> <p style="text-align: right;">[13] A1</p> <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR CONTROLLING NOISE IN AIRCRAFT POWERED BY HYBRID-ELECTRIC GAS TURBINE ENGINES</p> <p>[54] SYSTEMES ET METHODES POUR CONTROLER LE BRUIT DANS UN AERONEF ALIMENTÉ PAR DES TURBINES A GAZ-ELECTRIQUES HYBRIDES</p> <p>[72] MESLIoui, SID-ALI, CA</p> <p>[71] PRATT &amp; WHITNEY CANADA CORP., CA</p> <p>[22] 2023-05-02</p> <p>[41] 2023-11-06</p> <p>[30] US (17/738,404) 2022-05-06</p>
<p style="text-align: right;"><b>[21] 3,198,193</b></p> <p style="text-align: right;">[13] A1</p> <p>[25] EN</p> <p>[54] INSPECTION SYSTEM FOR INNER BORE INSPECTIONS</p> <p>[54] SYSTEME D'INSPECTION D'ORIFICE INTERIEUR</p> <p>[72] LEE, SEOKWON, CA</p> <p>[71] GOODRICH CORPORATION, US</p> <p>[22] 2023-04-28</p> <p>[41] 2023-11-10</p> <p>[30] US (17/741,128) 2022-05-10</p>	<p style="text-align: right;"><b>[21] 3,198,361</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A47J 31/10 (2006.01) A47J 31/06 (2006.01) A47J 31/24 (2006.01) A47J 31/44 (2006.01) B65D 1/42 (2006.01) B65D 85/816 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM FOR PRODUCING A BEVERAGE</p> <p>[54] SYSTEME POUR LA PRODUCTION D'UN BREUVAGE</p> <p>[72] ZERBINI, TAZIO, IT</p> <p>[71] FLO - SOCIETA'PER AZIONI, IT</p> <p>[22] 2023-05-02</p> <p>[41] 2023-11-05</p> <p>[30] IT (102022000009248) 2022-05-05</p>	<p style="text-align: right;"><b>[21] 3,198,452</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. F24H 9/1832 (2022.01) F23L 1/00 (2006.01) F23L 17/00 (2006.01) F24H 1/41 (2006.01)</p> <p>[25] EN</p> <p>[54] WATER HEATER</p> <p>[54] CHAUFFE-EAU</p> <p>[72] KAKIZAKI, YUSUKE, JP</p> <p>[71] PALOMA CO., LTD., JP</p> <p>[22] 2023-05-02</p> <p>[41] 2023-11-09</p> <p>[30] JP (2022-077169) 2022-05-09</p>

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[21] **3,198,505**

[13] A1

- [51] Int.Cl. E02F 9/12 (2006.01) B66C  
23/84 (2006.01) E02F 3/36 (2006.01)  
E02F 9/20 (2006.01)
  - [25] EN
  - [54] HOUSE SWING SENSOR FOLLOWER PINION
  - [54] PIGNON ASSERVI DE CAPTEUR DE ROTATION DE CARTER
  - [72] ARMSTRONG, VINCENT A., US
  - [72] CALLAWAY, JOSHUA D., US
  - [72] BRIGHT, CHRISTOPHER E., US
  - [72] TERRY, BENJAMIN J., US
  - [71] CATERPILLAR, INC., US
  - [22] 2023-05-02
  - [41] 2023-11-11
  - [30] US (17/742,079) 2022-05-11
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[21] **3,198,543**

[13] A1

- [51] Int.Cl. E04H 12/18 (2006.01)
  - [25] EN
  - [54] TILT TOWER AND METHOD OF ASSEMBLY
  - [54] TOUR INCLINABLE ET METHODE D'ASSEMBLAGE
  - [72] ANDERSON, CHARLES A., US
  - [71] WILBUR L. ANDERSON, INC. D/B/A WESTERN TOWERS, US
  - [22] 2023-05-03
  - [41] 2023-11-05
  - [30] US (63/338,854) 2022-05-05
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[21] **3,198,561**

[13] A1

- [51] Int.Cl. A22C 11/00 (2006.01) A22C 11/02 (2006.01) A22C 11/12 (2006.01)
  - [25] EN
  - [54] PRODUCTION SYSTEM AND COUPLING UNIT FOR PRODUCING SAUSAGE-SHAPED PRODUCTS
  - [54] SYSTEME DE PRODUCTION ET UNITE DE COUPLAGE POUR LA PRODUCTION DE PRODUITS EN FORME DE SAUCISSE
  - [72] GALLARDO, ALFREDO LORENTE, DE
  - [72] BEYER, SILVIO, DE
  - [71] POLY-CLIP SYSTEM GMBH & CO. KG, DE
  - [22] 2023-05-03
  - [41] 2023-11-05
  - [30] EP (22171908.1) 2022-05-05
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[21] **3,198,568**

[13] A1

- [25] EN
  - [54] APPARATUS FOR REMOVING PARTICULATE MATTER FROM BLEED GAS
  - [54] APPAREIL D'ELIMINATION DE MATIERE PARTICULAIRE D'UN GAZ PRELEVE
  - [72] GIRARD, JULIEN, CA
  - [72] LAMARRE, SYLVAIN, CA
  - [72] LIU, XIAOLIU, CA
  - [72] KOO, DAVID, CA
  - [72] NGUYEN, KEVIN, CA
  - [72] MCPHERSON, LIAM, CA
  - [72] UNNIPPILLIL, ANNE MARIE, CA
  - [71] PRATT & WHITNEY CANADA CORP., CA
  - [22] 2023-05-03
  - [41] 2023-11-06
  - [30] US (17/738,363) 2022-05-06
- 

[21] **3,198,666**

[13] A1

- [25] EN
  - [54] APPARATUS FOR REMOVING PARTICULATE MATTER FROM BLEED GAS
  - [54] APPAREIL D'ELIMINATION DE MATIERE PARTICULAIRE D'UN GAZ PRELEVE
  - [72] GIRARD, JULIEN, CA
  - [72] LAMARRE, SYLVAIN, CA
  - [72] LIU, XIAOLIU, CA
  - [72] KOO, DAVID, CA
  - [72] NGUYEN, KEVIN, CA
  - [72] MCPHERSON, LIAM, CA
  - [72] UNNIPPILLIL, ANNE MARIE, CA
  - [71] PRATT & WHITNEY CANADA CORP., CA
  - [22] 2023-05-04
  - [41] 2023-11-06
  - [30] US (17/738,384) 2022-05-06
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[21] **3,198,916**

[13] A1

- [51] Int.Cl. E21B 47/00 (2012.01) E21B 47/095 (2012.01) E21B 33/04 (2006.01) E21B 47/01 (2012.01)
  - [25] EN
  - [54] LAND AND LOCK MONITORING SYSTEM FOR HANGER
  - [54] SYSTEME DE SURVEILLANCE DE LA POSE ET DE LA FIXATION POUR UN SUPPORT
  - [72] GRAY, CONOR, IE
  - [71] SCHLUMBERGER CANADA LIMITED, CA
  - [22] 2023-05-05
  - [41] 2023-11-06
  - [30] US (17/662372) 2022-05-06
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[21] **3,198,944**

[13] A1

- [51] Int.Cl. H01B 11/22 (2006.01) H01B 7/18 (2006.01)
- [25] EN
- [54] HYBRID DROP CABLE
- [54] CABLE DE DERIVATION HYBRIDE
- [72] LAVENNE, ALAIN, IT
- [72] GARCIA SAN EMETERIO, MARTA, IT
- [72] HERNANDEZ, GONZALO, IT
- [71] PRYSMIAN S.P.A., IT
- [22] 2023-05-04
- [41] 2023-11-09
- [30] IT (102022000009440) 2022-05-09

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<p>[21] <b>3,198,946</b> [13] A1</p> <p>[51] Int.Cl. C12N 9/00 (2006.01) A62D 3/02 (2007.01) C02F 3/00 (2006.01) C02F 3/34 (2006.01) C12N 1/20 (2006.01) C12N 9/02 (2006.01) C12N 9/04 (2006.01) C12N 9/08 (2006.01) C12N 9/16 (2006.01) C12N 9/20 (2006.01) C12N 9/88 (2006.01)</p> <p>[25] EN</p> <p>[54] ENZYME BOOSTER TECHNOLOGY FOR ADVANCED DECONTAMINATION OF PETROLEUM HYDROCARBONS</p> <p>[54] TECHNOLOGIE DE RENFORCATEUR D'ENZYME POUR LA DECONTAMINATION AVANCEE DES HYDROCARBURES DE PETROLE</p> <p>[72] SATINDER, KAUR BRAR, CA [72] SABA, MIRI, CA [72] SEYYED, MOHAMMADREZA DAVOODI, CA</p> <p>[71] SATINDER, KAUR BRAR, CA [71] SABA, MIRI, CA [71] SEYYED, MOHAMMADREZA DAVOODI, CA</p> <p>[22] 2023-05-05 [41] 2023-11-06 [30] US (63/339357) 2022-05-06</p>	<p>[21] <b>3,198,983</b> [13] A1</p> <p>[51] Int.Cl. B65F 3/04 (2006.01) B62D 27/06 (2006.01)</p> <p>[25] EN</p> <p>[54] QUICK DISCONNECT ATTACHMENT SYSTEM FOR VEHICLE</p> <p>[54] SYSTEME DE FIXATION A DEBRANCHEMENT RAPIDE POUR VEHICULE</p> <p>[72] GARY, LOGAN, US [72] GIERE, DAVID, US [72] HOOVER, VINCENT, US [72] KLEIN, ZACHARY, US [72] KAPPERS, JERROD, US [72] SCHWARTZ, LESLIE, US [72] SOLBERG, JACOB, US [72] WALLIN, JACOB, US [72] WENTE, DEREK, US [71] OSHKOSH CORPORATION, US [22] 2023-05-05 [41] 2023-11-06 [30] US (63/339,282) 2022-05-06 [30] US (18/143,178) 2023-05-04</p>	<p>[21] <b>3,198,992</b> [13] A1</p> <p>[51] Int.Cl. B65F 3/04 (2006.01) B65F 3/06 (2006.01)</p> <p>[25] EN</p> <p>[54] CARRY CAN DYNAMIC STABILIZATION</p> <p>[54] STABILISATION DYNAMIQUE DE CONTENEUR DE CHARGEMENT</p> <p>[72] GIERE, DAVID, US [72] NELSON, JOSEPH, US [72] BEHRENS, REID, US [71] OSHKOSH CORPORATION, US [22] 2023-05-05 [41] 2023-11-06 [30] US (63/339,190) 2022-05-06 [30] US (18/143,188) 2023-05-04</p>
<p>[21] <b>3,198,979</b> [13] A1</p> <p>[51] Int.Cl. B65F 3/00 (2006.01) B60L 3/12 (2006.01) B60R 16/03 (2006.01) B65F 3/04 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM ARCHITECTURE FOR REFUSE VEHICLE</p> <p>[54] ARCHITECTURE DE SYSTEME POUR VEHICULE A ORDURES</p> <p>[72] WEI, ZHENYI, US [72] THOMAS, BRIAN, US [71] OSHKOSH CORPORATION, US [22] 2023-05-05 [41] 2023-11-06 [30] US (63/339,166) 2022-05-06 [30] US (18/143,174) 2023-05-04</p>	<p>[21] <b>3,198,986</b> [13] A1</p> <p>[51] Int.Cl. A01K 29/00 (2006.01) A01K 27/00 (2006.01) A41D 27/20 (2006.01) A45F 3/00 (2006.01)</p> <p>[25] EN</p> <p>[54] REFUSE VEHICLE WITH FRAME RAIL SERVICE LIFT</p> <p>[54] VEHICULE A ORDURES COMPRENANT UN MECANISME DE LEVAGE DE SERVICE SUR POUTRE DE CHASSIS</p> <p>[72] WENTE, DEREK, US [72] WALLIN, JACOB, US [71] OSHKOSH CORPORATION, US [22] 2023-05-05 [41] 2023-11-05 [30] US (63/338,515) 2022-05-05 [30] US (18/143,183) 2023-05-04</p>	<p>[21] <b>3,198,997</b> [13] A1</p> <p>[51] Int.Cl. G07C 5/12 (2006.01) G06Q 10/063 (2023.01) B60L 3/12 (2006.01) B65F 3/00 (2006.01)</p> <p>[25] EN</p> <p>[54] VEHICLE BACKUP MONITORING AND REPORTING SYSTEM</p> <p>[54] SYSTEME DE SURVEILLANCE ET DE RAPPORT DE SECOURS POUR VEHICULE</p> <p>[72] THOMAS, BRIAN, US [71] OSHKOSH CORPORATION, US [22] 2023-05-05 [41] 2023-11-05 [30] US (63/338,600) 2022-05-05 [30] US (18/312,256) 2023-05-04</p>

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<p style="text-align: right;">[21] <b>3,198,999</b>  [13] A1</p> <p>[25] EN  [54] <b>BODY ASSEMBLY FOR A REFUSE VEHICLE</b>  [54] <b>ASSEMBLAGE DE CAISSE DE VEHICULE A ORDURES</b>  [72] CODEGA, ERIC, US  [72] KAPPERS, JERROD, US  [72] MEYER, JEFF, US  [72] SCHWARTZ, LES, US  [72] PATEL, UMANG, US  [72] WENTE, DEREK, US  [72] SCHAD, BRIAN, US  [71] OSHKOSH CORPORATION, US  [22] 2023-05-05  [41] 2023-11-05  [30] US (63/338,585) 2022-05-05  [30] US (18/312,152) 2023-05-04</p> <hr/> <p style="text-align: right;">[21] <b>3,199,004</b>  [13] A1</p> <p>[51] Int.Cl. B65F 3/06 (2006.01) B60R 16/08 (2006.01) B62D 21/00 (2006.01) B65F 3/00 (2006.01)  [25] EN  [54] <b>HYDRAULIC SYSTEM FOR REFUSE VEHICLES</b>  [54] <b>SYSTEME HYDRAULIQUE POUR VEHICULES A ORDURES</b>  [72] CODEGA, ERIC, US  [72] KAPPERS, JERROD, US  [72] MEYER, JEFF, US  [72] SCHWARTZ, LES, US  [72] PATEL, UMANG, US  [72] WENTE, DEREK, US  [72] SCHAD, BRIAN, US  [71] OSHKOSH CORPORATION, US  [22] 2023-05-05  [41] 2023-11-05  [30] US (63/338,528) 2022-05-05  [30] US (18/312,213) 2023-05-04</p> <hr/> <p style="text-align: right;">[21] <b>3,199,010</b>  [13] A1</p> <p>[25] EN  [54] <b>ELECTRIC CABLE FOR REFUSE VEHICLE WITH SERVICE LIFT</b>  [54] <b>CABLE ELECTRIQUE POUR UN VEHICULE A ORDURES COMPRENANT UN MECANISME ELEVATEUR DE SERVICE</b>  [72] WENTE, DEREK, US  [72] WALLIN, JACOB, US  [71] OSHKOSH CORPORATION, US  [22] 2023-05-05  [41] 2023-11-05  [30] US (63/338,514) 2022-05-05  [30] US (18/143,518) 2023-05-04</p>	<p style="text-align: right;">[21] <b>3,199,013</b>  [13] A1</p> <p>[25] EN  [54] <b>REFUSE TRUCK WITH HELICAL PUMP</b>  [54] <b>CAMION A ORDURES COMPRENANT UNE POMPE A VIS HELICOÏDALE</b>  [72] WENTE, DEREK, US  [72] WALLIN, JACOB, US  [71] OSHKOSH CORPORATION, US  [22] 2023-05-05  [41] 2023-11-05  [30] US (63/338,585) 2022-05-05  [30] US (18/143,526) 2023-05-04</p> <hr/> <p style="text-align: right;">[21] <b>3,199,017</b>  [13] A1</p> <p>[25] EN  [54] <b>PUMP CONTROL SYSTEM FOR A REFUSE VEHICLE</b>  [54] <b>SYSTEME DE COMMANDE DE POMPE POUR UN VEHICULE A ORDURES</b>  [72] WENTE, DEREK, US  [72] WALLIN, JACOB, US  [71] OSHKOSH CORPORATION, US  [22] 2023-05-05  [41] 2023-11-05  [30] US (63/338,589) 2022-05-05  [30] US (18/143,545) 2023-05-04</p> <hr/> <p style="text-align: right;">[21] <b>3,199,021</b>  [13] A1</p> <p>[51] Int.Cl. C13B 25/00 (2011.01) B01D 1/22 (2006.01) C13K 1/00 (2006.01) C13K 11/00 (2006.01)  [25] EN  [54] <b>SYSTEM AND PROCESS FOR CONCENTRATING BRIX IN A LIQUID</b>  [54] <b>SYSTEME ET PROCEDE POUR LA CONCENTRATION DE BRIX DANS UN LIQUIDE</b>  [72] CHABOT, VALLIER, CA  [72] O'FARRELL, STEVE, CA  [71] LES EQUIPEMENTS D'ERABLIERE C.D.L. INC., CA  [22] 2023-05-08  [41] 2023-11-08  [30] US (63/339,490) 2022-05-08</p>	<p style="text-align: right;">[21] <b>3,199,027</b>  [13] A1</p> <p>[25] EN  [54] <b>SYSTEM AND METHOD FOR EXTRACTING AN OBJECT OF INTEREST FROM A 3D POINT CLOUD</b>  [54] <b>SISTÈME ET MÉTHODE D'EXTRACTION D'UN OBJET D'INTERET D'UN NUAGE DE POINTS 3D</b>  [72] MAJEWSKI, YANN, CA  [72] ABUELWAFA, SHERIF ESMAT OMAR, CA  [72] WARSHE, WRUSHABH, CA  [72] JUPPE, LAURENT, CA  [72] MARTIN, BRYAN ALLEN, CA  [71] APPLICATIONS MOBILES OVERVIEW INC., CA  [22] 2023-05-05  [41] 2023-11-06  [30] EP (22172109.5) 2022-05-06</p> <hr/> <p style="text-align: right;">[21] <b>3,199,055</b>  [13] A1</p> <p>[25] EN  [54] <b>FOLDING BLADE FOR A CLEARING APPARATUS WITH A BLADE</b>  [54] <b>LAME REPLIABLE POUR UN APPAREIL DE NETTOYAGE COMPORTEANT UNE LAME</b>  [72] BLOCH, DENIS, CH  [71] ZAUGG AG EGGLIWIL, CH  [22] 2023-05-08  [41] 2023-11-10  [30] CH (CH 555/2022) 2022-05-10</p>
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**Demandes canadiennes mises à la disponibilité du public**  
**5 novembre 2023 au 11 novembre 2023**

<p style="text-align: right;"><b>[21] 3,199,058</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. F24F 11/65 (2018.01) F24F 11/30 (2018.01) F24F 11/70 (2018.01) F24F 7/003 (2021.01) F24F 8/10 (2021.01)</p> <p>[25] EN</p> <p>[54] HVAC SYSTEM WITH INDOOR AIR QUALITY MONITORING AND MITIGATION</p> <p>[54] SYSTEME CVC COMPRENANT UNE SURVEILLANCE DE LA QUALITE D'AIR A L'INTERIEUR ET UNE FONCTION DE CORRECTION</p> <p>[72] HINGORANI, SANJEEV, US</p> <p>[72] GREIST, HENRY, US</p> <p>[72] SMIRNOVA, ELENA, US</p> <p>[72] HREJSA, PETE, US</p> <p>[72] ABI-HABIB, EMILE, US</p> <p>[72] KANDE, DHISHAN, US</p> <p>[71] LENNOX INDUSTRIES INC., US</p> <p>[22] 2023-05-08</p> <p>[41] 2023-11-11</p> <p>[30] US (17/741,968) 2022-05-11</p> <hr/> <p style="text-align: right;"><b>[21] 3,199,069</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. B66B 5/00 (2006.01) B65G 43/00 (2006.01) B66B 17/00 (2006.01)</p> <p>[25] EN</p> <p>[54] BRAKE SYSTEM FOR USE IN SHAFT AND INCLINED CONVEYOR SYSTEMS</p> <p>[54] SYSTEME DE FREINAGE A UTILISER DANS LES SYSTEMES D'ARBRE ET DE CONVOYEUR INCLINE</p> <p>[72] STARKLOW, SERGEI, DE</p> <p>[72] AUGUST, SERGEJ, DE</p> <p>[71] SIEMAG TECBERG GMBH, DE</p> <p>[22] 2023-05-09</p> <p>[41] 2023-11-10</p> <p>[30] LU (LU102951) 2022-05-10</p> <hr/> <p style="text-align: right;"><b>[21] 3,199,089</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. F21V 14/02 (2006.01) F21V 19/02 (2006.01) F21V 21/15 (2006.01) F21V 21/26 (2006.01)</p> <p>[25] EN</p> <p>[54] FOUR HEAD SPOTLIGHT</p> <p>[54] PROJECTEUR A QUATRE TETES</p> <p>[72] DAHAN, MICHAEL, CA</p> <p>[71] LES PRODUITS SUNFORCE INC., CA</p> <p>[22] 2023-05-05</p> <p>[41] 2023-11-05</p> <p>[30] US (63338537) 2022-05-05</p>	<p style="text-align: right;"><b>[21] 3,199,101</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. C04B 28/00 (2006.01) C04B 14/18 (2006.01) C04B 24/26 (2006.01) C04B 38/08 (2006.01)</p> <p>[25] EN</p> <p>[54] NON-COMBUSTIBLE CEMENT BOARD</p> <p>[54] PANNEAU DE CIMENT INCOMBUSTIBLE</p> <p>[72] MATHIEU, MARIE-ANDREE, US</p> <p>[71] PERMABASE BUILDING PRODUCTS, LLC, US</p> <p>[22] 2023-05-09</p> <p>[41] 2023-11-09</p> <p>[30] US (63/339,565) 2022-05-09</p> <hr/> <p style="text-align: right;"><b>[21] 3,199,124</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A01K 5/00 (2006.01)</p> <p>[25] EN</p> <p>[54] PORTABLE PET FOOD CONTAINER</p> <p>[54] CONTENANT PORTATIF A ALIMENTS POUR ANIMAUX DE COMPAGNIE</p> <p>[72] YANG, HOYT, US</p> <p>[72] KUO, STEVEN HSING-CHANG, TW</p> <p>[71] VOILA POOCHE, US</p> <p>[22] 2023-05-09</p> <p>[41] 2023-11-09</p> <p>[30] US (17/662,522) 2022-05-09</p> <hr/> <p style="text-align: right;"><b>[21] 3,199,128</b></p> <p style="text-align: right;">[13] A1</p> <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR AUGMENTED REALITY VIDEO GENERATION</p> <p>[54] SYSTEMES ET METHODES POUR LA GENERATION VIDEO DE REALITE AUGMENTEE</p> <p>[72] EDWARDS, WARREN KEITH, US</p> <p>[71] ROVI GUIDES, INC., US</p> <p>[22] 2023-05-09</p> <p>[41] 2023-11-09</p> <p>[30] US (17/739851) 2022-05-09</p>	<p style="text-align: right;"><b>[21] 3,199,137</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. G06Q 50/34 (2012.01) G06F 21/10 (2013.01) G07F 17/32 (2006.01)</p> <p>[25] EN</p> <p>[54] METHODS AND SYSTEMS FOR CONTENT MANAGEMENT</p> <p>[54] METHODES ET SYSTEMES DE GESTION DE CONTENU</p> <p>[72] BROWN, GREGG, US</p> <p>[72] KURKOWSKI, STUART, US</p> <p>[71] COMCAST CABLE COMMUNICATIONS, LLC, US</p> <p>[22] 2023-05-09</p> <p>[41] 2023-11-10</p> <p>[30] US (17/741,154) 2022-05-10</p> <hr/> <p style="text-align: right;"><b>[21] 3,199,151</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A61K 35/55 (2015.01) A61K 31/195 (2006.01) A61K 47/26 (2006.01) A61P 5/14 (2006.01)</p> <p>[25] EN</p> <p>[54] THYROID MANUFACTURING PROCESS AND SPECIFICATIONS</p> <p>[54] PROCEDE DE FABRICATION DE THYROIDE ET FICHE TECHNIQUE</p> <p>[72] SANTINA VIANA, LAIA, ES</p> <p>[72] DALMAU CASTANARES, PERE, ES</p> <p>[72] CABANAS ROJO, JESUS, ES</p> <p>[71] BIOIBERICA, S.A.U., ES</p> <p>[22] 2023-05-09</p> <p>[41] 2023-11-11</p> <p>[30] EP (22382456.6) 2022-05-11</p> <hr/> <p style="text-align: right;"><b>[21] 3,199,155</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A01D 51/00 (2006.01) A01B 73/00 (2006.01) A01D 29/00 (2006.01) A01D 87/00 (2006.01)</p> <p>[25] EN</p> <p>[54] CONSTRUCTIVE ARRANGEMENT APPLIED TO GRAIN HARVESTING MACHINE</p> <p>[54] CONFIGURATION DE CONSTRUCTION APPLIQUEE A UN ENGIN DE RECOLTE DE CEREALES</p> <p>[72] CRESCIO, ALEXANDRE APARECIDO, BR</p> <p>[72] COLOMBO, IGHOR BUSNARDO, BR</p> <p>[72] LEITE, OSWALDO ARGEU, BR</p> <p>[71] INDUSTRIAS COLOMBO S.A., BR</p> <p>[22] 2023-05-09</p> <p>[41] 2023-11-09</p> <p>[30] BR (BR 102022009002-5) 2022-05-09</p>
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[21] 3,199,187  
[13] A1

- [25] EN  
[54] METHODS AND SYSTEMS TO IMPROVE CONTROL OF CONTENT ITEMS, CHANNELS, ACCOUNTS, SUBSCRIPTIONS, AND RELATED INFORMATION  
[54] METHODES ET SYSTEMES POUR AMELIORER LE CONTROLE DES ARTICLES DE CONTENU, DES CANAUX, DES COMPTES, DES ABONNEMENTS ET DES RENSEIGNEMENTS CONNEXES  
[72] EMMANUEL, DAINA, IN  
[72] PAREKH, JAYSHIL, IN  
[72] CHITRAVEL, POOVARASAN, IN  
[72] KALATHURU, HARSHAVARDHAN, IN  
[72] KRISHNAMOORTHI, SANTHIYA, IN  
[72] HARB, REDA, US  
[71] ROVI GUIDES, INC., US  
[22] 2023-05-10  
[41] 2023-11-10  
[30] US (17/741148) 2022-05-10
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[21] 3,199,209  
[13] A1

- [51] Int.Cl. A47C 27/04 (2006.01) B68G 9/00 (2006.01) F16F 1/06 (2006.01)  
[25] EN  
[54] MATTRESS ASSEMBLY INCLUDING COIL INNERSPRING UNITS, COIL INNERSPRING UNITS, AND PROCESSES FOR MAKING THE SAME  
[54] ASSEMBLAGE DE MATELAS COMPRENANT DES JEUX DE RESSORTS HELICOÏDAUX, JEUX DE RESSORTS HELICOÏDAUX ET PROCEDES DE FABRICATION  
[72] GROPPEL, STEPHEN M., US  
[72] STORCH, BEN, US  
[72] MASTROPAOLO, JEFFREY, US  
[72] PURANI, DISHANT, US  
[71] DREAMWELL, LTD., US  
[22] 2023-05-10  
[41] 2023-11-10  
[30] US (63/340,076) 2022-05-10

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[21] 3,199,216  
[13] A1

- [51] Int.Cl. B28B 1/24 (2006.01) B28B 1/087 (2006.01) B28B 7/28 (2006.01) B28B 13/02 (2006.01) C04B 41/65 (2006.01)  
[25] EN  
[54] MANUFACTURING ARCHITECTURAL BLOCKS WITH STONE-LIKE APPEARANCE  
[54] FABRICATION DE BLOCS ARCHITECTURAUX AYANT L'APPARENCE DE PIERRE  
[72] NIELSON, MAT, US  
[71] TUSCAN STONEWORX USA, LLC, US  
[22] 2023-05-10  
[41] 2023-11-10  
[30] US (63/340,342) 2022-05-10  
[30] US (18/144,591) 2023-05-08
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[21] 3,199,226  
[13] A1

- [51] Int.Cl. F16L 55/07 (2006.01) F16L 41/08 (2006.01) F16L 47/26 (2006.01) F16L 55/162 (2006.01) F16L 58/18 (2006.01)  
[25] EN  
[54] APPARATUS AND METHOD FOR TAPPING A VALVE OF A HOST PIPE LINED WITH A LINER  
[54] APPAREIL ET METHODE POUR TARAUDER UNE VANNE D'UN TUYAU HOTE CHEMISE  
[72] MCKAIGUE, SHAUN, CA  
[72] KOSSENIOUK, VADIM, CA  
[71] FER-PAL CONSTRUCTION LTD., CA  
[22] 2023-05-08  
[41] 2023-11-06  
[30] US (63/339,178) 2022-05-06
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[21] 3,199,283  
[13] A1

- [51] Int.Cl. G06F 16/95 (2019.01) G06Q 30/0241 (2023.01)  
[25] EN  
[54] SYSTEM AND METHOD FOR GENERATION OF ALPHANUMERIC CODES  
[54] SYSTEME ET METHODE DE GENERATION DE CODES ALPHANUMERIQUES  
[72] GHANBARI, DANIYAL, US  
[72] NGUYEN, DUY NHAN, US  
[72] RAHMANI, ABDOLKALEDGH, US  
[71] EYE INSIDE LLC, US  
[22] 2023-05-11  
[41] 2023-11-11  
[30] US (63/340,747) 2022-05-11
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[21] 3,199,288  
[13] A1

- [51] Int.Cl. G02B 3/00 (2006.01) H01L 33/58 (2010.01) G02B 13/18 (2006.01)  
[25] EN  
[54] OPTICAL LENS FOR UNIFORM LIGHT-DISTRIBUTION AND METHOD OF MANUFACTURING SAME  
[54] LENTILLE OPTIQUE POUR LA DISTRIBUTION UNIFORME DE LUMIERE ET METHODE DE FABRICATION  
[72] PAHLEVANINEZHAD, HAMID, CA  
[72] MOAVEN, ARIA, CA  
[72] PAHLEVANINEZHAD, MAJID, CA  
[72] SCHERWITZ, SAM, CA  
[71] 10644137 CANADA INC., CA  
[22] 2023-05-10  
[41] 2023-11-10  
[30] US (63/340,081) 2022-05-10
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[21] 3,199,298  
[13] A1

- [51] Int.Cl. E03C 1/181 (2019.01) B05B 12/32 (2018.01) A47K 1/00 (2006.01)  
[25] EN  
[54] FAUCET SHIELD SYSTEM  
[54] SYSTEME DE PROTECTION DE ROBINET  
[72] EMMERSON, SANDRA, CA  
[71] EMMERSON, SANDRA, CA  
[22] 2023-05-10  
[41] 2023-11-11  
[30] US (63/340,851) 2022-05-11

**Demandes canadiennes mises à la disponibilité du public**  
**5 novembre 2023 au 11 novembre 2023**

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[21] **3,199,358**  
 [13] A1

[25] EN  
 [54] NOVEL CAPACITANCE VARIATION MEASUREMENT MIXED SIGNAL IC BASED ON HIGH-FREQUENCY RESPONSE  
 [54] NOUVEAU CIRCUIT INTEGRÉ À SIGNAUX MIXTES DE MESURE DE VARIATION DE CAPACITÉ FONDÉ SUR UNE RÉPONSE HAUTE FREQUENCE  
 [72] MIRHASSANI, MITRA, CA  
 [72] ESMAEILI TAHERI, HAMIDREZA, CA  
 [71] UNIVERSITY OF WINDSOR, CA  
 [22] 2023-05-10  
 [41] 2023-11-10  
 [30] US (63/340165) 2022-05-10

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[21] **3,200,642**  
 [13] A1

[51] Int.Cl. B62D 33/08 (2006.01) B62D 21/09 (2006.01) B62D 65/04 (2006.01)  
 B65F 3/00 (2006.01) B65F 3/04 (2006.01)  
 [25] EN  
 [54] METHODS AND DEVICES FOR ASSEMBLING REFUSE VEHICLES  
 [54] METHODES ET DISPOSITIFS POUR ASSEMBLER DES VÉHICULES À ORDURES  
 [72] FRAAS, MARK, US  
 [72] PATIL, MALATESH, IN  
 [72] HUGHES, ERIC DALE, US  
 [71] THE HEIL CO., US  
 [22] 2023-05-09  
 [41] 2023-11-09  
 [30] US (63/339,773) 2022-05-09

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[21] **3,204,683**  
 [13] A1

[51] Int.Cl. E21B 43/08 (2006.01) B01D 39/10 (2006.01) E21B 43/12 (2006.01)  
 [25] EN  
 [54] SAND CONTROL APPARATUS AND METHODS FOR MANUFACTURING  
 [54] APPAREIL DE COMMANDE DE SABLE ET MÉTHODES DE FABRICATION  
 [72] LI, SHUSHENG, CN  
 [72] HUANG, CHUNHONG, CN  
 [71] ZHANG, ZHIBANG, CN  
 [71] ZHANG, ZHEN, CA  
 [22] 2023-06-22  
 [41] 2023-11-07  
 [30] CN (202221609238.0) 2022-06-24  
 [30] CN (202221599770) 2022-08-17

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[21] **3,205,918**  
 [13] A1

[51] Int.Cl. C12N 1/20 (2006.01) B09B 3/60 (2022.01) C02F 3/34 (2006.01)  
 [25] EN  
 [54] MURICAUDA OLEARIA AND USE, CULTURE METHOD AND METHOD FOR DEGRADING PLASTICS THEREOF  
 [54] MURICAUDA OLEARIA ET UTILISATION, MÉTHODE DE CULTURE ET MÉTHODE CONNEXE DE DÉTERIORATION DE PLASTIQUES  
 [72] MU, JUN, CN  
 [72] YAO, LINGDI, CN  
 [71] HAINAN TROPICAL OCEAN UNIVERSITY, CN  
 [22] 2023-07-07  
 [41] 2023-11-06  
 [30] CN (202310029488.X) 2023-01-09

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[21] **3,208,610**  
 [13] A1

[51] Int.Cl. F21V 21/26 (2006.01) F21L 4/02 (2006.01) F21L 4/04 (2006.01)  
 F21S 9/02 (2006.01)  
 [25] EN  
 [54] RADIAL LIGHT  
 [54] LUMIERE RADIALE  
 [72] PHILIP, GEORGE, US  
 [71] WALMART APOLLO, LLC, US  
 [22] 2023-08-07  
 [41] 2023-11-08  
 [30] US (17949421) 2022-09-21

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[21] **3,212,172**  
 [13] A1

[51] Int.Cl. F21S 10/04 (2006.01) F24D 15/00 (2022.01) H04N 5/76 (2006.01)  
 [25] EN  
 [54] FAUX FIREPLACE WITH SYNCHRONIZED FLAME CRACKLING  
 [54] FOYER ÉLECTRIQUE À CREPILEMENT DE FLAMME SYNCHRONISÉ  
 [72] NOLTON, JIM, US  
 [72] RICHARDSON, KRIS, US  
 [72] AGUIRRE, HARLAND, US  
 [72] FASZER, DAVID, US  
 [71] MODERN FLAMES, LLC, US  
 [22] 2023-09-12  
 [41] 2023-11-11  
 [30] US (17/978,436) 2022-11-01

# PCT Applications Entering the National Phase

## Demandes PCT entrant en phase nationale

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[21] 3,140,729  
[13] A1

[51] Int.Cl. A61M 5/28 (2006.01) A61J 1/14 (2006.01) A61M 5/31 (2006.01)  
[25] EN  
[54] MEDICAL HOLLOW CONTAINER, MEDICAL HOLLOW CONTAINER HAVING A CLOSURE CAP, METHOD FOR PRODUCING A MEDICAL HOLLOW CONTAINER, AND KIT  
[54] CONTENANT MEDICAL CREUX, CONTENANT MEDICAL CREUX AYANT UN CAPUCHON DE FERMETURE, METHODE DE FABRICATION D'UN CONTENANT MEDICAL CREUX ET TROUSSE  
[72] GLOCKER, JOACHIM, DE  
[71] VETTER PHARMA-FERTIGUNG GMBH & CO. KG, DE  
[85] 2021-11-16  
[86] 2020-05-26 (PCT/EP2020/064615)  
[87] (WO2020/239791)  
[30] DE (10 2019 207 970.9) 2019-05-29

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[21] 3,203,084  
[13] A1

[51] Int.Cl. B05B 11/02 (2006.01) B05C 17/01 (2006.01)  
[25] EN  
[54] SPRING-LOADED SPRAYING DEVICE  
[54] DISPOSITIF DE VAPORISATION A RESSORT  
[72] AUSTIN, PATRICK, CA  
[71] AUSTIN, PATRICK, CA  
[85] 2023-07-27  
[86] 2022-06-23 (PCT/CA2022/051010)  
[87] (3203084)

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[21] 3,204,843  
[13] A1

[51] Int.Cl. A63B 53/00 (2015.01) A63B 57/00 (2015.01)  
[25] EN  
[54] METHOD, APPARATUS, AND PROGRAM FOR CONTROLLING DISPLAY  
[54] METHODE, APPAREIL ET PROGRAMME POUR LE CONTROLE D'UN AFFICHAGE  
[72] KURACHI, NOBUHISA, JP  
[72] YASUDA, RYUICHI, JP  
[71] AMPLUS CO., LTD., JP  
[85] 2023-06-26  
[86] 2022-12-21 (PCT/JP2022/047052)  
[87] (3204843)  
[30] JP (2022-077045) 2022-05-09

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[21] 3,206,601  
[13] A1

[51] Int.Cl. F16M 11/42 (2006.01) B66C 23/62 (2006.01) F16B 7/04 (2006.01) F16B 7/20 (2006.01) F16B 9/00 (2006.01) F16M 11/04 (2006.01) F16M 11/10 (2006.01) F16M 11/20 (2006.01) F16M 11/24 (2006.01)  
[25] EN  
[54] MODULAR UTILITY SYSTEM  
[54] SYSTEME DE SERVICE MODULAIRE  
[72] LEBLANC, ALEXANDER, CA  
[71] ARCHI ENTERPRISES INC., CA  
[85] 2023-07-13  
[86] 2023-07-10 (PCT/CA2023/050925)  
[87] (3206601)  
[30] US (17/811,785) 2022-07-11

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[13] A1

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[25] EN  
[54] AUTOMATED BATTERY DISASSEMBLY SYSTEM  
[54] SYSTEME DE DESASSEMBLAGE DE BATTERIE AUTOMATISE  
[72] KIM, SEUNG HYUN, KR  
[71] KOREA ZINC CO., LTD., KR  
[85] 2023-09-11  
[86] 2023-08-07 (PCT/KR2023/011591)  
[87] (3211707)  
[30] KR (10-2023-0057900) 2023-05-03

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[21] 3,217,583  
[13] A1

[25] EN  
[54] PROCESS FOR PRODUCING A POROUS METALLIC OR CERAMIC COMPONENT AND A COMPONENT PRODUCED WITH THE PROCESS  
[54] PROCEDE DE PRODUCTION D'UN COMPOSANT METALLIQUE OU CERAMIQUE POREUX ET COMPOSANT PRODUIT AU MOYEN DU PROCEDE  
[72] FUSSEL, ALEXANDER, DE  
[72] STANDKE, GISELA, DE  
[72] HAASE, DANIELA, DE  
[72] ADLER, JORG, DE  
[72] WAAG, ULF, DE  
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[71] HOLLOMET GMBH, DE  
[85] 2023-11-01  
[86] 2022-05-10 (PCT/EP2022/062633)  
[87] (WO2022/238399)  
[30] DE (10 2021 204 741.6) 2021-05-11

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[13] A1

[25] EN  
**[54] POINT AND/OR MONEY BASED FANTASY GAMING**  
**[54] JEU DE FANTASY A BASE DE POINTS ET/OU D'ARGENT**  
[72] MILLER, KENNETH, US  
[71] CFPH, LLC, US  
[85] 2023-11-01  
[86] 2022-04-28 (PCT/US2022/071977)  
[87] (WO2022/236233)  
[30] US (17/306,861) 2021-05-03

[21] **3,217,631**  
[13] A1

[25] EN  
**[54] MYOPIA CONTROL CONTACT LENS**  
**[54] LENTILLE DE CONTACT POUR LA CORRECTION DE LA MYOPIE**  
[72] RAASCH, THOMAS, US  
[71] OHIO STATE INNOVATION FOUNDATION, US  
[85] 2023-11-02  
[86] 2022-05-06 (PCT/US2022/028120)  
[87] (WO2022/236087)  
[30] US (63/185,185) 2021-05-06  
[30] US (63/241,905) 2021-09-08

[21] **3,217,636**  
[13] A1

[25] EN  
**[54] AVIATION HELMET**  
**[54] CASQUE D'AVIATION**  
[72] HANUDEL, MATTHEW, US  
[71] GENTEX CORPORATION, US  
[85] 2023-11-02  
[86] 2022-05-27 (PCT/US2022/031260)  
[87] (3217636)  
[30] US (63/194,484) 2021-05-28

[21] **3,217,640**  
[13] A1

[25] EN  
**[54] INTELLIGENT SYSTEMS FOR OPTIMIZING STRETCH WRAPPER OPERATION AND STRETCH FILM USAGE**  
**[54] SYSTEMES INTELLIGENTS POUR OPTIMISER LE FONCTIONNEMENT D'UNE MACHINE D'EMBALLAGE SOUS FILM ETIRABLE ET UTILISATION D'UN FILM ETIRABLE**  
[72] NEKKANTI, SHANTARAM, US  
[71] ATLANTIC CORPORATION OF WILMINGTON, INC., US  
[85] 2023-11-02  
[86] 2022-05-06 (PCT/US2022/028041)  
[87] (WO2022/236032)  
[30] US (63/186,047) 2021-05-07

[21] **3,217,644**  
[13] A1

[25] EN  
**[54] AIR COLLECTING DEVICE FOR A DUST MEASURING SYSTEM**  
**[54] DISPOSITIF DE COLLECTE D'AIR POUR UN SYSTEME DE MESURE DE POUSSIÈRE**  
[72] DE VRIES, JAN, NL  
[71] ZEHNDER GROUP INTERNATIONAL AG, CH  
[85] 2023-11-02  
[86] 2022-06-02 (PCT/EP2022/065048)  
[87] (WO2022/268472)  
[30] CH (00721/21) 2021-06-22

[21] **3,217,646**  
[13] A1

[51] Int.Cl. A61M 39/12 (2006.01) A61M 39/10 (2006.01)  
[25] EN  
**[54] OVERMOLDED CONNECTORS FOR TUBING**  
**[54] CONNECTEURS SURMOULES POUR TUBULURE**  
[72] SUWITO, WANTJINARJO, US  
[72] FEITH, RAYMOND P., US  
[72] HUANG, KUOCHU COLIN, US  
[72] CANIZALES, ZACHARY EDWARD, US  
[71] CAREFUSION 303, INC., US  
[85] 2023-11-02  
[86] 2022-05-03 (PCT/US2022/027501)  
[87] (WO2022/235689)  
[30] US (63/184,528) 2021-05-05

[21] **3,217,647**  
[13] A1

[51] Int.Cl. C12Q 1/6886 (2018.01)  
[25] EN  
**[54] GASTRIC CANCER TUMOR MICROENVIRONMENTS**  
**[54] MICROENVIRONNEMENTS TUMORAUX DU CANCER DE L'ESTOMAC**  
[72] KUDRIASHOVA, OLGA, RU  
[72] SHAH, MANISH, US  
[72] KOTLOV, NIKITA, CY  
[72] MELIKHOVA, DARIA, AM  
[72] GUSAKOVA, MARIIA, RU  
[72] SAMARINA, NAIRA, RU  
[72] PODSVIROVA, SVETLANA, US  
[72] TYCHININ, DMITRII, RU  
[71] CORNELL UNIVERSITY, US  
[85] 2023-09-08  
[86] 2022-03-09 (PCT/US2022/019546)  
[87] (WO2022/192399)  
[30] US (63/158,818) 2021-03-09

[21] **3,217,648**  
[13] A1

[51] Int.Cl. G06F 3/0481 (2022.01) G06F 3/0484 (2022.01) A01K 9/00 (2006.01) A01K 29/00 (2006.01) G08C 17/02 (2006.01)  
[25] EN  
**[54] COMPUTERIZED SYSTEMS AND METHODS FOR LIVESTOCK MANAGEMENT**  
**[54] SYSTEMES ET PROCÉDÉS INFORMATISÉS DE GESTION DU BÉTAIL**  
[72] RETTEDAL, NICHOLAS P., US  
[72] MATHEUS, DASUKE, US  
[72] BOND, RANDALL, US  
[71] ST REPRODUCTIVE TECHNOLOGIES, LLC, US  
[85] 2023-10-23  
[86] 2022-04-13 (PCT/US2022/024656)  
[87] (WO2022/231847)  
[30] US (17/240,520) 2021-04-26

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[13] A1

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  - [25] EN
  - [54] AAVRH74 VECTORS FOR GENE THERAPY OF MUSCULAR DYSTROPHIES
  - [54] VECTEURS AAVRH74 DE THERAPIE GENIQUE DE DYSTROPHIES MUSCULAIRES
  - [72] SRIVASTAVA, ARUN, US
  - [72] QING, KEYUN, US
  - [72] BYRNE, BARRY JOHN, US
  - [71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US
  - [85] 2023-10-23
  - [86] 2022-04-22 (PCT/US2022/025916)
  - [87] (WO2022/226289)
  - [30] US (63/179,097) 2021-04-23
  - [30] US (63/327,410) 2022-04-05
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**[21] 3,217,650**  
[13] A1

- [51] Int.Cl. G06Q 10/08 (2023.01)
- [25] EN
- [54] COMPOSITIONS AND METHODS FOR CONTROLLING INSECTS
- [54] COMPOSITIONS ET PROCEDES DE LUTTE CONTRE LES INSECTES
- [72] FLEMING, CHRISTOPHER, US
- [71] SYNGENTA CROP PROTECTION AG, CH
- [85] 2023-11-02
- [86] 2022-05-20 (PCT/US2022/030188)
- [87] (WO2022/246153)
- [30] US (63/191,516) 2021-05-21

**[21] 3,217,651**  
[13] A1

- [51] Int.Cl. B65G 65/48 (2006.01) A24C 5/02 (2006.01) B65B 1/24 (2006.01) B65B 1/32 (2006.01) B65B 37/08 (2006.01) G01F 11/24 (2006.01)
- [25] EN
- [54] FILLING APPARATUS AND METHOD FOR AUTOMATICALLY FILLING CONTAINERS
- [54] APPAREIL DE REMPLISSAGE ET PROCEDE DE REMPLISSAGE AUTOMATIQUE
- [72] DRAGHETTI, FIORENZO, IT
- [71] I.M.A., INDUSTRIA MACCHINE AUTOMATICHE S.P.A., IT
- [85] 2023-11-02
- [86] 2022-05-20 (PCT/IT2022/050140)
- [87] (WO2022/244031)
- [30] IT (102021000013220) 2021-05-20

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[13] A1

- [51] Int.Cl. A61K 39/00 (2006.01) C12N 5/0783 (2010.01) C12N 15/113 (2010.01) C07K 14/54 (2006.01) C07K 14/725 (2006.01) C07K 14/74 (2006.01)
- [25] EN
- [54] CAR NKTS EXPRESSING ARTIFICIAL MICRO RNA-EMBEDDED shRNA FOR DOWNREGULATION OF MHC CLASS I & II EXPRESSION
- [54] NKT CAR EXPRIMANT UN ARNSH INTEGRÉ DANS UN MICRO-ARN ARTIFICIEL POUR LA REGULATION À LA BAISSE DE L'EXPRESSION DE CMH DE CLASSE I ET II
- [72] HECZEY, ANDRAS, US
- [72] LIU, BIN, US
- [72] METELITSA, LEONID S., US
- [71] BAYLOR COLLEGE OF MEDICINE, US
- [85] 2023-10-23
- [86] 2022-04-22 (PCT/US2022/026014)
- [87] (WO2022/226353)
- [30] US (63/179,104) 2021-04-23

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[13] A1

- [51] Int.Cl. A01N 31/14 (2006.01) A61K 8/34 (2006.01) A61K 8/36 (2006.01) A61K 8/365 (2006.01) A61K 31/085 (2006.01) A61K 31/19 (2006.01) A61K 31/20 (2006.01)
- [25] EN
- [54] ANTIMICROBIAL COMPOSITION
- [54] COMPOSITION ANTIMICROBIENNE
- [72] SHERRY, ALAN EDWARD, US
- [72] BALL, ANTHONY WAYNE, US
- [71] THE PROCTER & GAMBLE COMPANY, US
- [85] 2023-11-02
- [86] 2022-06-01 (PCT/US2022/031712)
- [87] (WO2022/256369)
- [30] EP (21177689.3) 2021-06-04
- [30] EP (22166642.3) 2022-04-05

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[13] A1

- [51] Int.Cl. A61K 9/50 (2006.01) A61K 9/127 (2006.01) A61K 38/39 (2006.01) A61K 48/00 (2006.01) C07K 14/76 (2006.01) C12N 15/88 (2006.01)
- [25] EN
- [54] EXTRACELLULAR VESICLES LOADED WITH BIOMOLECULES
- [54] VESICULES EXTRACELLULAIRES CHARGEES DE BIOMOLECULES
- [72] LEE, LY JAMES, US
- [72] SHI, JUNFENG, US
- [72] KWAK, KWANG JOO, US
- [72] LEE, ANDREW STEPHEN, US
- [72] YOU, YI, US
- [72] TIAN, YU, US
- [72] LAN, FENG, US
- [72] LU, WEN JING, US
- [71] SPOT BIOSYSTEMS LTD., US
- [85] 2023-10-23
- [86] 2022-04-22 (PCT/US2022/026015)
- [87] (WO2022/226354)
- [30] US (63/179,058) 2021-04-23

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[13] A1

[51] Int.Cl. A01N 43/36 (2006.01) A01N  
43/82 (2006.01)  
[25] EN  
[54] HERBICIDAL COMPOSITIONS  
[54] COMPOSITIONS HERBICIDES  
[72] WAILES, JEFFREY STEVEN, GB  
[72] HOLLOWAY, THOMAS EDWARD,  
GB  
[72] WATKINS, MELANIE JAYNE, GB  
[71] SYNGENTA CROP PROTECTION  
AG, CH  
[85] 2023-11-02  
[86] 2022-05-02 (PCT/EP2022/061733)  
[87] (WO2022/238166)  
[30] EP (21173152.6) 2021-05-10

**[21] 3,217,667**  
[13] A1

[25] EN  
[54] METHODS AND SYSTEMS FOR  
OBTAINING AND STORING WEB  
PAGES  
[54] PROCEDES ET SYSTEMES POUR  
OBTENIR ET STOCKER DES  
PAGES WEB  
[72] IDEMA, MAARTEN, NZ  
[71] XERO LIMITED, NZ  
[85] 2023-11-02  
[86] 2022-04-20 (PCT/NZ2022/050045)  
[87] (WO2022/235170)  
[30] AU (2021901343) 2021-05-05

**[21] 3,217,668**  
[13] A1

[51] Int.Cl. C12N 15/90 (2006.01)  
[25] EN  
[54] GENE THERAPY FOR THE  
TREATMENT OF HYPER-IGE  
SYNDROME (HIES) BY  
TARGETED GENE INTEGRATION  
[54] THERAPIE GENIQUE POUR LE  
TRAITEMENT DU SYNDROME  
HYPER-IGE (HIES) PAR  
INTEGRATION DE GENES  
CIBLES  
[72] CATHOMEN, TONI, DE  
[72] CORNU, TATJANA, DE  
[72] DETTMER-MONACO, VIVIANE, DE  
[72] HAAS, SIMONE, DE  
[72] ROSITZKA, JULIA, DE  
[72] DUCHATEAU, PHILIPPE, FR  
[72] JUILLERAT, ALEXANDRE, FR  
[71] ALBERT-LUDWIGS-UNIVERSITAT  
FREIBURG, DE  
[71] CELLECTIS S.A., FR  
[85] 2023-11-02  
[86] 2022-05-20 (PCT/EP2022/063762)  
[87] (WO2022/243529)  
[30] DK (PA202170257) 2021-05-20

**[21] 3,217,670**  
[13] A1

[51] Int.Cl. F02B 47/06 (2006.01) F02M  
25/12 (2006.01)  
[25] EN  
[54] INTERNAL COMBUSTION  
ENGINE WITH OXYGEN  
CONCENTRATING EQUIPMENT,  
METHOD, PROGRAM PRODUCT  
AND COMPUTER-READABLE  
MEDIUM FOR OPERATING  
INTERNAL COMBUSTION  
ENGINE WITH OXYGEN  
CONCENTRATING EQUIPMENT  
[54] MOTEUR A COMBUSTION  
INTERNE AYANT UN  
EQUIPEMENT DE  
CONCENTRATION D'OXYGENE,  
PROCEDE, PRODUIT-  
PROGRAMME ET SUPPORT  
LISIBLE PAR ORDINATEUR  
POUR FAIRE FONCTIONNER UN  
MOTEUR A COMBUSTION  
INTERNE AYANT UN  
EQUIPEMENT DE  
CONCENTRATION D'OXYGENE  
[72] KARPATY, STEPHEN, US  
[72] KARPATY, ISTVAN, HU  
[71] KARPATY, ISTVAN, HU  
[85] 2023-11-02  
[86] 2021-12-27 (PCT/HU2021/050074)  
[87] (WO2022/248896)  
[30] HU (P2100202) 2021-05-23

**[21] 3,217,672**  
[13] A1

[51] Int.Cl. C12Q 1/6809 (2018.01) C07K  
14/705 (2006.01)  
[25] EN  
[54] METHODS AND COMPOSITIONS  
FOR IPSC-DERIVED MICROGLIA  
[54] PROCEDES ET COMPOSITIONS  
POUR LA MICROGLIE DERIVEE  
D'IPSC  
[72] RAJESH, DEEPIKA, US  
[72] BAKSHY, KIRANMAYEE, US  
[72] MUNN, CHRISTIE, US  
[72] BURTON, SARAH, US  
[72] POON, WAYNE, US  
[72] HILCOVE, SIMON, US  
[71] FUJIFILM CELLULAR DYNAMICS,  
INC., US  
[71] FUJIFILM HOLDINGS AMERICA  
CORPORATION, US  
[85] 2023-11-02  
[86] 2022-05-05 (PCT/US2022/027842)  
[87] (WO2022/235911)  
[30] US (63/184,711) 2021-05-05

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**[21] 3,217,679**

[13] A1

[51] Int.Cl. G01T 1/10 (2006.01)

[25] EN

[54] METHOD AND SYSTEM FOR DETERMINING A RADIATION DOSE FROM POLARIZED SIGNALS

[54] PROCEDE ET SYSTEME POUR DETERMINER UNE DOSE DE RAYONNEMENT A PARTIR DE SIGNAUX POLARISES

[72] CLOUTIER, EMILY, CA

[72] BEAULIEU, LUC, CA

[72] ARCHAMBAULT, LOUIS, CA

[71] UNIVERSITE LAVAL, CA

[85] 2023-11-02

[86] 2022-05-03 (PCT/CA2022/050692)

[87] (WO2022/232926)

[30] US (63/183,403) 2021-05-03

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**[21] 3,217,682**

[13] A1

[51] Int.Cl. G06F 40/10 (2020.01) G06F 16/903 (2019.01) G06F 16/951 (2019.01) G06F 40/00 (2020.01)

[25] EN

[54] FACETED NAVIGATION

[54] NAVIGATION A FACETTE

[72] SIMHADRI, VENKATA GOUTHAM, US

[72] BALAJI, JANANI, US

[72] SINGARAYAR, JEYAPRAKASH, US

[72] STOLPOVSKAIA, OLGA, US

[72] SHAIKH, SUHAIL, US

[71] HOME DEPOT INTERNATIONAL, INC., US

[85] 2023-11-02

[86] 2022-05-09 (PCT/US2022/028258)

[87] (WO2022/236159)

[30] US (63/185,665) 2021-05-07

[30] US (63/193,582) 2021-05-26

[30] US (17/738,332) 2022-05-06

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**[21] 3,217,687**

[13] A1

[25] EN

[54] METHODS OF MINIMIZING NEUROTOXICITY ASSOCIATED WITH CHIMERIC ANTIGEN RECEPTOR (CAR) T CELL THERAPY

[54] PROCEDES DE REDUCTION AU MINIMUM DE LA NEUROTOXICITE ASSOCIEE A UNE THERAPIE CELLULAIRE DU RECEPTEUR DE L'ANTIGENE CHIMERE (CAR)

[72] AKRAM, MUHAMMAD S., US

[72] DE BRAGANCA, KEVIN C., US

[72] GOLDBERG, JENNA, US

[72] JACKSON, CAROLYN CHANG, US

[72] LEE, ERIN C., US

[72] LENDVAI, NIKOLETTA, US

[72] DE MONDELO, MARIA MARQUEZ, US

[72] OLYSLAGER, YUNSI, BE

[72] QIU, JUN, US

[72] ZUDAIRE UBANI, ENRIQUE, US

[72] XU, JEAN, US

[71] JANSSEN BIOTECH, INC., US

[71] LEGEND BIOTECH USA INC., US

[85] 2023-11-02

[86] 2022-05-10 (PCT/IB2022/054342)

[87] (WO2022/238901)

[30] US (63/186,872) 2021-05-11

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**[21] 3,217,690**

[13] A1

[51] Int.Cl. C07D 211/72 (2006.01) A61K 31/4166 (2006.01) C07D 401/06 (2006.01) C07D 401/14 (2006.01) C07D 405/12 (2006.01) C07D 413/06 (2006.01) C07D 417/06 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 495/04 (2006.01) C07D 498/04 (2006.01) C07D 498/18 (2006.01)

[25] EN

[54] NOVEL HETEROCYCLIC COMPOUNDS, COMPOSITIONS, METHODS OF PREPARATION AND USES THEREOF

[54] NOUVEAUX COMPOSES HETEROCYCLIQUES, COMPOSITIONS, PROCEDES DE PREPARATION ET UTILISATIONS DE CEUX-CI

[72] LINNANEN, TERO, FI

[72] HIRVELA, LEENA, FI

[72] ILLIKAINEN, KAISA, FI

[72] HAKOLA, MARJO, FI

[72] NIINIVEHMAS, SANNA, FI

[72] PENTIKAINEN, OLLI, FI

[72] STJERN SCHANTZ, CAMILLA, FI

[71] ORGANON R&D FINLAND LTD, FI

[85] 2023-11-02

[86] 2022-05-05 (PCT/FI2022/050301)

[87] (WO2022/234193)

[30] FI (20215545) 2021-05-07

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**[21] 3,217,692**

[13] A1

[51] Int.Cl. A23G 3/36 (2006.01) A23L 5/41 (2016.01) A23G 1/32 (2006.01)

[25] EN

[54] CONFECTIONERY PRODUCT

[54] PRODUIT DE CONFISERIE

[72] HOEKSEMA, RENE, NL

[72] LIZANO IGLESIAS, JOAQUIN ANTONIO, NL

[72] MARANGOZ, GUVEN, NL

[72] BROUNS, GLADYS, NL

[71] PERFETTI VAN MELLE S.P.A., IT

[85] 2023-11-02

[86] 2022-05-04 (PCT/IB2022/054094)

[87] (WO2022/234464)

[30] IT (102021000011609) 2021-05-06

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- [51] **Int.Cl. C07D 519/00 (2006.01)** A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)
- [25] EN
- [54] **NITROGEN-CONTAINING HETEROCYCLIC COMPOUND, METHOD FOR PREPARING SAME AND USE OF SAME**
- [54] **COMPOSE HETEROCYCLIQUE CONTENANT DE L'AZOTE, SON PROCEDE DE PREPARATION ET SON APPLICATION**
- [72] XU, ZUSHENG, CN
- [72] LOU, YANGTONG, CN
- [72] SHEN, JIAN, CN
- [72] XIE, TIEGANG, CN
- [72] SUN, QINGRUI, CN
- [72] CHEN, LI, CN
- [72] ZENG, KUN, CN
- [72] JIN, XIN, CN
- [71] SHANGHAI YINGLI PHARMACEUTICAL CO., LTD, CN
- [85] 2023-11-02
- [86] 2022-05-23 (PCT/CN2022/094364)
- [87] (WO2022/247770)
- [30] CN (202110567504.1) 2021-05-24
- [30] CN (202111153102.3) 2021-09-29
- [30] CN (202210017287.3) 2022-01-07

**[21] 3,217,695**  
[13] A1

- [51] **Int.Cl. G16H 40/67 (2018.01)**
- [25] EN
- [54] **SYSTEM AND METHOD FOR DATA INTERROGATION AND/OR REMOTE PROGRAMMING OF A MEDICAL DEVICE**
- [54] **SYSTEME ET PROCEDE D'INTERROGATION DE DONNEES ET/OU DE PROGRAMMATION A DISTANCE D'UN DISPOSITIF MEDICAL**
- [72] HORTON, JAMES, US
- [72] KRAITER, LAUREN, US
- [72] BERGSTROM, DEAN, US
- [72] JAROCH GONZALEZ, YARISA, US
- [72] FLAKNE, DAWN GAYLE, US
- [72] FRYER, ALAN, US
- [72] LOWRY, JAMES, US
- [72] GROSSKOPF, RAINER JOERG, US
- [71] BIOTRONIK SE & CO. KG, DE
- [85] 2023-11-02
- [86] 2022-05-25 (PCT/EP2022/064201)
- [87] (WO2022/253665)
- [30] US (63/196,875) 2021-06-04
- [30] EP (21183208.4) 2021-07-01

**[21] 3,217,699**  
[13] A1

- [25] EN
- [54] **NOVEL AAV SEROTYPES DERIVED FROM A LIBRARY SCREEN**
- [54] **NOUVEAUX SEROTYPES DE VAA DERIVES D'UN CRIBLAGE DE BIBLIOTHEQUE**
- [72] SPENCER, MELISSA J., US
- [72] EMAMI, MICHAEL R., US
- [72] PYLE, APRIL D., US
- [72] YOUNG, COURTNEY S., US
- [72] KOHN, DONALD B., US
- [71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
- [85] 2023-11-02
- [86] 2022-05-05 (PCT/US2022/027919)
- [87] (WO2022/235970)
- [30] US (63/185,194) 2021-05-06

**[21] 3,217,702**  
[13] A1

- [51] **Int.Cl. H02M 3/07 (2006.01)** H02M 3/139 (2006.01) H02M 3/157 (2006.01) H02M 3/155 (2006.01)
- [25] EN
- [54] **NOVEL NON-ISOLATED ZERO CURRENT AND VOLTAGE TRANSITION TECHNIQUE (ZCVTT)**
- [54] **NOUVEAU COURANT NUL NON ISOLE ET TECHNIQUE DE TRANSITION DE TENSION (ZCVTT)**
- [72] AHMADKHANLOU, FARZAD, US
- [72] DAHAKI, ALEN, US
- [72] NIA, REZA SARHADI, US
- [71] POWER SWITCHING LLC, US
- [85] 2023-11-02
- [86] 2022-06-07 (PCT/US2022/032451)
- [87] (WO2022/261059)
- [30] US (63/197,890) 2021-06-07

**[21] 3,217,703**  
[13] A1

- [51] **Int.Cl. G06T 7/136 (2017.01)**
- [25] EN
- [54] **METHOD OF QUANTIFYING AN EFFECTIVE VOLUME OF A MUSCLE**
- [54] **PROCEDE DE QUANTIFICATION D'UN VOLUME EFFECTIF D'UN MUSCLE**
- [72] DAHLQVIST LEINHARD, OLOF, SE
- [71] AMRA MEDICAL AB, SE
- [85] 2023-11-02
- [86] 2022-05-04 (PCT/EP2022/062032)
- [87] (WO2022/238211)
- [30] EP (21173319.1) 2021-05-11

**[21] 3,217,704**  
[13] A1

- [25] EN
- [54] **SIMULATION DEVICE FOR SIMULATING THE PRINTING OF A PRINTING PATTERN ON A PRINT MEDIUM AND A CORRESPONDING METHOD**
- [54]
- [72] FREUNDT, MARTIN, DE
- [71] MANZ AG, DE
- [85] 2023-11-02
- [86] 2022-04-28 (PCT/EP2022/061346)
- [87] (WO2022/233705)
- [30] DE (10 2021 111 846.8) 2021-05-06

**[21] 3,217,706**  
[13] A1

- [51] **Int.Cl. D06F 73/02 (2006.01)**
- [25] FR
- [54] **FOLDING CREASE-REMOVAL ENCLOSURE COMPRISING A MULTI-LAYER CURTAIN**
- [54] **ENCEINTE DE DEFROISSEMENT PLIABLE COMPRENANT UN RIDEAU MULTICOUCHES**
- [72] DJERORO, AMAR, FR
- [72] DURIF, PIERRE, FR
- [71] SEB S.A., FR
- [85] 2023-11-02
- [86] 2022-05-23 (PCT/EP2022/063935)
- [87] (WO2022/253620)
- [30] FR (FR2105815) 2021-06-02

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**[21] 3,217,708**  
[13] A1

[51] Int.Cl. D06F 73/02 (2006.01)  
 [25] FR  
**[54] FOLDING CREASE-REMOVAL ENCLOSURE INCLUDING A CURTAIN COMPRISING A TEXTILE WALL AND A FRAME**  
**[54] ENCEINTE DE DEFROISSAGE PLIABLE COMPRENANT UN RIDEAU AVEC UNE PAROI TEXTILE ET UNE ARMATURE**  
 [72] DJERORO, AMAR, FR  
 [72] WESSELS, NILS, FR  
 [72] MANGEANT, MORANE, FR  
 [71] SEB S.A., FR  
 [85] 2023-11-02  
 [86] 2022-05-23 (PCT/EP2022/063934)  
 [87] (WO2022/253619)  
 [30] FR (FR2105818) 2021-06-02

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**[21] 3,217,715**  
[13] A1

[51] Int.Cl. B29C 64/124 (2017.01) C08L 83/06 (2006.01)  
 [25] EN  
**[54] A METHOD FOR PRODUCING A THREE-DIMENSIONAL PRINTED ARTICLE**  
**[54] PROCEDE DE PRODUCTION D'UN ARTICLE IMPRIME TRIDIMENSIONNEL**  
 [72] FRANCES, JEAN-MARC, FR  
 [72] THIRIA, REMI, US  
 [72] KIHARA, MATTHEW, US  
 [72] PRICE, BRIAN, US  
 [71] ELKEM SILICONES USA CORP., US  
 [71] ELKEM SILICONES FRANCE SAS, FR  
 [85] 2023-11-02  
 [86] 2022-05-11 (PCT/US2022/028721)  
 [87] (WO2022/240955)  
 [30] US (63/187,635) 2021-05-12

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**[21] 3,217,716**  
[13] A1

[51] Int.Cl. C07K 16/30 (2006.01)  
 [25] EN  
**[54] ANTI-5T4 ANTIBODIES AND USES THEREOF**  
**[54] ANTICORPS ANTI-5T4 ET LEURS UTILISATIONS**  
 [72] BOGIN, OREN, IL  
 [72] DASSA, LIAT, IL  
 [71] IMMUNORIZON LTD., IL  
 [85] 2023-11-02  
 [86] 2022-05-02 (PCT/IL2022/050451)  
 [87] (WO2022/234570)  
 [30] US (63/183,636) 2021-05-04

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**[21] 3,217,718**  
[13] A1

[51] Int.Cl. B29C 64/124 (2017.01) C08L 83/06 (2006.01)  
 [25] EN  
**[54] A METHOD FOR PRODUCING A THREE-DIMENSIONAL PRINTED ARTICLE**  
**[54] PROCEDE DE PRODUCTION D'UN ARTICLE IMPRIME TRIDIMENSIONNEL**  
 [72] FRANCES, JEAN-MARC, FR  
 [72] THIRIA, REMI, US  
 [72] KIHARA, MATTHEW, US  
 [72] PRICE, BRIAN, US  
 [71] ELKEM SILICONES USA CORP., US  
 [71] ELKEM SILICONES FRANCE SAS, FR  
 [85] 2023-11-02  
 [86] 2022-05-11 (PCT/US2022/028721)  
 [87] (WO2022/240955)  
 [30] US (63/187,635) 2021-05-12

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**[21] 3,217,719**  
[13] A1

[51] Int.Cl. A61K 31/015 (2006.01) A61K 31/192 (2006.01) A61P 3/06 (2006.01) A61P 3/08 (2006.01)  
 [25] EN  
**[54] PHENOXYALKYLCARBOXYLIC ACID DERIVATIVES AND THEIR USE IN LOWERING TRIGLYCERIDE LEVELS**  
**[54] DERIVES D'ACIDE PHENOXYALKYLCARBOXYLIQUE ET LEUR UTILISATION POUR ABAISSER LES TAUX DE TRIGLYCERIDES**  
 [72] MATSUDA, KAZUKO, US  
 [72] OGURA, MASATSUNE, US  
 [71] MEDICINOVA, INC., US  
 [85] 2023-11-02  
 [86] 2022-05-26 (PCT/US2022/031090)  
 [87] (WO2022/251464)  
 [30] US (63/194,829) 2021-05-28

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**[21] 3,217,720**  
[13] A1

[51] Int.Cl. C07D 401/14 (2006.01) A61K 31/4184 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01)  
 [25] EN  
**[54] BENZIMIDAZOYL GLP-1 RECEPTOR AGONISTS, PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME, AND METHODS FOR THEIR USE**  
**[54] AGONISTES DU RECEPTEUR BENZIMIDAZOYL GLP-1, COMPOSITIONS PHARMACEUTIQUES LES COMPRENANT, ET LEURS PROCEDES D'UTILISATION**  
 [72] DU, XIAOHUI, US  
 [72] FUCINI, RAY, US  
 [72] RAN, XU, US  
 [72] YEH, CHIEN-HUNG, US  
 [72] ZHOU, XIANG, US  
 [72] SAKYA, SUBAS MAN, US  
 [72] WANG, XIANG, US  
 [72] KAWAI, HIROYUKI, US  
 [72] LEE, CRAIG, US  
 [72] GARAI, SUMANTA, US  
 [71] CARMOT THERAPEUTICS, INC., US  
 [85] 2023-11-02  
 [86] 2022-05-03 (PCT/US2022/027535)  
 [87] (WO2022/235717)  
 [30] US (63/183,612) 2021-05-03  
 [30] US (63/282,686) 2021-11-24

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**[21] 3,217,723**  
[13] A1

[25] EN  
**[54] METHODS OF SCREENING AND RELATED SYSTEMS**  
**[54] METHODES DE CRIBLAGE ET SYSTEMES ASSOCIES**  
 [72] JOHNSON, CHRIS, US  
 [72] QUIGLEY, IAN, US  
 [72] KHALIULLIN, RENAT, US  
 [72] DAHLEM, TIMOTHY, US  
 [72] ANDERSON, DANIEL, US  
 [71] RECURSION PHARMACEUTICALS, INC., US  
 [85] 2023-11-02  
 [86] 2022-06-09 (PCT/US2022/032823)  
 [87] (WO2022/261313)  
 [30] US (17/344,593) 2021-06-10

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**[21] 3,217,724**  
[13] A1

- [51] Int.Cl. A61B 10/00 (2006.01) A61F 5/44 (2006.01) A61F 5/451 (2006.01) A61M 1/00 (2006.01)
- [25] EN
- [54] URINE COLLECTION CONTAINER BAFFLE STRUCTURES, AND RELATED SYSTEMS AND METHODS
- [54] STRUCTURES DE DEFLECTEUR DE RECIPIENT DE COLLECTE D'URINE, ET SYSTEMES ET PROCEDES ASSOCIES
- [72] MARTIN, ADAM, US
- [72] ABBOTT, RICHARD, US
- [72] JARDINE, NICHOLAS, US
- [71] PUREWICK CORPORATION, US
- [85] 2023-11-02
- [86] 2022-05-24 (PCT/US2022/030685)
- [87] (WO2022/251184)
- [30] US (63/193,235) 2021-05-26

**[21] 3,217,725**  
[13] A1

- [51] Int.Cl. A23G 1/32 (2006.01) A21D 2/26 (2006.01) A23G 1/44 (2006.01) A23G 1/48 (2006.01)
- [25] EN
- [54] COCOA COMPOSITION
- [54] COMPOSITION DE CACAO
- [72] BAREY, VANESSA, FR
- [71] CARGILL, INCORPORATED, US
- [85] 2023-11-02
- [86] 2022-05-03 (PCT/US2022/072070)
- [87] (WO2022/236259)
- [30] EP (21171999.2) 2021-05-04

**[21] 3,217,726**  
[13] A1

- [25] EN
- [54] ANTI-NKG2D ANTIBODIES AND USES THEREOF
- [54] ANTICORPS ANTI-NKG2D ET LEURS UTILISATIONS
- [72] BOGIN, OREN, IL
- [72] DASSA, LIAT, IL
- [71] IMMUNORIZON LTD., IL
- [85] 2023-11-02
- [86] 2022-05-02 (PCT/IL2022/050453)
- [87] (WO2022/234571)
- [30] US (63/183,635) 2021-05-04

**[21] 3,217,727**  
[13] A1

- [51] Int.Cl. E21B 21/06 (2006.01)
- [25] EN
- [54] SLURRY REMOVAL SYSTEM
- [54] SYSTEME D'ELIMINATION DE BOUE
- [72] WAHLGREN, DANIEL, US
- [71] EDDY PUMP CORPORATION, US
- [85] 2023-11-02
- [86] 2022-02-28 (PCT/US2022/018184)
- [87] (WO2022/240466)
- [30] US (17/318,317) 2021-05-12

**[21] 3,217,728**  
[13] A1

- [25] EN
- [54] MICROORGANISM STRAIN AND METHOD FOR ANTIBIOTIC-FREE PLASMID-BASED FERMENTATION
- [54] SOUCHE DE MICRO-ORGANISME ET PROCEDE DE FERMENTATION A BASE DE PLASMIDE SANS ANTIBIOTIQUES
- [72] KRANZ, HARALD, DE
- [72] SCHMIDT, MARLEN, DE
- [72] FORSCHLE, MARION, DE
- [71] GEN-H GENETIC ENGINEERING HEIDELBERG GMBH, DE
- [85] 2023-11-02
- [86] 2022-05-19 (PCT/EP2022/063497)
- [87] (WO2022/243399)
- [30] EP (21174990.8) 2021-05-20

**[21] 3,217,729**  
[13] A1

- [51] Int.Cl. B08B 9/04 (2006.01) F28G 1/16 (2006.01) F28G 15/08 (2006.01)
- [25] EN
- [54] METHOD FOR MONITORING A TUBE SHEET OF A HEAT EXCHANGER
- [54] PROCEDE DE SURVEILLANCE D'UNE FEUILLE TUBULAIRE D'UN ECHANGEUR DE CHALEUR
- [72] DECOURCY, MICHAEL S., US
- [72] TRIPATHY, KISHLAY, US
- [71] ARKEMA INC., US
- [85] 2023-11-02
- [86] 2022-05-09 (PCT/US2022/028282)
- [87] (WO2022/240723)
- [30] US (63/186,931) 2021-05-11

**[21] 3,217,730**  
[13] A1

- [51] Int.Cl. B60T 13/14 (2006.01) B60T 13/74 (2006.01) B64C 25/44 (2006.01)
- [25] EN
- [54] AIRCRAFT BRAKING SYSTEM
- [54] SYSTEME DE FREINAGE D'AERONEF
- [72] LOVE, TOM, GB
- [72] EVANS, ROY, GB
- [72] SCHMIDT, ROBERT KYLE, CA
- [71] SAFRAN LANDING SYSTEMS CANADA INC, CA
- [71] SAFRAN LANDING SYSTEMS UK LTD, GB
- [85] 2023-11-02
- [86] 2022-04-22 (PCT/EP2022/060768)
- [87] (WO2022/233608)
- [30] EP (21172577.5) 2021-05-06

**[21] 3,217,733**  
[13] A1

- [51] Int.Cl. A61B 90/90 (2016.01) G06V 20/20 (2022.01)
- [25] FR
- [54] METHOD FOR IDENTIFYING MEDICAL DEVICES
- [54] PROCEDE D'IDENTIFICATION D'INSTRUMENTS MEDICAUX
- [72] WALTER, THOMAS, FR
- [72] TENAILLEAU, TIPHaine, FR
- [72] LAFOESTE, MARIE, FR
- [72] DAILLY, EMI, FR
- [71] VYGON, FR
- [85] 2023-11-02
- [86] 2022-05-16 (PCT/EP2022/063203)
- [87] (WO2022/243251)
- [30] FR (FR2105108) 2021-05-17

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[21] 3,217,734  
[13] A1

- [51] Int.Cl. C07K 14/62 (2006.01) A61P 3/10 (2006.01)
  - [25] EN
  - [54] A NOVEL ACYLATED INSULIN ANALOG
  - [54] NOUVEL ANALOGUE D'INSULINE ACYLE
  - [72] ZHENG, BAOYE, CN
  - [72] LEI, DAN, CN
  - [72] WANG, HAIGANG, CN
  - [72] LIN, SHUSHAN, CN
  - [72] ZHAN, ZHIZHU, CN
  - [72] WANG, QIAN, CN
  - [72] LIU, QIUYAN, CN
  - [72] HU, YANGLING, CN
  - [72] YANG, ZILAN, CN
  - [72] JIANG, YAN, CN
  - [72] LI, WENJIA, CN
  - [71] SUNSHINE LAKE PHARMA CO., LTD., CN
  - [85] 2023-11-02
  - [86] 2022-05-23 (PCT/CN2022/094392)
  - [87] (WO2022/247773)
  - [30] CN (202110570030.6) 2021-05-24
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[21] 3,217,735  
[13] A1

- [51] Int.Cl. A61K 31/5377 (2006.01) A61K 31/444 (2006.01)
- [25] EN
- [54] METHODS FOR TREATING A PULMONARY DISEASE WITH AN ALK-5 (TGF BETA R1) INHIBITOR
- [54] METHODES DE TRAITEMENT D'UNE MALADIE PULMONAIRE AVEC UN INHIBITEUR D'ALK-5 (TGF BETA R1)
- [72] BULLOUGH, DAVID A., US
- [72] FOULKES, JOHN GORDON, US
- [72] BEELEY, NIGEL R.A., US
- [72] CRYSTAL, ROGER, US
- [71] THIRONA BIO, INC., US
- [85] 2023-11-02
- [86] 2022-05-03 (PCT/US2022/027402)
- [87] (WO2022/235621)
- [30] US (63/183,393) 2021-05-03

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[21] 3,217,736  
[13] A1

- [25] EN
  - [54] MAIZE POLLEN STORAGE AND CARRIER
  - [54] STOCKAGE ET EXCIPIENT DE POLLEN DE MAIS
  - [72] DINWIDDIE, JAY AUSTIN, US
  - [72] HILL-SKINNER, SARAH, US
  - [72] CARTER, JARED, US
  - [71] SYNGENTA CROP PROTECTION AG, CH
  - [85] 2023-11-02
  - [86] 2022-06-15 (PCT/US2022/033575)
  - [87] (WO2022/271502)
  - [30] US (63/214,384) 2021-06-24
  - [30] US (63/289,299) 2021-12-14
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[21] 3,217,737  
[13] A1

- [51] Int.Cl. A61K 31/4045 (2006.01)
- [25] EN
- [54] SELECTIVE, PARTIAL, AND ARRESTIN-BIASED 5-HT2A AGONISTS WITH UTILITY IN VARIOUS DISORDERS
- [54] AGONISTES SELECTIFS, PARTIELS ET POLARISES DE 5-HT2A AVEC UTILITE DANS DIVERS TROUBLES

- [72] WALLACH, JASON, US
- [72] MCCORVY, JOHN, US
- [72] HALBERSTADT, ADAM, US
- [71] SAINT JOSEPH'S UNIVERSITY, US
- [71] THE MEDICAL COLLEGE OF WISCONSIN, INC., US
- [71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
- [85] 2023-11-02
- [86] 2022-05-11 (PCT/US2022/028797)
- [87] (WO2022/241006)
- [30] US (63/186,988) 2021-05-11

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[21] 3,217,738  
[13] A1

- [51] Int.Cl. C07K 16/30 (2006.01) C07K 14/47 (2006.01) C07K 14/725 (2006.01)
  - [25] EN
  - [54] ANTIGEN BINDING PROTEINS SPECIFICALLY BINDING PRAME
  - [54] PROTEINES DE LIAISON A L'ANTIGENE SE LIANT DE MANIERE SPECIFIQUE A PRAME
  - [72] PSZOLLA, GABRIELE, DE
  - [72] HOFMANN, MARTIN, DE
  - [72] HUTT, MEIKE, DE
  - [72] BUNK, SEBASTIAN, DE
  - [72] UNVERDORBEN, FELIX, DE
  - [72] SCHWOBEL, FRANK, DE
  - [72] MAURER, DOMINIK, DE
  - [72] JAWORSKI, MAIKE, DE
  - [72] WAGNER, CLAUDIA, DE
  - [72] SCHWORER, FLORIAN, DE
  - [72] SCHUSTER, HEIKO, DE
  - [71] IMMATICS BIOTECHNOLOGIES GMBH, DE
  - [85] 2023-11-02
  - [86] 2022-05-04 (PCT/EP2022/062017)
  - [87] (WO2022/233956)
  - [30] EP (21172351.5) 2021-05-05
  - [30] US (63/184,689) 2021-05-05
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[21] 3,217,739  
[13] A1

- [51] Int.Cl. C07K 16/28 (2006.01)
- [25] EN
- [54] BMA031 ANTIGEN BINDING POLYPEPTIDES
- [54] POLYPEPTIDES DE LIAISON A L'ANTIGENE BMA031
- [72] BUNK, SEBASTIAN, DE
- [72] HOFMANN, MARTIN, DE
- [72] UNVERDORBEN, FELIX, DE
- [71] IMMATICS BIOTECHNOLOGIES GMBH, DE
- [85] 2023-11-02
- [86] 2022-05-04 (PCT/EP2022/062018)
- [87] (WO2022/233957)
- [30] EP (21172352.3) 2021-05-05
- [30] US (63/184,698) 2021-05-05

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**[21] 3,217,740**

[13] A1

- [51] Int.Cl. A61M 5/158 (2006.01)
  - [25] EN
  - [54] NEEDLE ASSEMBLY FOR VISUALIZATION OF FLUID MOVEMENT
  - [54] ENSEMBLE AIGUILLE POUR LA VISUALISATION D'UN MOUVEMENT DE FLUIDE
  - [72] HARPER, BLAKE, US
  - [72] DIAMOND, JORDAN, US
  - [72] TRAN, HUY, US
  - [71] BECTON, DICKINSON AND COMPANY, US
  - [85] 2023-11-02
  - [86] 2022-04-28 (PCT/US2022/026814)
  - [87] (WO2022/250833)
  - [30] US (63/194,054) 2021-05-27
  - [30] US (17/731,119) 2022-04-27
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**[21] 3,217,742**

[13] A1

- [51] Int.Cl. F23R 3/28 (2006.01)
  - [25] EN
  - [54] FUEL INJECTOR AND FUEL NOZZLE FOR A GAS TURBINE, AND GAS TURBINE ENGINE INCLUDING THE NOZZLE
  - [54] INJECTEUR DE CARBURANT ET GICLEUR DE CARBURANT POUR UNE TURBINE A GAZ, ET MOTEUR A TURBINE A GAZ COMPRENANT LE GICLEUR
  - [72] PUCCI, EGIDIO, IT
  - [72] GORI, STEFANO, IT
  - [72] MELONI, ROBERTO, IT
  - [71] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT
  - [85] 2023-11-02
  - [86] 2022-05-10 (PCT/EP2022/025215)
  - [87] (WO2022/238011)
  - [30] IT (102021000012134) 2021-05-12
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**[21] 3,217,743**

[13] A1

- [51] Int.Cl. F01P 7/16 (2006.01)
  - [25] EN
  - [54] TEMPERATURE ADJUSTMENT DEVICE
  - [54] DISPOSITIF DE REGLAGE DE TEMPERATURE
  - [72] NISHIMURA, TETSUYA, JP
  - [72] NUMATA, MASAYUKI, JP
  - [71] NIPPON THERMOSTAT CO., LTD., JP
  - [85] 2023-11-02
  - [86] 2022-04-12 (PCT/JP2022/017598)
  - [87] (WO2022/239592)
  - [30] JP (2021-082649) 2021-05-14
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**[21] 3,217,745**

[13] A1

- [51] Int.Cl. A61K 47/62 (2017.01) A61P 37/04 (2006.01)
  - [25] EN
  - [54] STEROID ACID-BASED IMMUNOGEN ENHancers
  - [54] AMPLIFICATEURS IMMUNOGENES A BASE D'ACIDE STEROIDE
  - [72] BEAUDOIN, SIMON, CA
  - [71] DEFENCE THERAPEUTICS INC., CA
  - [85] 2023-11-02
  - [86] 2022-05-06 (PCT/CA2022/050714)
  - [87] (WO2022/232945)
  - [30] US (63/201,620) 2021-05-06
  - [30] US (63/362,494) 2022-04-05
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**[21] 3,217,746**

[13] A1

- [51] Int.Cl. A22B 5/16 (2006.01)
  - [25] EN
  - [54] METHOD AND SYSTEM FOR CONTAMINATION INTERVENTION
  - [54] PROCEDE ET SYSTEME D'INTERVENTION ANTI-CONTAMINATION
  - [72] BROWN, TYSON, US
  - [71] CARGILL, INCORPORATED, US
  - [85] 2023-11-02
  - [86] 2022-05-12 (PCT/US2022/028990)
  - [87] (WO2022/241115)
  - [30] US (63/187,694) 2021-05-12
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**[21] 3,217,747**

[13] A1

- [51] Int.Cl. F24D 3/16 (2006.01) F28D 1/053 (2006.01) F28F 1/14 (2006.01) F28F 1/16 (2006.01) F28F 1/22 (2006.01)
  - [25] EN
  - [54] CEILING RADIATOR HAVING A STAR-SHAPED CROSS-SECTION
  - [54] RADIATEUR DE PLAFOND A SECTION TRANSVERSALE EN FORME D'ETOILE
  - [72] FLAIG, HARTMUT, DE
  - [71] ALLFEST GMBH, DE
  - [85] 2023-11-02
  - [86] 2022-04-19 (PCT/EP2022/060299)
  - [87] (WO2022/238084)
  - [30] EP (21173863.8) 2021-05-14
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**[21] 3,217,748**

[13] A1

- [51] Int.Cl. C04B 28/04 (2006.01)
- [25] EN
- [54] METHOD AND SYSTEM TO PRODUCE A CONCRETE MATERIAL HAVING OPTIMIZED STRENGTH AND PARTICLE PACKING PROPERTIES
- [54] PROCEDE ET SYSTEME POUR PRODUIRE UN MATERIAU EN BETON PRESENTANT DES PROPRIETES OPTIMISEES DE RESISTANCE ET DE CONDITIONNEMENT DE PARTICULES
- [72] BAWRI, BINOD KUMAR, IN
- [72] BAWRI, SAROJ, IN
- [72] BAWRI, MALA, IN
- [72] KADABA, RAGHUNANDAN, IN
- [71] SAROD GREENBACK LLP, IN
- [85] 2023-11-02
- [86] 2021-06-14 (PCT/IB2021/055201)
- [87] (WO2022/234328)
- [30] IN (202131020255) 2021-05-03

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**[21] 3,217,749**

[13] A1

- [51] Int.Cl. A61K 47/42 (2017.01)
- [25] EN
- [54] IRGD-ANALOGS AND RELATED THERAPEUTIC METHODS**
- [54] ANALOGUES D'IRGD ET PROCEDES THERAPEUTIQUES ASSOCIES**
- [72] JARVELAINEN, HARRI, US
- [72] RUOSLAHTI, ERKKI, US
- [71] CEND THERAPEUTICS, INC., US
- [85] 2023-11-02
- [86] 2022-05-04 (PCT/US2022/027735)
- [87] (WO2022/235852)
- [30] US (63/184,198) 2021-05-04
- [30] US (63/329,321) 2022-04-08

**[21] 3,217,750**

[13] A1

- [51] Int.Cl. C07K 14/70 (2006.01)
- [25] EN
- [54] KCNV2 VARIANTS AND THEIR USE**
- [54] VARIANTES DE KCNV2 ET LEUR UTILISATION**
- [72] SULTANOV, SHAMIL, GR
- [72] SULTANOVA, MARIA, CY
- [72] CARVALHO, DR. LIVIA, AU
- [72] HUNT, DAVID, AU
- [72] RASHWAN, RABAB, AU
- [72] VOLCHKOV, PAVEL Y, RU
- [71] ARTEMA THERAPEUTICS, INC., US
- [85] 2023-11-02
- [86] 2022-05-19 (PCT/US2022/030073)
- [87] (WO2022/246089)
- [30] US (63/191,106) 2021-05-20

**[21] 3,217,751**

[13] A1

- [51] Int.Cl. C09D 7/80 (2018.01)
- [25] EN
- [54] IN-LINE PROCESS FOR PREPARING PAINT**
- [54] PROCEDE EN LIGNE POUR LA PREPARATION DE PEINTURE**
- [72] NUNGESSION, EDWIN A., US
- [72] MIRABELLI, MARIO G. L., US
- [72] HARSH, PHILIP R., US
- [72] BOHLING, JAMES C., US
- [71] ROHM AND HAAS COMPANY, US
- [85] 2023-11-02
- [86] 2022-05-17 (PCT/US2022/029610)
- [87] (WO2022/241327)
- [30] US (63/188,616) 2021-05-14

**[21] 3,217,752**

[13] A1

- [51] Int.Cl. A61M 39/22 (2006.01)
- [25] EN
- [54] CATHETER ASSEMBLY HAVING A SEPTUM**
- [54] ENSEMBLE CATHETER AYANT UN SEPTUM**
- [72] SCHERICH, MEGAN, US
- [72] LACKEY, JOHN, US
- [72] BLANCHARD, CURTIS H., US
- [72] LACKEY, BREANNA, US
- [72] MA, YIPING, US
- [72] STALEY, SHAUN, US
- [72] BURKHOLZ, JONATHAN KARL, US
- [72] LAUER, SHAUN, US
- [72] SOLOSKO, THOMAS, US
- [71] BECTON, DICKINSON AND COMPANY, US
- [85] 2023-11-02
- [86] 2022-05-06 (PCT/US2022/028088)
- [87] (WO2022/250931)
- [30] US (63/192,977) 2021-05-25
- [30] US (17/737,416) 2022-05-05

**[21] 3,217,753**

[13] A1

- [51] Int.Cl. F28D 7/16 (2006.01)
- [25] EN
- [54] HEAT GENERATION CELL, HEAT GENERATION DEVICE, AND HEAT UTILIZATION SYSTEM**
- [54] CELLULE DE GENERATION DE CHALEUR, DISPOSITIF DE GENERATION DE CHALEUR ET SYSTEME D'UTILISATION DE CHALEUR**
- [72] SATO, RYOKI, JP
- [72] IWAMURA, YASUHIRO, JP
- [72] ITO, TAKEHIKO, JP
- [72] YOSHINO, HIDEKI, JP
- [71] CLEAN PLANET INC., JP
- [85] 2023-11-02
- [86] 2022-04-26 (PCT/JP2022/018982)
- [87] (WO2022/234800)
- [30] JP (2021-079384) 2021-05-07

**[21] 3,217,754**

[13] A1

- [51] Int.Cl. G06Q 40/04 (2012.01)
- [25] EN
- [54] USER INTERFACE FUNCTIONALITY AND ENHANCEMENTS FOR COMMODITY PRICING ARRANGEMENTS**
- [54] FONCTIONNALITE D'INTERFACE UTILISATEUR ET AMELIORATIONS POUR DES AGENCEMENTS DE TARIFICATION DE COMMODITES**
- [72] KLOCK, JEFF, US
- [72] PELLINGER, DAVID MATTHEW, US
- [71] CARGILL, INCORPORATED, US
- [85] 2023-11-02
- [86] 2022-05-11 (PCT/US2022/028700)
- [87] (WO2022/240940)
- [30] US (63/188,538) 2021-05-14

**[21] 3,217,755**

[13] A1

- [51] Int.Cl. C06B 47/14 (2006.01)
- [25] EN
- [54] COMPOSITION FOR FORMING A HYDROGEN PEROXIDE BASED EMULSION EXPLOSIVE**
- [54] COMPOSITION DE FORMATION D'UN EXPLOSIF A EMULSION A BASE DE PEROXYDE D'HYDROGENE**
- [72] GUSTAVSSON, THOMAS, SE
- [72] HAKLAND, ROBERT, SE
- [72] NILSSON, STEFAN, SE
- [71] HYPEX BIO EXPLOSIVES TECHNOLOGY AB, SE
- [85] 2023-11-02
- [86] 2022-05-04 (PCT/EP2022/062007)
- [87] (WO2022/233948)
- [30] EP (21172313.5) 2021-05-05

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[21] **3,217,756**  
[13] A1

[51] Int.Cl. C07K 14/47 (2006.01)  
[25] EN  
[54] PEPTIDE-FC FUSIONS FOR TREATING AMYLOID DISORDERS  
[54] FUSIONS DE PEPTIDE-FC POUR LE TRAITEMENT DE TROUBLES AMYLOIDES  
[72] WALL, JONATHAN S., US  
[72] FOSTER, JAMES S., US  
[72] PONS, JAUME, US  
[71] UNIVERSITY OF TENNESSEE RESEARCH FOUNDATION, US  
[71] ATTRALUS, INC., US  
[85] 2023-11-02  
[86] 2022-05-04 (PCT/US2022/072112)  
[87] (WO2022/236286)  
[30] US (63/184,682) 2021-05-05  
[30] US (63/186,605) 2021-05-10

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[21] **3,217,757**  
[13] A1

[25] EN  
[54] COMPOSITION FOR NK CELL CRYOPRESERVATION, AND CRYOPRESERVATION FORMULATION COMPRISING SAME  
[54] COMPOSITION DE CRYOCONSERVATION DE CELLULES NK, ET FORMULATION DE CRYOCONSERVATION LA COMPRENANT  
[72] JANG, MYUNG HO, KR  
[72] HONG, CHUN-PYO, KR  
[72] KO, DONGWOO, KR  
[72] KU, JONGBEOM, KR  
[72] KIM, DONG-HWAN, KR  
[71] GI CELL, INC., KR  
[85] 2023-11-02  
[86] 2022-05-13 (PCT/KR2022/006901)  
[87] (WO2022/240240)  
[30] KR (10-2021-0062683) 2021-05-14

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[21] **3,217,759**  
[13] A1

[51] Int.Cl. G06Q 30/02 (2023.01)  
[25] EN  
[54] DYNAMIC CONTENT GENERATION AND SELECTION FOR COMMODITY TRANSACTION USER INTERFACES  
[54] GENERATION ET SELECTION DE CONTENU DYNAMIQUE POUR INTERFACES UTILISATEUR DE TRANSACTIONS DE MARCHANDISES  
[72] BOFENKAMP, AMY, US  
[72] BYINGTON, KAYLA, US  
[72] KLOCK, JEFF, US  
[72] PELLINGER, DAVID MATTHEW, US  
[72] SKALKO, ZAC PATRICK, US  
[72] VANDER WIEL, KURT, US  
[71] CARGILL, INCORPORATED, US  
[85] 2023-11-02  
[86] 2022-05-11 (PCT/US2022/028696)  
[87] (WO2022/240937)  
[30] US (63/188,534) 2021-05-14

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[21] **3,217,760**  
[13] A1

[51] Int.Cl. A61K 9/20 (2006.01) A61P 25/06 (2006.01)  
[25] EN  
[54] TASTE MASKED COMPOSITIONS OF 2,4,6-TRIFLUORO-N-[6-(1-METHYL-PIPERIDINE-4-CARBONYL)-PYRIDIN-2-YL]-BENZAMIDE HEMISUCCINATE, AND ORALLY DISINTEGRATING TABLET COMPRISING THE SAME  
[54] COMPOSITIONS A GOUT MASQUE D'HEMISUCCINATE DE 2,4,6-TRIFLUORO-N-[6-(1-METHYL-PIPERIDINE-4-CARBONYL)-PYRIDIN-2-YL]-BENZAMIDE ET COMPRIME A DESINTEGRATION ORALE LES COMPRENANT

[72] ALLGEIER, MATTHEW CARL, US  
[72] BUTTERBAUGH, ADAM SHANE, US  
[72] TERNIK, ROBERT LOUIS, US  
[71] ELI LILLY AND COMPANY, US  
[85] 2023-11-02  
[86] 2022-05-06 (PCT/US2022/028003)  
[87] (WO2022/236004)  
[30] US (63/185,554) 2021-05-07

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[21] **3,217,761**  
[13] A1

[51] Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6874 (2018.01) C12Q 1/6886 (2018.01) C12Q 1/68 (2018.01)  
[25] EN  
[54] COMPOSITIONS COMPRISING NULLOMERS AND METHODS OF USING THE SAME FOR CANCER DETECTION AND DIAGNOSIS  
[54] COMPOSITIONS COMPRENANT DES NULLOMERES ET LEURS PROCEDES D'UTILISATION POUR LA DETECTION ET LE DIAGNOSTIC DU CANCER  
[72] AHITUV, NADAV, US  
[72] YIZHAR-BARNEA, OFER, US  
[72] GEORGAKOPOULOS-SOARES, ILIAS, US  
[72] MOURATIDIS, IOANNIS, BE  
[72] HEMBERG, MARTIN, US  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[71] WELLCOME SANGER INSTITUTE, GB  
[85] 2023-11-02  
[86] 2022-05-03 (PCT/US2022/027536)  
[87] (WO2022/235718)  
[30] US (63/183,610) 2021-05-03  
[30] US (63/230,584) 2021-08-06

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[21] **3,217,762**  
[13] A1

[51] Int.Cl. B60L 7/28 (2006.01) B60T 1/06 (2006.01) B64C 25/44 (2006.01) H02K 49/04 (2006.01)  
[25] FR  
[54] EDDY CURRENT MAGNETIC BRAKING DEVICE, BRAKED VEHICLE WHEEL AND AIRCRAFT LANDING GEAR EQUIPPED WITH SUCH A WHEEL  
[54] DISPOSITIF DE FREINAGE MAGNETIQUE A COURANT DE FOUCAULT, ROUE FREINEE DE VEHICULE ET ATERRISSEUR D'AERONEF EQUIPE D'UNE TELLE ROUE  
[72] NGUYEN, DUY-MINH, FR  
[72] DURAND, GUILLAUME, FR  
[72] KLIM, GRAEME, FR  
[71] SAFRAN LANDING SYSTEMS, FR  
[85] 2023-11-02  
[86] 2022-05-03 (PCT/EP2022/061840)  
[87] (WO2022/233863)  
[30] FR (FR2104657) 2021-05-03

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**[21] 3,217,763**

[13] A1

- [51] Int.Cl. C07D 487/06 (2006.01)
  - [25] EN
  - [54] TRICYCLIC UBIQUITIN SPECIFIC PROTEASE 1 INHIBITOR AND USE THEREOF
  - [54] INHIBITEUR DE PROTEASE 1 SPECIFIQUE DE L'UBIQUITINE TRICYCLIQUE ET SON UTILISATION
  - [72] LIU, BIN, CN
  - [72] CHEN, BO, CN
  - [71] SHANDONG XUANZHU PHARMA CO., LTD., CN
  - [85] 2023-11-02
  - [86] 2022-04-28 (PCT/CN2022/089956)
  - [87] (WO2022/233263)
  - [30] CN (202110486972.6) 2021-05-03
  - [30] CN (202110806606.4) 2021-07-16
  - [30] CN (202111514025.X) 2021-12-13
  - [30] CN (202210062340.1) 2022-01-19
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**[21] 3,217,764**

[13] A1

- [51] Int.Cl. A23L 33/10 (2016.01) A61K 31/12 (2006.01) A61K 31/44 (2006.01) A61K 45/06 (2006.01) A61P 1/16 (2006.01)
- [25] EN
- [54] METHOD FOR TREATING NON-ALCOHOLIC STEATOHEPATITIS THROUGH CO-ADMINISTRATION OF CURCUMIN DERIVATIVE AND TGF-B RECEPTOR INHIBITOR
- [54] METHODE DE TRAITEMENT DE LA STEATOHEPATITE NON ALCOOLIQUE PAR LA CO-ADMINISTRATION D'UN DERIVE DE LA CURCUMINE ET D'UN INHIBITEUR DU RECEPTEUR DE TGF-B
- [72] CHUNG, CHOON HEE, KR
- [72] LEE, EUN SOO, KR
- [72] HA, KYUNG BONG, KR
- [72] LEE, DONG KEON, KR
- [72] PARK, NA WON, KR
- [72] JO, SU HO, KR
- [71] UNIVERSITY INDUSTRY FOUNDATION, YONSEI UNIVERSITY WONJU CAMPUS, KR
- [85] 2023-11-02
- [86] 2022-05-13 (PCT/KR2022/006873)
- [87] (WO2022/270760)
- [30] KR (10-2021-0082417) 2021-06-24
- [30] KR (10-2021-0160931) 2021-11-22

**[21] 3,217,765**

[13] A1

- [51] Int.Cl. B64C 25/42 (2006.01) B60L 7/28 (2006.01) B60T 1/06 (2006.01) B60T 13/58 (2006.01) B64C 25/44 (2006.01) H02K 49/04 (2006.01)
  - [25] FR
  - [54] EDDY CURRENT MAGNETIC BRAKING DEVICE, BRAKED VEHICLE WHEEL AND AIRCRAFT LANDING GEAR EQUIPPED WITH SUCH A WHEEL
  - [54] DISPOSITIF DE FREINAGE MAGNETIQUE A COURANT DE FOUCAULT, ROUE FREINEE DE VEHICULE ET ATTERRISEUR D'AERONEF EQUIPE D'UNE TELLE ROUE
  - [72] NGUYEN, DUY-MINH, FR
  - [72] DURAND, GUILLAUME, FR
  - [72] KLIM, GRAEME, FR
  - [71] SAFRAN LANDING SYSTEMS, FR
  - [85] 2023-11-02
  - [86] 2022-05-03 (PCT/EP2022/061842)
  - [87] (WO2022/233865)
  - [30] FR (FR2104656) 2021-05-03
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**[21] 3,217,766**

[13] A1

- [51] Int.Cl. A47D 9/02 (2006.01) A47D 13/10 (2006.01)
- [25] EN
- [54] INFANT CARE APPARATUS
- [54] APPAREIL DE SOINS POUR NOURRISSON
- [72] JUCHNIEWICZ, RICHARD, US
- [71] THORLEY INDUSTRIES, LLC (DBA 4MOMS), US
- [85] 2023-11-02
- [86] 2022-05-05 (PCT/US2022/072144)
- [87] (WO2022/236309)
- [30] US (63/184,625) 2021-05-05
- [30] US (17/662,024) 2022-05-04

**[21] 3,217,767**

[13] A1

- [51] Int.Cl. F02C 3/22 (2006.01)
  - [25] EN
  - [54] HEAT TRANSFER SYSTEMS FOR CRITICAL POWER APPLICATIONS
  - [54] SYSTEMES DE TRANSFERT DE CHALEUR DESTINES A DES APPLICATIONS A PUISSANCE CRITIQUE
  - [72] KOERNER, MATTHEW DOUGLAS, US
  - [72] MCDANIEL, BRANDON, US
  - [72] MUSILLI, JR. JOHN A., US
  - [71] CAELI, LLC, US
  - [85] 2023-11-02
  - [86] 2022-05-06 (PCT/US2022/072171)
  - [87] (WO2022/236321)
  - [30] US (63/201,631) 2021-05-06
  - [30] US (17/662,184) 2022-05-05
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**[21] 3,217,769**

[13] A1

- [51] Int.Cl. A24F 40/60 (2020.01) A24F 40/46 (2020.01) A24F 40/50 (2020.01) A24F 40/90 (2020.01)
- [25] EN
- [54] AEROSOL GENERATING DEVICE CAPABLE OF PROVIDING NOTIFICATION AND OPERATING METHOD THEREOF
- [54] DISPOSITIF DE GENERATION D'AEROSOL CAPABLE DE FOURNIR UNE NOTIFICATION ET SON PROCEDE DE FONCTIONNEMENT
- [72] KIM, YONG HWAN, KR
- [72] KIM, DONG SUNG, KR
- [72] LIM, HUN IL, KR
- [72] JANG, SEOK SU, KR
- [71] KT&G CORPORATION, KR
- [85] 2023-11-02
- [86] 2022-12-01 (PCT/KR2022/019365)
- [87] (WO2023/113314)
- [30] KR (10-2021-0182206) 2021-12-17

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[21] **3,217,770**  
[13] A1

- [51] Int.Cl. B65D 83/22 (2006.01) B65D 83/20 (2006.01)
  - [25] EN
  - [54] AN AEROSOL CONTAINER CONTAINING FOOD PRODUCT
  - [54] RECIPIENT AEROSOL CONTENANT UN PRODUIT ALIMENTAIRE
  - [72] PITTEVILS, PIERO LEOPOLD M., NL
  - [72] DUMON, ANNICK ALBERTINE ALFONS, NL
  - [72] GOSWAMI, KAUSTUBH ASHOK, NL
  - [71] FRIESLANDCAMPINA NEDERLAND B.V., NL
  - [85] 2023-11-02
  - [86] 2022-05-25 (PCT/NL2022/050285)
  - [87] (WO2022/250534)
  - [30] EP (21176213.3) 2021-05-27
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[21] **3,217,771**  
[13] A1

- [25] EN
  - [54] PAINTING-AGENT CONDUCTING DEVICE, SPRAY GUN, AND ASSEMBLY
  - [54] DISPOSITIF D'ACHEMINEMENT D'AGENT DE PEINTURE, PISTOLET DE PULVERISATION ET ENSEMBLE
  - [72] RUDA, MARTIN, DE
  - [71] MARTIN RUDA 1. UG (HAFTUNGSBESCHRANKT), DE
  - [85] 2023-11-02
  - [86] 2022-04-01 (PCT/DE2022/000034)
  - [87] (WO2022/237926)
  - [30] DE (10 2021 002 522.9) 2021-05-14
  - [30] DE (10 2021 002 831.7) 2021-06-02
  - [30] DE (10 2021 005 362.1) 2021-10-28
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[21] **3,217,772**  
[13] A1

- [51] Int.Cl. E04D 3/08 (2006.01)
  - [25] EN
  - [54] ROOF CONSTRUCTION
  - [54] STRUCTURE DE TOIT
  - [72] IMFELD, JOST, CH
  - [72] FLAIG, RAPHAEL, CH
  - [72] STENZ, VICTOR, CH
  - [71] STOBAG AG, CH
  - [85] 2023-11-02
  - [86] 2022-05-03 (PCT/EP2022/061784)
  - [87] (WO2022/233829)
  - [30] DE (10 2021 111 373.3) 2021-05-03
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[21] **3,217,773**  
[13] A1

- [51] Int.Cl. A61P 31/14 (2006.01)
  - [25] EN
  - [54] SELF-ASSEMBLING VIRAL SPIKE-EABR NANOPARTICLES
  - [54] NANOParticules virales AUTO-ASSEMBLEES DE TYPE SPIKE-EABR
  - [72] HOFFMANN, MAGNUS AG., US
  - [72] BJORKMAN, PAMELA J., US
  - [71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US
  - [85] 2023-11-02
  - [86] 2022-06-08 (PCT/US2022/032702)
  - [87] (WO2022/261230)
  - [30] US (63/208,889) 2021-06-09
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[21] **3,217,774**  
[13] A1

- [51] Int.Cl. G06F 9/54 (2006.01)
  - [25] EN
  - [54] VECTOR PROCESSING EMPLOYING BUFFER SUMMARY GROUPS
  - [54] TRAITEMENT DE VECTEURS UTILISANT DES GROUPES RECAPITULATIFS DE MEMOIRE TAMPON
  - [72] DRIEVER, PETER, US
  - [72] SURMAN, DAVID, US
  - [72] SZWED, PETER, US
  - [72] PIECHOWSKI, ANDREW, US
  - [72] GOSS, STEVEN NEIL, US
  - [71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
  - [85] 2023-11-02
  - [86] 2022-07-25 (PCT/EP2022/070793)
  - [87] (WO2023/006666)
  - [30] US (17/388,154) 2021-07-29
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[21] **3,217,775**  
[13] A1

- [51] Int.Cl. C07C 45/65 (2006.01) A61K 8/35 (2006.01) C07C 49/755 (2006.01)
  - [25] EN
  - [54] INDANONE AND TETRALONE-KETO OR HYDROXYL OXIMES AS CANCER THERAPEUTICS
  - [54] INDANONE ET TETRALONE-CETO OU HYDROXYLE OXIMES EN TANT QU'AGENTS THERAPEUTIQUES CONTRE LE CANCER
  - [72] MCHARDY, STANTON, US
  - [72] TIDWELL, MICHAEL W., US
  - [72] BRENNER, ANDREW J., US
  - [72] VADLAMUDI, RATNA K., US
  - [71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
  - [85] 2023-11-02
  - [86] 2022-04-28 (PCT/US2022/026846)
  - [87] (WO2022/235492)
  - [30] US (63/183,764) 2021-05-04
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[21] **3,217,776**  
[13] A1

- [51] Int.Cl. C25C 3/06 (2006.01) C25B 1/33 (2021.01)
- [25] EN
- [54] METHOD FOR PRODUCING METALLIC ALUMINUM AND POLYSILICON WITH HIGH-SILICON ALUMINUM-CONTAINING RESOURCE
- [54] PROCEDE DE PRODUCTION D'ALUMINIUM METALLIQUE ET DE SILICIUM POLYCRYSTALLIN AU MOYEN D'UNE RESSOURCE CONTENANT DE L'ALUMINIUM A TENEUR ELEVEE EN SILICIUM
- [72] ZHAO, ZHONGWEI, CN
- [71] ZHENGZHOU UNIVERSITY, CN
- [85] 2023-11-02
- [86] 2022-04-21 (PCT/CN2022/088123)
- [87] (WO2022/237490)
- [30] CN (202110514374.5) 2021-05-08

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[21] 3,217,777  
[13] A1

- [51] Int.Cl. B64C 25/36 (2006.01) B64C 25/42 (2006.01) B64C 25/58 (2006.01)
  - [25] EN
  - [54] REINFORCED TORQUE TUBES
  - [54] TUBES DE COUPLE RENFORCES
  - [72] EVRARD, JOHN G., US
  - [72] BURKHALTER, ANDREW, US
  - [71] MEGGITT AIRCRAFT BRAKING SYSTEMS CORPORATION, US
  - [85] 2023-11-02
  - [86] 2022-05-04 (PCT/US2022/027732)
  - [87] (WO2022/235849)
  - [30] US (63/184,024) 2021-05-04
  - [30] US (17/736,872) 2022-05-04
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[13] A1

- [51] Int.Cl. A23L 33/105 (2016.01) A24B 15/18 (2006.01) A24B 15/24 (2006.01) A61K 31/05 (2006.01) C07C 39/19 (2006.01) C07C 39/23 (2006.01) C07D 311/80 (2006.01)
- [25] EN
- [54] HASHISH PRODUCT AND INDUSTRIAL PROCESS FOR MAKING SAME USING PRETREATED STARTING MATERIALS
- [54] PRODUIT DE HASCHICH ET SON PROCEDE INDUSTRIEL DE FABRICATION A L'AIDE DE MATIERES PREMIERES PRETRAITEES
- [72] SAVARD, JAMIE, CA
- [71] HEXO OPERATIONS INC., CA
- [85] 2023-11-02
- [86] 2022-05-05 (PCT/CA2022/050708)
- [87] (WO2022/232940)
- [30] US (63/185,192) 2021-05-06

[21] 3,217,779  
[13] A1

- [51] Int.Cl. C06B 47/14 (2006.01)
  - [25] EN
  - [54] COMPOSITION FOR FORMING AN EXPLOSIVE COMPRISING AN EMULSION OF HYDROGEN PEROXIDE AND AN OIL TYPE FUEL
  - [54] COMPOSITION DE FORMATION D'UN EXPLOSIF COMPRENANT UNE EMULSION DE PEROXYDE D'HYDROGÈNE ET UN CARBURANT DE TYPE HUILE
  - [72] GUSTAVSSON, THOMAS, SE
  - [72] HAKLAND, ROBERT, SE
  - [72] NILSSON, STEFAN, SE
  - [71] HYPEX BIO EXPLOSIVES TECHNOLOGY AB, SE
  - [85] 2023-11-02
  - [86] 2022-05-04 (PCT/EP2022/062011)
  - [87] (WO2022/233952)
  - [30] EP (21172315.0) 2021-05-05
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[13] A1

- [51] Int.Cl. A61K 31/4178 (2006.01) C07D 233/72 (2006.01) C07D 307/64 (2006.01)
- [25] EN
- [54] SAFE ADMINISTRATION OF MMP-12 INHIBITOR
- [54] ADMINISTRATION SURE D'INHIBITEUR DE MMP-12
- [72] CHIEN, BENJAMIN, US
- [72] LI, YUHUA, US
- [71] FORESEE PHARMACEUTICALS CO., LTD., TW
- [85] 2023-11-02
- [86] 2022-06-07 (PCT/US2022/072790)
- [87] (WO2022/261624)
- [30] US (63/208,273) 2021-06-08

[21] 3,217,781  
[13] A1

- [25] EN
  - [54] INFILL PARTICLE FOR ARTIFICIAL TURF, METHOD OF PRODUCING SUCH INFILL PARTICLE AND USE OF SUCH INFILL PARTICLE
  - [54] PARTICULE DE REMPLISSAGE POUR GAZON ARTIFICIEL, PROCEDE DE PRODUCTION D'UNE TELLE PARTICULE DE REMPLISSAGE ET UTILISATION DE LADITE PARTICULE DE REMPLISSAGE
  - [72] GILJE, EIMUND, NO
  - [72] RAVNAS, ASLE, NO
  - [72] RAVNAS, METTE, NO
  - [72] MALDAL, TRYGVE (DECEASED), XX
  - [71] GOE-IP AS, NO
  - [85] 2023-11-02
  - [86] 2022-05-09 (PCT/EP2022/062502)
  - [87] (WO2022/234142)
  - [30] GB (2106534.7) 2021-05-07
  - [30] GB (2111672.8) 2021-08-13
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[21] 3,217,782  
[13] A1

- [25] EN
- [54] STEEL SHEET WITH A TWO-LAYER CRYSTALLIZATION STRUCTURE, AND METHOD FOR PRODUCING SUCH A STEEL SHEET
- [54] TOLE D'ACIER PRÉSENTANT UNE STRUCTURE DE CRISTALLISATION À DEUX COUCHES ET PROCEDE DE PRODUCTION D'UNE TELLE TOLE D'ACIER
- [72] PORZGEN, LAURA, DE
- [72] KAUP, DR. BURKHARD, DE
- [72] UNTIEDT, CLEMENS, DE
- [72] DUTZ, ANDREAS, DE
- [71] THYSSENKRUPP RASSELSTEIN GMBH, DE
- [85] 2023-11-02
- [86] 2022-11-03 (PCT/EP2022/080635)
- [87] (WO2023/083679)
- [30] DE (10 2021 129 191.7) 2021-11-10

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- [51] Int.Cl. A22B 3/04 (2006.01) A22B 3/06 (2006.01) A22B 3/08 (2006.01) A61D 7/04 (2006.01)
  - [25] EN
  - [54] ONSITE CO2 GENERATION FOR POULTRY STUNNING
  - [54] GENERATION SUR SITE DE CO2 POUR ETOURDISSEMENT DE VOLAILLE
  - [72] NEWMAN, MICHAEL D., US
  - [72] EBELING, CHRISTOPHER T., US
  - [71] MESSER INDUSTRIES USA, INC., US
  - [85] 2023-11-02
  - [86] 2022-05-02 (PCT/US2022/027239)
  - [87] (WO2022/235547)
  - [30] US (63/183,866) 2021-05-04
  - [30] US (17/732,583) 2022-04-29
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[13] A1

- [51] Int.Cl. E21B 47/113 (2012.01) C09K 8/035 (2006.01) C09K 8/528 (2006.01) C09K 8/588 (2006.01)
- [25] EN
- [54] TAGGED POLYMER AND METHOD
- [54] POLYMERE MARQUE ET PROCEDE
- [72] HESAMPOUR, MEHRDAD, FI
- [72] NUUTINEN, VESA, FI
- [72] METSALA, ERKKI JOHANNES, FI
- [72] PUUPPONEN, SALLA, FI
- [72] KUKKONEN, VIKTOR, FI
- [71] KEMIRA OYJ, FI
- [85] 2023-11-02
- [86] 2022-06-01 (PCT/US2022/031811)
- [87] (WO2022/256431)
- [30] US (63/195,350) 2021-06-01
- [30] US (63/365,177) 2022-05-23

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[13] A1

- [51] Int.Cl. E21B 43/38 (2006.01)
  - [25] EN
  - [54] ELECTRIC SUBMERSIBLE PUMP (ESP) GAS SLUG PROCESSOR AND MITIGATION SYSTEM
  - [54] PROCESSEUR DE BOUCHON DE GAZ DE POMPE SUBMERSIBLE ELECTRIQUE (ESP) ET SYSTEME D'ATTENUATION
  - [72] BROWN, DONN JASON, US
  - [72] SHETH, KETANKUMAR KANTILAL, US
  - [72] NEWPORT, CASEY LAINE, US
  - [72] KOPECKY, TREVOR ALAN, US
  - [71] HALLIBURTON ENERGY SERVICES, INC., US
  - [85] 2023-11-02
  - [86] 2021-07-20 (PCT/US2021/042395)
  - [87] (WO2023/282920)
  - [30] US (17/369,526) 2021-07-07
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[13] A1

- [25] EN
- [54] SENSITIZING COMPOSITION FOR ENERGETIC HYDROGEN PEROXIDE EMULSIONS
- [54] COMPOSITION SENSIBILISANTE POUR EMULSIONS DE PEROXYDE D'HYDROGÈNE ENERGETIQUES
- [72] GUSTAVSSON, THOMAS, SE
- [72] HAKLAND, ROBERT, SE
- [72] NILSSON, STEFAN, SE
- [71] HYPEX BIO EXPLOSIVES TECHNOLOGY AB, SE
- [85] 2023-11-02
- [86] 2022-05-04 (PCT/EP2022/062014)
- [87] (WO2022/233955)
- [30] EP (21172318.4) 2021-05-05

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[13] A1

- [51] Int.Cl. A61K 31/27 (2006.01) C07C 271/06 (2006.01) C07C 275/04 (2006.01) C07C 335/02 (2006.01)
  - [25] EN
  - [54] METHOD FOR TREATING BLOOD CANCERS
  - [54] METHODE DE TRAITEMENT DE CANCERS DU SANG
  - [72] KULKARNI, ADITYA, US
  - [72] BHATIA, KISHOR, US
  - [72] ZHOU, JIANLI, US
  - [71] LANTERN PHARMA INC., US
  - [85] 2023-11-02
  - [86] 2022-05-03 (PCT/US2022/072091)
  - [87] (WO2022/236270)
  - [30] US (63/183,519) 2021-05-03
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[13] A1

- [25] EN
- [54] WEAR COMPONENT SECUREMENT
- [54] FIXATION DE COMPOSANT D'USURE
- [72] RUVANG, JOHN A., CA
- [71] BLACK CAT WEAR PARTS LTD., CA
- [85] 2023-11-02
- [86] 2022-06-15 (PCT/IB2022/055547)
- [87] (WO2022/264061)
- [30] US (17/351,493) 2021-06-18

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[13] A1

[51] Int.Cl. A61P 25/28 (2006.01) C07C 235/06 (2006.01) C07C 235/08 (2006.01) C07C 235/22 (2006.01) C07C 243/28 (2006.01) C07D 205/04 (2006.01) C07D 213/75 (2006.01) C07D 237/20 (2006.01) C07D 239/42 (2006.01) C07D 241/20 (2006.01) C07D 261/14 (2006.01) C07D 295/185 (2006.01)

[25] EN

[54] FATTY ACID AMIDE HYDROLASE (FAAH) CLEAVABLE PRODRUGS OF THYROMIMETICS AND COMBINATION WITH PERIPHERALLY RESTRICTED FAAH INHIBITORS

[54] PROMEDICAMENTS CLIVABLES D'HYDROLASE DES AMIDES D'ACIDES GRAS (FAAH) DE THYROMIMETIQUES ET COMBINAISON AVEC DES INHIBITEURS DE FAAH RESTREINTS DE MANIERE PERIPHERIQUE

[72] STEARNS, BRIAN ANDREW, US

[72] BACCEI, JILL MELISSA, US

[72] HARRIS, JASON RANDALL, US

[71] AUTOBAHN THERAPEUTICS, INC., US

[85] 2023-11-02

[86] 2022-05-06 (PCT/US2022/028187)

[87] (WO2022/236133)

[30] US (63/185,254) 2021-05-06

[30] US (63/274,856) 2021-11-02

**[21] 3,217,790**  
[13] A1

[51] Int.Cl. C07C 235/20 (2006.01) A61K 31/443 (2006.01) A61P 25/14 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) C07C 235/22 (2006.01) C07D 205/04 (2006.01) C07D 209/94 (2006.01) C07D 213/75 (2006.01) C07D 231/12 (2006.01) C07D 237/20 (2006.01) C07D 261/14 (2006.01) C07D 263/58 (2006.01) C07D 307/78 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01)

[25] EN

[54] FATTY ACID AMIDE HYDROLASE (FAAH) CLEAVABLE PRODRUGS OF BRAIN TARGETING ACTIVES AND COMBINATION WITH PERIPHERALLY RESTRICTED FAAH INHIBITORS

[54] PROMEDICAMENTS CLIVABLES D'HYDROLASE D'AMIDE D'ACIDE GRAS (FAAH) D'AGENTS ACTIFS CIBLANT LE CERVEAU ET COMBINAISON AVEC DES INHIBITEURS DE FAAH A RESTRICTION PERIPHERIQUE

[72] STEARNS, BRIAN ANDREW, US

[72] BACCEI, JILL MELISSA, US

[72] HARRIS, JASON RANDALL, US

[71] AUTOBAHN THERAPEUTICS, INC., US

[85] 2023-11-02

[86] 2022-05-06 (PCT/US2022/028164)

[87] (WO2022/236118)

[30] US (63/185,253) 2021-05-06

**[21] 3,217,792**  
[13] A1

[51] Int.Cl. C07D 403/10 (2006.01)

[25] EN

[54] CDK2 DEGRADERS AND USES THEREOF

[54] AGENTS DE DEGRADATION DE CDK2 ET LEURS UTILISATIONS

[72] ZHENG, XIAOZHANG, US

[72] ZHANG, YI, US

[72] AVERSA, ROBERT, US

[72] ZHU, XIAO, US

[72] COLLIER, PHILIP, US

[71] KYMERA THERAPEUTICS, INC, US

[85] 2023-11-02

[86] 2022-05-06 (PCT/US2022/028076)

[87] (WO2022/236058)

[30] US (63/185,929) 2021-05-07

**[21] 3,217,793**  
[13] A1

[51] Int.Cl. E01B 29/46 (2006.01) E01B 29/17 (2006.01)

[25] EN

[54] AUTOMATED GEOMETRY AND CROWNING APPARATUS FOR USE OF MOBILE ELECTRIC FLASH-BUTT WELDING OF RAILROAD RAILS AND RAIL INSERTS

[54] APPAREIL AUTOMATISE DE GEOMETRIE ET DE COURONNEMENT POUR UTILISER UN SOUDAGE PAR ETINCELAGE ELECTRIQUE MOBILE DE RAILS DE CHEMIN DE FER ET D'INSERTS DE RAIL

[72] KOSKI, KRIS, US

[71] ONE RAIL GROUP, LLC, US

[85] 2023-11-02

[86] 2022-05-07 (PCT/US2022/028220)

[87] (WO2022/240703)

[30] US (63/186,108) 2021-05-08

[30] US (17/738,839) 2022-05-06

**[21] 3,217,791**  
[13] A1

[51] Int.Cl. C08L 23/06 (2006.01) E02D 31/02 (2006.01)

[25] EN

[54] MULTI-TIER FRICTION LINER

[54] REVETEMENT DE FROTTEMENT A ETAGES MULTIPLES

[72] NIEDERMOSER, GUNTHER, US

[72] URCHIK, WILLIAM ANDREW, US

[71] AGRU/AMERICA, INC., US

[85] 2023-11-02

[86] 2022-05-05 (PCT/US2022/027767)

[87] (WO2022/235862)

[30] US (63/184,991) 2021-05-06

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<p>[21] <b>3,217,794</b> [13] A1</p> <p>[51] Int.Cl. G06K 7/10 (2006.01) G06K 17/00 (2006.01) G06K 19/07 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM FOR DETECTING AND CLASSIFYING THE HANDLING OF GOODS DISPLAYED IN RETAILS SHOPS.</p> <p>[54] SYSTEME DE DETECTION ET DE CLASSIFICATION DE LA MANIPULATION DE MARCHANDISES ETALAGEES DANS DES MAGASINS DE VENTE AU DETAIL</p> <p>[72] CASTAGNO, PAOLA, IT</p> <p>[71] CASTAGNO, PAOLA, IT</p> <p>[85] 2023-11-02</p> <p>[86] 2022-04-25 (PCT/IT2022/050108)</p> <p>[87] (WO2022/234606)</p> <p>[30] IT (10202100011246) 2021-05-03</p>
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<p>[21] <b>3,217,795</b> [13] A1</p> <p>[51] Int.Cl. G02B 1/04 (2006.01)</p> <p>[25] EN</p> <p>[54] MULTIFOCAL DIFFRACTIVE SILICONE HYDROGEL CONTACT LENSES</p> <p>[54] LENTILLES DE CONTACT MULTIFOCALES A DIFFRACTION EN HYDROGEL DE SILICONE</p> <p>[72] BASSAMPOUR, ZAHRA, US</p> <p>[72] KOLLURU, CHANDANA, US</p> <p>[72] ZHANG, STEVE YUN, US</p> <p>[72] SNIADY, ADAM K., US</p> <p>[72] MOY, THOMAS M., US</p> <p>[72] CHANG, FRANK, US</p> <p>[72] BORJA, DAVID, US</p> <p>[72] LINDACHER, JOSEPH MICHAEL, US</p> <p>[72] PI, YING, US</p> <p>[71] ALCON INC., CH</p> <p>[85] 2023-10-23</p> <p>[86] 2022-06-13 (PCT/IB2022/055444)</p> <p>[87] (WO2022/263994)</p> <p>[30] US (63/210,193) 2021-06-14</p>
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<p>[21] <b>3,217,797</b> [13] A1</p> <p>[51] Int.Cl. C12N 15/90 (2006.01) C12Q 1/6879 (2018.01) C12N 9/10 (2006.01) C12N 15/79 (2006.01) C12N 15/85 (2006.01)</p> <p>[25] EN</p> <p>[54] BIRDS FOR PRODUCING FEMALE HATCHLING AND METHODS OF PRODUCING SAME</p> <p>[54] OISEAUX POUR LA PRODUCTION D'OISILLONS FEMELLES ET LEURS PROCEDES DE PRODUCTION</p> <p>[72] ABDU, URI, IL</p> <p>[72] OZER, EDEN, IL</p> <p>[71] B.G. NEGEV TECHNOLOGIES AND APPLICATIONS LTD., AT BEN-GURION UNIVERSITY, IL</p> <p>[85] 2023-10-23</p> <p>[86] 2022-04-13 (PCT/IL2022/050389)</p> <p>[87] (WO2022/224244)</p> <p>[30] IL (282597) 2021-04-22</p>
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<p>[21] <b>3,217,799</b> [13] A1</p> <p>[25] EN</p> <p>[54] APPARATUS AND METHOD OF MANUFACTURING MULTI-PIECE OPEN-BACK ISOLATION GARMENTS</p> <p>[54] APPAREIL ET PROCEDE DE FABRICATION DE VETEMENTS D'ISOLATION A OUVERTURE DANS LE DOS A PIECES MULTIPLES</p> <p>[72] ANDREWS, ROBERT E., US</p> <p>[72] DARCY, SAMUEL E., US</p> <p>[72] ROEHRBORN, SCOTT A., US</p> <p>[72] FRITZ, JEFFREY W., US</p> <p>[71] CURT G. JOA, INC., US</p> <p>[85] 2023-11-03</p> <p>[86] 2022-05-20 (PCT/US2022/030362)</p> <p>[87] (WO2022/251075)</p> <p>[30] US (63/202,096) 2021-05-27</p>
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<p>[21] <b>3,217,798</b> [13] A1</p> <p>[51] Int.Cl. C11D 3/30 (2006.01) C09K 8/528 (2006.01)</p> <p>[25] EN</p> <p>[54] COMPOSITIONS AND METHODS FOR THE DISSOLUTION OF IRON SULFIDE</p> <p>[54] COMPOSITIONS ET PROCEDES POUR LA DISSOLUTION DE SULFURE DE FER</p> <p>[72] GONZALEZ, CATHERINE, US</p> <p>[72] HELANDER, JASON, US</p> <p>[72] AN, JUN SU, US</p> <p>[72] SWANSON, THOMAS, US</p> <p>[72] KIM, JIHYE, US</p> <p>[72] PHAN, KIMCHI, US</p> <p>[71] SOLUGEN, INC., US</p> <p>[85] 2023-10-23</p> <p>[86] 2022-04-25 (PCT/US2022/026149)</p> <p>[87] (WO2022/226401)</p> <p>[30] US (63/179,164) 2021-04-23</p>
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<p>[21] <b>3,217,800</b> [13] A1</p> <p>[51] Int.Cl. B01D 46/44 (2006.01) B01D 46/00 (2022.01) B01D 46/10 (2006.01)</p> <p>[25] EN</p> <p>[54] DISINFECTION AIR FILTRATION SYSTEM CONFIGURATION</p> <p>[54] CONFIGURATION DE SYSTEME DE FILTRATION D'AIR DESINFECTANT</p> <p>[72] LOBDELL, VINCENT G., US</p> <p>[72] LOBDELL, MITCHELL RAYMOND, US</p> <p>[72] WANG, XUCHEN, US</p> <p>[72] GUERNSEY, KEVIN, US</p> <p>[72] FRECHETTE, ALEXANDER THOMAS, US</p> <p>[72] CUSACK, TIMOTHY GEORGE, US</p> <p>[72] ROWE, BROOKE ALAN, US</p> <p>[71] HEALTHWAY HOME PRODUCTS COMPANY INC., US</p> <p>[85] 2023-10-23</p> <p>[86] 2022-04-26 (PCT/US2022/026353)</p> <p>[87] (WO2022/232147)</p> <p>[30] US (63/180,471) 2021-04-27</p>
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**[21] 3,217,801**

[13] A1

- [51] Int.Cl. C07D 213/79 (2006.01) A61K 51/04 (2006.01) A61K 51/08 (2006.01) A61K 51/10 (2006.01) C07K 14/00 (2006.01) C07K 16/00 (2006.01)
- [25] EN
- [54] CHELATORS FOR RADIOMETALS AND METHODS OF MAKING AND USING SAME
- [54] CHELATEURS POUR RADIOMETAUX ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION
- [72] ORVIG, CHRIS, CA
- [72] WHARTON, LUKE, CA
- [71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
- [85] 2023-10-24
- [86] 2022-05-06 (PCT/CA2022/050712)
- [87] (WO2022/232943)
- [30] US (63/185,951) 2021-05-07

**[21] 3,217,802**

[13] A1

- [51] Int.Cl. C12Q 1/6806 (2018.01)
- [25] EN
- [54] RAPID MILK SAMPLE PREPARATION METHOD COMPATIBLE WITH MOLECULAR TESTS
- [54] PROCEDE DE PREPARATION RAPIDE D'ECHANTILLON DE LAIT COMPATIBLE AVEC DES TESTS MOLECULAIRES
- [72] VELINENI, SRIDHAR, US
- [71] ZOETIS SERVICES LLC, US
- [85] 2023-10-23
- [86] 2022-04-28 (PCT/US2022/026739)
- [87] (WO2022/232396)
- [30] US (63/181,279) 2021-04-29

**[21] 3,217,803**

[13] A1

- [51] Int.Cl. A61K 39/395 (2006.01) A61K 31/675 (2006.01) A61K 31/704 (2006.01) A61K 38/17 (2006.01) A61P 35/00 (2006.01)
- [25] EN
- [54] DOSING FOR TREATMENT WITH ANTI-CD20/ANTI-CD3 BISPECIFIC ANTIBODY
- [54] DOSAGE POUR LE TRAITEMENT AVEC UN ANTICORPS BISPECIFIQUE ANTI-CD20/ANTI-CD3
- [72] BACAC, MARINA, CH
- [72] BARRETT, MARTIN, GB
- [72] BOEHNKE, AXEL, CH
- [72] CARLILE, DAVID, GB
- [72] DJEBLI, NASSIM, CH
- [72] LECHNER, KATHARINA, DE
- [72] LUNDBERG, LINDA, CH
- [72] MOORE, THOMAS FRANCIS, DE
- [72] MORCOS, PETER N., US
- [72] WEISSER, MARTIN, DE
- [71] F. HOFFMANN-LA ROCHE AG, CH
- [85] 2023-10-24
- [86] 2021-11-02 (PCT/EP2021/080300)
- [87] (WO2022/228706)
- [30] US (63/182,398) 2021-04-30
- [30] US (63/226,962) 2021-07-29

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- [51] Int.Cl. A61B 5/11 (2006.01) G08B 7/06 (2006.01) G08B 21/04 (2006.01) G08B 25/10 (2006.01) G12B 9/04 (2006.01)
- [25] EN
- [54] PATIENT MONITORING SYSTEM AND METHOD
- [54] SYSTEME ET PROCEDE DE SURVEILLANCE DE PATIENT
- [72] THOMAS, JUSTIN K., US
- [72] MCCARTHY, SAMANTHA L., US
- [72] HERNANDEZ, EDUARDO, US
- [72] YOUNG, BRIAN NATHAN, US
- [72] WALDROUP, MELISSA, US
- [72] SAMZ, JOE, US
- [71] TIDI PRODUCTS, LLC, US
- [85] 2023-10-23
- [86] 2022-05-11 (PCT/US2022/028815)
- [87] (WO2022/241020)
- [30] US (63/187,169) 2021-05-11

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- [51] Int.Cl. C07C 7/11 (2006.01) C10G 5/04 (2006.01) C10G 21/06 (2006.01) C10G 21/28 (2006.01)
- [25] EN
- [54] HYDROPROCESSING WITH INCREASED RECYCLE GAS PURITY
- [54] HYDROTRAITEMENT A PURETE DE GAZ DE RECYCLAGE ACCRUE
- [72] STUPIN, STEVEN W., US
- [72] ANDERSEN, STEFAN, DK
- [72] THAKKER, PRIYESH, US
- [71] TOPSOE A/S, DK
- [85] 2023-11-03
- [86] 2022-05-06 (PCT/EP2022/062337)
- [87] (WO2022/234115)
- [30] US (63/185,598) 2021-05-07
- [30] EP (21184518.5) 2021-07-08

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- [54] APPARATUS AND METHOD OF MANUFACTURING MULTI-PIECE CLOSED-BACK ISOLATION GARMENTS
- [54] APPAREIL ET PROCEDE DE FABRICATION DE VETEMENTS D'ISOLATION FERMES DANS LE DOS A PIECES MULTIPLES
- [72] ANDREWS, ROBERT E., US
- [72] DARCY, SAMUEL E., US
- [72] ROEHRBORN, SCOTT A., US
- [72] FRITZ, JEFFREY W., US
- [71] CURT G. JOA, INC., US
- [85] 2023-11-03
- [86] 2022-05-24 (PCT/US2022/030782)
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[13] A1

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[25] EN  
[54] SYSTEM AND METHOD FOR EMERGENCY DISPATCH  
[54] SYSTEME ET PROCEDE DE REPARTITION D'URGENCE  
[72] CLAWSON, JEFFREY J., US  
[72] MCDANIEL, RONALD, US  
[71] CLAWSON, JEFFREY J., US  
[71] PRIORITY DISPATCH CORPORATION, US  
[85] 2023-10-23  
[86] 2022-04-22 (PCT/US2022/071885)  
[87] (WO2022/226544)  
[30] US (17/238,892) 2021-04-23

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[13] A1

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[54] APPARATUS AND METHOD OF MANUFACTURING MULTI-PIECE CLOSED-BACK ISOLATION GARMENTS  
[54] APPAREIL ET PROCEDE DE FABRICATION DE VETEMENTS D'ISOLATION FERMES DANS LE DOS A PIECES MULTIPLES  
[72] ANDREWS, ROBERT E., US  
[72] DARCY, SAMUEL E., US  
[72] ROEHRBORN, SCOTT A., US  
[72] FRITZ, JEFFREY W., US  
[72] JUSTICE, MARK E., US  
[72] GRIFFIN, SAMUEL, US  
[71] CURT G. JOA, INC., US  
[85] 2023-11-03  
[86] 2022-05-24 (PCT/US2022/030778)  
[87] (WO2022/251256)  
[30] US (63/202,109) 2021-05-27

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[13] A1

[51] Int.Cl. E21B 43/00 (2006.01) E21B 47/06 (2012.01)  
[25] EN  
[54] METHOD AND SYSTEM FOR PREDICTING SAND FAILURE IN A HYDROCARBON PRODUCTION WELL AND METHOD AND SYSTEM FOR PRODUCING HYDROCARBON FLUIDS FROM AN EARTH FORMATION  
[54] PROCEDE ET SYSTEME DE PREDICTION D'UNE DEFAILLANCE DE SABLE DANS UN PUITS DE PRODUCTION D'HYDROCARBURES ET PROCEDE ET SYSTEME DE PRODUCTION DE FLUIDES D'HYDROCARBURES A PARTIR D'UNE FORMATION TERRESTRE  
[72] MENDEZ MARTINEZ, HECTOR LUIS, US  
[72] KINGHORN, PAUL LAWRENCE, US  
[72] QUEIPO, NESTOR VINICIO, US  
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL  
[85] 2023-10-24  
[86] 2022-05-05 (PCT/EP2022/062161)  
[87] (WO2022/234020)  
[30] US (63/185,446) 2021-05-07

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[25] EN  
[54] WARHEAD  
[54] PROCEDE DE FABRICATION D'UN COMPOSANT DE TETE EXPLOSIVE  
[72] THUMAN, CHRISTER, SE  
[72] HAMDAN, HAMZAH, SE  
[72] THUVANDER, FREDRIK, SE  
[72] MALMQVIST, OSKAR, SE  
[72] JOHANSSON, BJORN, SE  
[72] BARK, ALEXANDER, SE  
[71] BAE SYSTEMS BOFORS AB, SE  
[85] 2023-10-24  
[86] 2022-04-30 (PCT/SE2022/050418)  
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[13] A1

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[25] EN  
[54] ENHANCEMENT OF CD47 BLOCKADE THERAPY WITH DHFR INHIBITORS  
[54] AMELIORATION DE LA THERAPIE DE BLOCAGE DE CD47 AVEC DES INHIBITEURS DE DHFR  
[72] LIN, GLORIA HOI YING, US  
[72] UGER, ROBERT ADAM, US  
[71] PFIZER INC., US  
[85] 2023-10-24  
[86] 2022-04-25 (PCT/IB2022/053827)  
[87] (WO2022/229818)  
[30] US (63/180,604) 2021-04-27  
[30] US (63/253,125) 2021-10-06

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[21] **3,217,815**  
[13] A1

[25] EN  
[54] APPARATUS AND METHOD OF MANUFACTURING MULTI-PIECE OPEN-BACK ISOLATION GARMENTS  
[54] APPAREIL ET PROCEDE DE FABRICATION DE VETEMENTS D'ISOLATION A OUVERTURE DANS LE DOS A PIECES MULTIPLES  
[72] ANDREWS, ROBERT E., US  
[72] DARCY, SAMUEL E., US  
[72] ROEHRBORN, SCOTT A., US  
[72] FRITZ, JEFFREY W., US  
[71] CURT G. JOA, INC., US  
[85] 2023-11-03  
[86] 2022-05-24 (PCT/US2022/030785)  
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[30] US (63/202,452) 2021-06-11

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[13] A1

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C22C 38/60 (2006.01)  
[25] EN  
[54] GRAIN-ORIENTED ELECTRICAL  
STEEL SHEET  
[54] TOLE D'ACIER  
ELECTROMAGNETIQUE A  
GRAINS ORIENTES  
[72] ICHIHARA, YOSHIHISA, JP  
[72] OMURA, TAKESHI, JP  
[72] SENDA, KUNIHIRO, JP  
[71] JFE STEEL CORPORATION, JP  
[85] 2023-10-24  
[86] 2022-04-27 (PCT/JP2022/019155)  
[87] (WO2022/255014)  
[30] JP (2021-091833) 2021-05-31

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[13] A1

[51] Int.Cl. G01N 30/34 (2006.01) G01N  
30/88 (2006.01) G01N 33/00 (2006.01)  
[25] EN  
[54] ANALYTICAL HPLC  
[54] HPLC ANALYTIQUE  
[72] CLARKE, ALAN, NO  
[72] ENGELBRECHT, HENDRIK  
PETRUS, US  
[72] GRIGG, JULIAN, GB  
[72] KHAN, IMTIAZ AHMED, GB  
[72] WIKENE, KRISTINE, NO  
[72] MCROBBIE, GRAEME, GB  
[71] GE HEALTHCARE LIMITED, GB  
[85] 2023-10-24  
[86] 2022-04-26 (PCT/EP2022/061004)  
[87] (WO2022/229155)  
[30] GB (2105950.6) 2021-04-26

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[13] A1

[51] Int.Cl. A61B 3/02 (2006.01) A61B 3/00  
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9/00 (2006.01)  
[25] EN  
[54] SYSTEM AND METHOD FOR  
IDENTIFYING PRESBYOPIA  
[54] SYSTEME ET PROCEDE POUR  
IDENTIFIER LA PRESBYtie  
[72] WILLIBY, GREG, US  
[72] TODD, STUART, US  
[72] CHEHAB, KHALED, US  
[72] WESTIN, LAUREN, US  
[72] HONEY, WILLIAM, GB  
[72] SALISBURY, JAMES, GB  
[72] LEFAOU, GLENN, GB  
[72] CATTON, HANNAH, GB  
[71] JOHNSON & JOHNSON VISION  
CARE, INC., US  
[85] 2023-10-24  
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[87] (WO2022/229879)  
[30] US (63/180,451) 2021-04-27

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[13] A1

[51] Int.Cl. G06T 7/62 (2017.01)  
[25] EN  
[54] METHOD FOR THE DESIGNING  
AND PRODUCTION OF A  
RENOVATION ELEMENT FOR A  
STAIRCASE PART  
[54] PROCEDE DE CONCEPTION ET  
DE PRODUCTION D'UN  
ELEMENT DE RENOVATION  
POUR UNE PIECE D'ESCALIER  
[72] STEYVERS, JOHANNES MATHEUS  
HENDRIKUS, NL  
[72] STEYVERS, RICK FREDERIKUS  
ANTONIUS, NL  
[72] LIEFHEBBER, FREDERIK, NL  
[72] VAN ELK, MICHEL GERARDUS, NL  
[71] SIP B.V., NL  
[85] 2023-10-24  
[86] 2022-04-27 (PCT/EP2022/061182)  
[87] (WO2022/229251)  
[30] NL (2028078) 2021-04-27

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[13] A1

[51] Int.Cl. A61K 39/395 (2006.01) A61P  
35/00 (2006.01) C07K 14/705  
(2006.01) C07K 16/28 (2006.01)  
[25] EN  
[54] ANTI-GALECTIN-9 ANTIBODIES  
AND THERAPEUTIC USES  
THEREOF  
[54] ANTICORPS ANTI-GALECTINE-9  
ET LEURS UTILISATIONS  
THERAPEUTIQUES  
[72] FILIPOVIC, ALEKSANDRA, US  
[72] ELENKO, ERIC, US  
[72] PADEN, HEATHER, US  
[72] KORTH, CHRISTOPHER, US  
[71] PURETECH LYT, INC., US  
[85] 2023-10-24  
[86] 2022-04-29 (PCT/US2022/027127)  
[87] (WO2022/232641)  
[30] US (63/182,521) 2021-04-30  
[30] US (63/193,357) 2021-05-26  
[30] US (63/313,879) 2022-02-25

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[13] A1

[51] Int.Cl. A61M 25/02 (2006.01) A61B  
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A61M 25/01 (2006.01) A61M 39/02  
(2006.01)  
[25] EN  
[54] SYSTEMS AND METHODS FOR  
ORTHOGONAL  
INTRAVENTRICULAR ACCESS  
[54] SYSTEMES ET PROCEDES  
D'ACCES  
INTRAVENTRICULAIRE  
ORTHOGONAL  
[72] BLUE, RACHEL, US  
[72] SPADOLA, MICHAEL, US  
[71] THE TRUSTEES OF THE  
UNIVERSITY OF PENNSYLVANIA,  
US  
[85] 2023-10-24  
[86] 2022-04-29 (PCT/US2022/026951)  
[87] (WO2022/232521)  
[30] US (63/182,229) 2021-04-30

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[13] A1

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- [25] EN
- [54] SCISSORS WHICH CAN BE TRANSFERRED BETWEEN A CUTTING CONFIGURATION AND A SHARPENING CONFIGURATION
- [54] CISEAUX POUVANT PASSER D'UNE CONFIGURATION DE COUPE A UNE CONFIGURATION DE MEULAGE
- [72] HORL, OTMAR, DE
- [71] HORL 1993 GMBH, DE
- [85] 2023-10-24
- [86] 2022-05-05 (PCT/EP2022/062110)
- [87] (WO2022/233998)
- [30] DE (10 2021 111 591.4) 2021-05-05

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- [51] Int.Cl. A61J 1/20 (2006.01) A61J 1/14 (2006.01)
- [25] EN
- [54] CLOSED SYSTEM TRANSFER DEVICE
- [54] DISPOSITIF DE TRANSFERT A SYSTEME FERME
- [72] BERG, KARL-MARTIN, DE
- [72] KOPP, FLORIN, DE
- [72] SCHNEIDER, UWE ERIK, DE
- [72] SIKHILE, VARAPRASAD, DE
- [72] WALTER, CHRISTIAN, DE
- [72] BRUNETTI, BRUCE W., US
- [72] MOYER, SCOTT ALAN, US
- [72] HIGGINS, GARY, US
- [72] NIXON, JAMES ALBERT, US
- [72] PANICK, NICHOLAS, US
- [71] B. BRAUN MEDICAL INC., US
- [71] B. BRAUN MELSUNGEN AG, DE
- [85] 2023-10-24
- [86] 2022-04-28 (PCT/US2022/026752)
- [87] (WO2022/232405)
- [30] US (63/181,313) 2021-04-29
- [30] US (63/181,387) 2021-04-29
- [30] US (63/181,429) 2021-04-29
- [30] US (63/181,446) 2021-04-29
- [30] US (63/181,457) 2021-04-29
- [30] US (63/196,735) 2021-06-04

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- [51] Int.Cl. G01N 29/06 (2006.01) G01N 29/22 (2006.01) G01N 29/26 (2006.01) G01S 15/89 (2006.01)
- [25] EN
- [54] ADAPTIVE ULTRASONIC INSPECTION FOR VOLUMETRIC FLAWS
- [54] INSPECTION ULTRASONORE ADAPTATIVE POUR DEFAUTS VOLUMetriQUES
- [72] LEPAGE, BENOIT, CA
- [72] ZHANG, JINCHI, CA
- [71] EVIDENT CANADA, INC., CA
- [85] 2023-10-25
- [86] 2022-04-26 (PCT/CA2022/050633)
- [87] (WO2022/226638)
- [30] US (63/201,485) 2021-04-30

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[13] A1

- [51] Int.Cl. A61K 31/496 (2006.01) A61K 31/4995 (2006.01) A61K 31/517 (2006.01) A61K 31/529 (2006.01) A61K 31/5377 (2006.01) A61K 31/5383 (2006.01) A61K 31/541 (2006.01) A61K 31/551 (2006.01) A61K 31/553 (2006.01) A61P 35/00 (2006.01) C07D 417/04 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 471/08 (2006.01) C07D 487/04 (2006.01) C07D 487/08 (2006.01) C07D 487/10 (2006.01) C07D 487/20 (2006.01) C07D 498/04 (2006.01) C07D 498/08 (2006.01) C07D 498/10 (2006.01) C07D 519/00 (2006.01)
- [25] EN
- [54] 2-AMINOBENZOTHIAZOLE COMPOUNDS AND METHODS OF USE THEREOF

- [54] COMPOSES DE 2-AMINOBENZOTHIAZOLE ET LEURS PROCEDES D'UTILISATION

- [72] LANMAN, BRIAN, US
- [72] WURZ, RYAN PAUL, US
- [72] ZHAO, WEI, US
- [72] LI, XIAOFEN, US
- [72] YAMANO, MICHAEL M., US
- [72] LI, YUNXIAO, US
- [72] CHEN, NING, US
- [72] LETH-PETERSEN, SEBASTIAN, US
- [72] LI, KEXUE, US
- [72] PETTUS, LIPING, US
- [72] RAHIMOFF, RENE, US
- [72] NAVARATNE, PRIMALI VASUNDERA, US
- [72] RUI, HUAN, US
- [71] AMGEN INC., US
- [85] 2023-10-24
- [86] 2022-04-28 (PCT/US2022/026624)
- [87] (WO2022/232332)
- [30] US (63/181,627) 2021-04-29

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[51] Int.Cl. G01S 15/89 (2006.01) G01S 7/524 (2006.01)  
[25] EN  
[54] CONTEMPORANEOUS FIRING SCHEME FOR ACOUSTIC INSPECTION  
[54] SYSTEME D'AMORCAGE SIMULTANÉ POUR INSPECTION ACOUSTIQUE  
[72] LEPAGE, BENOIT, CA  
[72] ZHANG, JINCHI, CA  
[71] EVIDENT CANADA, INC., CA  
[85] 2023-10-25  
[86] 2022-04-28 (PCT/CA2022/050649)  
[87] (WO2022/226651)  
[30] US (63/201,468) 2021-04-30

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[13] A1

[51] Int.Cl. A61K 39/395 (2006.01) A61K 31/337 (2006.01) A61K 31/555 (2006.01) A61P 35/00 (2006.01) A61K 38/00 (2006.01)  
[25] EN  
[54] COMBINATION OF ANTI-GALECTIN-9 ANTIBODIES AND CHEMOTHERAPEUTICS FOR USE IN CANCER THERAPY  
[54] COMBINAISON D'ANTICORPS ANTI-GALECTINE-9 ET D'AGENTS CHIMIOTHERAPEUTIQUES DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT DU CANCER  
[72] FILIPOVIC, ALEKSANDRA, US  
[72] ELENKO, ERIC, US  
[72] PADEN, HEATHER, US  
[72] KORTH, CHRISTOPHER, US  
[71] PURETECH LYT, INC., US  
[85] 2023-10-24  
[86] 2022-04-29 (PCT/US2022/027142)  
[87] (WO2022/232653)  
[30] US (63/182,519) 2021-04-30  
[30] US (63/193,381) 2021-05-26  
[30] US (63/313,882) 2022-02-25

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[25] EN  
[54] ORAL CARE AGENT  
[54] AGENT DE SOIN BUCCAL  
[72] SCHULZE ZUR WIESCHE, ERIK, DE  
[72] ENAX, JOACHIM, DE  
[72] MEYER, FREDERIC, DE  
[71] DR. KURT WOLFF GMBH & CO. KG, DE  
[85] 2023-10-25  
[86] 2022-04-28 (PCT/DE2022/100317)  
[87] (WO2022/233361)  
[30] DE (10 2021 111 354.7) 2021-05-03

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[13] A1

[51] Int.Cl. A61M 5/142 (2006.01) A61M 5/172 (2006.01)  
[25] EN  
[54] INTELLIGENT DRUG DELIVERY SYSTEM  
[54] SYSTEME D'ADMINISTRATION DE MEDICAMENT INTELLIGENT  
[72] CHASE, ARNOLD, US  
[71] CHASE, ARNOLD, US  
[85] 2023-11-03  
[86] 2022-05-06 (PCT/US2022/028042)  
[87] (WO2022/236033)  
[30] US (17/314,306) 2021-05-07

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[13] A1

[51] Int.Cl. E21B 7/06 (2006.01) E21B 4/00 (2006.01) E21B 4/02 (2006.01)  
[25] EN  
[54] MUD MOTOR BEARING ASSEMBLY FOR USE WITH A DRILLING SYSTEM  
[54] ENSEMBLE PALIER DE MOTEUR A BOUE DESTINE A ETRE UTILISE AVEC UN SYSTEME DE FORAGE  
[72] MUNGUIA, JOSEPH ROBERT, US  
[72] UDDIN, HASIB, US  
[72] HARDIN, JOHN, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2023-10-24  
[86] 2021-07-19 (PCT/US2021/070899)  
[87] (WO2023/282934)  
[30] US (17/305,567) 2021-07-09

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[51] Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01)  
[25] EN  
[54] LOADING TOOLS FOR PROSTHETIC VALVE DEVICES  
[54] OUTILS DE CHARGEMENT POUR DISPOSITIFS DE VALVES PROTHETIQUES  
[72] HIGGINS, CRAIG, IE  
[71] MEDTRONIC, INC., US  
[85] 2023-10-24  
[86] 2022-05-02 (PCT/IB2022/054027)  
[87] (WO2022/234425)  
[30] US (63/183,172) 2021-05-03  
[30] US (17/701,906) 2022-03-23

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[13] A1

[51] Int.Cl. C12N 1/12 (2006.01) A01N 65/03 (2009.01) A01P 21/00 (2006.01) C05F 11/08 (2006.01)  
[25] EN  
[54] MICROALGAE STRAIN HAVING EFFECT OF PROMOTING PLANT GROWTH AND USE THEREOF  
[54] SOUCHE DE MICROALGUES POSSEDANT UN EFFET FAVORISANT LA CROISSANCE DES PLANTES ET SON UTILISATION  
[72] SHIN, WON SUB, KR  
[72] CHOI, JUNG-WOON, KR  
[72] JANG, SUNGHOON, KR  
[72] KANG, YUNA, KR  
[72] KANG, HAE-WON, KR  
[72] OH, YOUNGJOO, KR  
[72] KIM, GYUREE, KR  
[72] KIM, JI YOUNG, KR  
[71] CJ CHEILJEDANG CORPORATION, KR  
[85] 2023-10-24  
[86] 2022-08-09 (PCT/KR2022/011885)  
[87] (WO2023/043063)  
[30] KR (10-2021-0125207) 2021-09-17

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[21] 3,217,844  
[13] A1

[51] Int.Cl. C07C 319/08 (2006.01) C07C 319/24 (2006.01) C07C 319/28 (2006.01) C07C 321/04 (2006.01) C07C 321/14 (2006.01)  
[25] FR  
[54] PROCESS FOR THE CO-PRODUCTION OF ALKYL MERCAPTAN AND DIALKYL DISULFIDE FROM ALCOHOL  
[54] PROCEDE DE CO-PRODUCTION D'ALKYLMERCAPTAN ET DE DIALKYLDISULFURE A PARTIR D'ALCOOL  
[72] FREMY, GEORGES, FR  
[72] RAYMOND, JEAN-MICHEL, FR  
[72] LAMANT, ERIC, FR  
[71] ARKEMA FRANCE, FR  
[85] 2023-10-25  
[86] 2022-05-10 (PCT/FR2022/050888)  
[87] (WO2022/238650)  
[30] FR (FR2104977) 2021-05-11

[21] 3,217,845  
[13] A1

[51] Int.Cl. G09F 19/22 (2006.01) G01V 15/00 (2006.01)  
[25] EN  
[54] REDUCED FOOTPRINT SSD WITH TEST STATION FOR AN UNDERGROUND PIPELINE  
[54] SSD A EMPREINTE REDUITE AVEC STATION DE TEST POUR PIPELINE SOUTERRAIN  
[72] CONROY, MICHAEL, US  
[72] ALLEN, ROBERT, US  
[71] ARK ENGINEERING & TECHNICAL SERVICES INC., US  
[85] 2023-10-24  
[86] 2022-04-22 (PCT/US2022/025987)  
[87] (WO2022/231975)  
[30] US (63/180,125) 2021-04-27

[21] 3,217,846  
[13] A1

[51] Int.Cl. H05B 45/10 (2020.01) H05B 45/325 (2020.01) H05B 47/10 (2020.01) H05B 47/155 (2020.01) H05B 47/20 (2020.01)  
[25] EN  
[54] A LIGHT OUTPUT SYSTEM AND DESIGN METHOD  
[54] SYSTEME DE SORTIE DE LUMIERE ET PROCEDE DE CONCEPTION  
[72] HIETBRINK, ROELANT BOUDEWIJN, NL  
[72] NIESSEN, EDUARD MATHEUS JOHANNES, NL  
[72] MARTENS, PETER, NL  
[72] SALTERS, BART ANDRE, NL  
[71] KONINKLIJKE PHILIPS N.V., NL  
[85] 2023-10-25  
[86] 2022-04-18 (PCT/EP2022/060200)  
[87] (WO2022/228927)  
[30] EP (21171654.3) 2021-04-30

[21] 3,217,847  
[13] A1

[51] Int.Cl. C07C 319/02 (2006.01) C07C 319/24 (2006.01) C07C 321/04 (2006.01) C07C 321/14 (2006.01)  
[25] FR  
[54] METHOD FOR THE CO-PRODUCTION OF METHYL MERCAPTAN AND DIMETHYL DISULFIDE FROM CARBON OXIDES  
[54] PROCEDE DE CO-PRODUCTION DE METHYLMERCAPTAN ET DE DIMETHYLDISULFURE A PARTIR D'OXYDES DE CARBONE  
[72] FREMY, GEORGES, FR  
[72] RAYMOND, JEAN-MICHEL, FR  
[72] LAMANT, ERIC, FR  
[72] SALEMBIER, HELORI, FR  
[71] ARKEMA FRANCE, FR  
[85] 2023-10-25  
[86] 2022-05-10 (PCT/FR2022/050889)  
[87] (WO2022/238651)  
[30] FR (FR2104979) 2021-05-11

[21] 3,217,849  
[13] A1

[51] Int.Cl. A61K 9/48 (2006.01) A61K 9/08 (2006.01) A61K 31/00 (2006.01)  
[25] EN  
[54] ALKALI METAL SALT COMBINATIONS OF INCOMPATIBLE ACTIVE PHARMACEUTICAL INGREDIENTS  
[54] COMBINAISONS DE SELS DE METAUX ALCALINS D'INGREDIENTS PHARMACEUTIQUES ACTIFS INCOMPATIBLES  
[72] ANDERSON, GARY BRUCE, US  
[72] BAILEY, HOPE PATRICIA, US  
[72] BOGGIA, JONATHON MICHAEL, US  
[72] KINTER, KEVIN SCOTT, US  
[72] MOORE, RACHEL ELIZABETH, US  
[72] PATEL, JIGNA DHANU, US  
[72] PATEL, SHIVANGI AKASH, US  
[71] GLAXOSMITHKLINE CONSUMER HEALTHCARE HOLDINGS (US) LLC, US  
[85] 2023-10-24  
[86] 2022-04-27 (PCT/US2022/026443)  
[87] (WO2022/232211)  
[30] US (63/180,784) 2021-04-28

[21] 3,217,850  
[13] A1

[51] Int.Cl. C07K 16/24 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)  
[25] EN  
[54] MODULATING PRODUCT QUALITY OF ASYMMETRIC MULTISPECIFIC ANTIBODIES THROUGH THE USE OF TEMPERATURE  
[54] MODULATION DE LA QUALITE D'UN PRODUIT D'ANTICORPS MULTISPECIFIQUES ASYMETRIQUES PAR L'UTILISATION DE LA TEMPERATURE  
[72] ZHANG, LI, US  
[72] BARKHORDARIAN, HEDIEH, US  
[72] ZASADZINSKA, EWELINA, US  
[72] DIEP, JONATHAN, US  
[71] AMGEN INC., US  
[85] 2023-10-25  
[86] 2022-04-26 (PCT/US2022/026261)  
[87] (WO2022/232083)  
[30] US (63/180,220) 2021-04-27

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[13] A1

[51] Int.Cl. B01D 47/06 (2006.01) B01D 45/16 (2006.01)  
[25] EN  
[54] DEVICE AND METHOD FOR SEPARATING LIQUID DROPLETS FROM A GAS STREAM BY MEANS OF A CENTRIFUGAL MIST ELIMINATOR  
[54] DISPOSITIF ET PROCEDE POUR SEPARER DES GOUTTES DE LIQUIDE D'UN FLUX DE GAZ AU MOYEN D'UN SEPARATEUR DE GOUTTES CENTRIFUGE  
[72] ZHOU, YUNFEI, DE  
[72] LANG, ORTMUND, DE  
[72] MEIER, MATTHIAS WILHELM, DE  
[72] DE RUITER, CORNELIS HENDRICUS, DE  
[72] KRAMP, MARVIN, DE  
[72] GRACKIEWICZ, GREGOR, DE  
[72] MACHT, JOSEF, DE  
[72] GITTER, MARKUS, DE  
[72] HECHLER, CLAUS, DE  
[71] BASF SE, DE  
[85] 2023-10-25  
[86] 2022-04-19 (PCT/EP2022/060253)  
[87] (WO2022/228938)  
[30] EP (21170447.3) 2021-04-26

**[21] 3,217,852**  
[13] A1

[51] Int.Cl. G08C 17/00 (2006.01) H04W 52/00 (2009.01) H04W 84/00 (2009.01)  
[25] EN  
[54] NETWORK PROTOCOL FOR BATTERY POWERED DEVICES WITHIN A WIRELESS NETWORK  
[54] PROTOCOLE DE RESEAU POUR DISPOSITIFS ALIMENTES PAR BATTERIE DANS UN RESEAU SANS FIL  
[72] UHLING, THOMAS F., US  
[72] BARNES, KEITH WAYNE, US  
[72] BRACE, HOWARD NEAL, US  
[72] JAMIL, IMAD, US  
[72] MONIER, FABRICE, US  
[71] ITRON, INC., US  
[85] 2023-10-24  
[86] 2022-04-27 (PCT/US2022/026582)  
[87] (WO2022/232304)  
[30] US (17/245,544) 2021-04-30

**[21] 3,217,853**  
[13] A1

[51] Int.Cl. A61B 1/00 (2006.01)  
[25] EN  
[54] SUTURE BASED CLOSURE DEVICE  
[54] DISPOSITIF DE FERMETURE A BASE DE SUTURE  
[72] DEUEL, CHRISTOPHER R., US  
[72] BAGLEY, KEVIN L., US  
[72] GILBERT, STAN ROBERT, US  
[71] BOSTON SCIENTIFIC SCIMED, INC., US  
[85] 2023-10-25  
[86] 2022-04-26 (PCT/US2022/026357)  
[87] (WO2022/232150)  
[30] US (63/179,948) 2021-04-26

**[21] 3,217,855**  
[13] A1

[51] Int.Cl. C07C 1/12 (2006.01) C07B 61/00 (2006.01) C07C 1/04 (2006.01) C07C 15/08 (2006.01)  
[25] EN  
[54] METHOD FOR PRODUCING PARA-XYLENE  
[54] PROCEDE DESTINE A PRODUIRE DU PARAXYLENE  
[72] HIROHATA, OSAMU, JP  
[72] ITO, TADASHI, JP  
[72] MASAGAKI, TAICHIRO, JP  
[72] WATANABE, YURIA, JP  
[71] CHIYODA CORPORATION, JP  
[85] 2023-10-25  
[86] 2022-03-23 (PCT/JP2022/013653)  
[87] (WO2022/230467)  
[30] JP (2021-078065) 2021-04-30

**[21] 3,217,856**  
[13] A1

[51] Int.Cl. A61K 31/47 (2006.01) A61K 31/4709 (2006.01) C07D 215/22 (2006.01) C07D 215/227 (2006.01)  
[25] EN  
[54] HETEROCYCLIC COMPOUNDS AND METHODS OF USE  
[54] COMPOSES HETEROCYCLIQUES ET PROCEDES D'UTILISATION  
[72] LANMAN, BRIAN, US  
[72] WURZ, RYAN PAUL, US  
[72] ZHAO, WEI, US  
[72] LI, XIAOFEN, US  
[72] YAMANO, MICHAEL M., US  
[72] LI, YUNXIAO, US  
[72] CHEN, NING, US  
[72] HUSEMOEN, BIRGITTE WEINREICH, US  
[72] LETH-PETERSEN, SEBASTIAN, US  
[72] MEDINA, JOSE M., US  
[72] LI, KEXUE, US  
[72] PETTUS, LIPING, US  
[72] RAHIMOFF, RENE, US  
[72] NAVARATNE, PRIMALI VASUNDERA, US  
[72] RUI, HUAN, US  
[72] MOHR, CHRISTOPHER P., US  
[71] AMGEN INC., US  
[85] 2023-10-24  
[86] 2022-04-28 (PCT/US2022/026623)  
[87] (WO2022/232331)  
[30] US (63/181,625) 2021-04-29  
[30] US (63/277,309) 2021-11-09

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<p style="text-align: right;"><b>[21] 3,217,858</b> [13] A1</p> <p>[51] Int.Cl. A61K 31/443 (2006.01) A61K 9/00 (2006.01) A61K 31/7034 (2006.01) A61K 31/7048 (2006.01) A61K 45/06 (2006.01) A61P 3/10 (2006.01)</p> <p>[25] EN</p> <p>[54] PHARMACEUTICAL COMPOSITION COMPRISING GPR40 AGONIST AND SGLT-2 INHIBITOR</p> <p>[54] COMPOSITION PHARMACEUTIQUE COMPRENANT UN AGONISTE DE GPR40 ET UN INHIBITEUR DE SGLT-2</p> <p>[72] YOON, JONG MIN, KR</p> <p>[72] LEE, DON GIL, KR</p> <p>[72] JE, IN GYU, KR</p> <p>[72] YOON, HONG CHUL, KR</p> <p>[72] PARK, JOON TAE, KR</p> <p>[72] AN, KYUNG MI, KR</p> <p>[72] LEE, JUNG WOO, KR</p> <p>[72] SONG, HAENG JIN, KR</p> <p>[72] HONG, DA HAE, KR</p> <p>[71] ILDONG PHARMACEUTICAL CO., LTD., KR</p> <p>[85] 2023-10-25</p> <p>[86] 2022-04-28 (PCT/KR2022/006120)</p> <p>[87] (WO2022/231357)</p> <p>[30] KR (10-2021-0055992) 2021-04-29</p>	<p style="text-align: right;"><b>[21] 3,217,861</b> [13] A1</p> <p>[51] Int.Cl. C12N 5/071 (2010.01)</p> <p>[25] EN</p> <p>[54] METHODS OF GENERATING MATURE HEPATOCYTES</p> <p>[54] PROCEDES DE GENERATION D'HEPATOCYTES MATURES</p> <p>[72] D'ALESSIO, ANA, US</p> <p>[72] KIMBREL, ERIN, US</p> <p>[71] ASTELLAS INSTITUTE FOR REGENERATIVE MEDICINE, US</p> <p>[85] 2023-10-25</p> <p>[86] 2022-05-05 (PCT/US2022/027776)</p> <p>[87] (WO2022/235869)</p> <p>[30] US (63/185,735) 2021-05-07</p>	<p style="text-align: right;"><b>[21] 3,217,865</b> [13] A1</p> <p>[51] Int.Cl. A61K 38/20 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 14/54 (2006.01) C07K 14/715 (2006.01) C07K 16/46 (2006.01) C07K 17/00 (2006.01) C07K 19/00 (2006.01)</p> <p>[25] EN</p> <p>[54] HUMANIZED CHIMERIC BOVINE ANTIBODIES AND METHODS OF USE</p> <p>[54] ANTICORPS BOVINS CHIMERES HUMANISES ET PROCEDES D'UTILISATION</p> <p>[72] HUANG, RUIQI, US</p> <p>[72] SMIDER, VAUGHN, US</p> <p>[72] MCGREGOR, DUNCAN, US</p> <p>[71] MINOTAUR THERAPEUTICS, INC., US</p> <p>[85] 2023-10-25</p> <p>[86] 2022-04-27 (PCT/US2022/026602)</p> <p>[87] (WO2022/232321)</p> <p>[30] US (63/181,223) 2021-04-28</p>
<p style="text-align: right;"><b>[21] 3,217,862</b> [13] A1</p> <p>[51] Int.Cl. C07K 14/72 (2006.01)</p> <p>[25] EN</p> <p>[54] ANIMAL MODEL HAVING HOMOLOGOUS RECOMBINATION OF MOUSE PTH1 RECEPTOR</p> <p>[54] MODELE ANIMAL AYANT UNE RECOMBINAISON HOMOLOGUE DU RECEPTEUR PTH1 DE SOURIS</p> <p>[72] MANNSTADT, BEATE KLARA MARIA, US</p> <p>[72] GARDELLA, THOMAS JAMES, US</p> <p>[71] RADIUS PHARMACEUTICALS, INC., US</p> <p>[71] THE GENERAL HOSPITAL CORPOATION, US</p> <p>[85] 2023-11-03</p> <p>[86] 2022-05-05 (PCT/US2022/027864)</p> <p>[87] (WO2022/235929)</p> <p>[30] US (63/184,688) 2021-05-05</p> <p>[30] US (63/250,647) 2021-09-30</p>		

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[13] A1

- [51] Int.Cl. A61K 31/58 (2006.01) A61K 45/06 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01)
  - [25] EN
  - [54] NEUROACTIVE STEROID FOR USE IN TREATING MAJOR DEPRESSIVE DISORDER AND POSTPARTUM DEPRESSION IN A LACTATING FEMALE
  - [54] STEROIDE NEUROACTIF DESTINE A ETRE UTILISE DANS LE TRAITEMENT D'UN TROUBLE DEPRESSIF MAJEUR ET DE LA DEPRESSION POST-PARTUM CHEZ UNE FEMME ALLAITANTE
  - [72] LASER, ROBERT ALFONSO, US
  - [72] DOHERTY, JAMES, US
  - [72] JONAS, JEFFREY MARTIN, US
  - [72] KANES, STEPHEN JAY, US
  - [72] GUNDUZ-BRUCE, HANDAN, US
  - [72] BULLOCK, AMY E., US
  - [72] WALD, JEFFREY A., US
  - [71] SAGE THERAPEUTICS, INC., US
  - [85] 2023-10-25
  - [86] 2022-04-29 (PCT/US2022/026908)
  - [87] (WO2022/232494)
  - [30] US (63/181,807) 2021-04-29
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[13] A1

- [51] Int.Cl. A23L 33/00 (2016.01) A23L 33/115 (2016.01) A23L 33/125 (2016.01) A23L 33/15 (2016.01) A23L 33/155 (2016.01) A23L 33/16 (2016.01) A23L 33/175 (2016.01) A61J 1/20 (2006.01) B65D 81/32 (2006.01)
  - [25] EN
  - [54] READY-TO-USE PARENTERAL NUTRITION FORMULATION
  - [54] FORMULATION DE NUTRITION PARENTERALE PRETE A L'EMPLOI
  - [72] BOUREZG, ZOUAOUI, BE
  - [72] DUPONT, CAROLINE ROSELYNE, BE
  - [72] DESBROSSES, FREDDY, BE
  - [72] COUTHOUIS, AURELIE, BE
  - [72] BROSSARD, GABRIEL, BE
  - [72] PADULA, PIERPAOLO, BE
  - [72] TROUILLY, JEAN-LUC, BE
  - [71] BAXTER INTERNATIONAL INC., US
  - [71] BAXTER HEALTHCARE SA, CH
  - [85] 2023-10-25
  - [86] 2022-05-23 (PCT/US2022/030517)
  - [87] (WO2022/251106)
  - [30] US (17/330,076) 2021-05-25
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[13] A1

- [51] Int.Cl. H04N 21/426 (2011.01) H04N 21/472 (2011.01) H04N 19/44 (2014.01)
  - [25] EN
  - [54] A METHOD FOR ANNOTATING VVC SUBPICTURES IN DASH
  - [54] PROCEDE D'ANNOTATION DE SOUS-IMAGES VVC DANS LE CADRE D'UN DASH
  - [72] SODAGAR, IRAJ, US
  - [71] TENCENT AMERICA LLC, US
  - [85] 2023-10-25
  - [86] 2022-12-13 (PCT/US2022/052635)
  - [87] (WO2023/136898)
  - [30] US (63/298,924) 2022-01-12
  - [30] US (18/073,984) 2022-12-02
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[13] A1

- [51] Int.Cl. A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/165 (2006.01) C12N 15/50 (2006.01)
- [25] EN
- [54] VACCINES FOR VIRAL PATHOGENS CONFERRING UNIVERSAL PROTECTION IRRESPECTIVE OF VIRAL MUTATIONS
- [54] VACCINS MULTI-EPITOPES CONTRE LE SARS-COV-2
- [72] JEFFERIES, WILFRED, CA
- [72] RIBECA, PAOLO, GB
- [71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
- [71] THE JAMES HUTTON INSTITUTE, GB
- [85] 2023-11-03
- [86] 2022-05-05 (PCT/CA2022/050705)
- [87] (WO2022/232937)
- [30] US (63/184,547) 2021-05-05

**[21] 3,217,872**  
[13] A1

- [51] Int.Cl. B60G 3/01 (2006.01) B60G 15/06 (2006.01) B60G 21/073 (2006.01)
  - [25] EN
  - [54] DAMPING SYSTEM FOR A CABIN OF A MOBILE WORK MACHINE
  - [54] SYSTEME D'AMORTISSEMENT POUR UNE CABINE D'UNE MACHINE DE TRAVAIL MOBILE
  - [72] HYVONEN, JUKKA, FI
  - [71] PONSSE OYJ, FI
  - [85] 2023-11-03
  - [86] 2022-05-04 (PCT/FI2022/050294)
  - [87] (WO2022/234190)
  - [30] FI (20215518) 2021-05-04
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**[21] 3,217,875**  
[13] A1

- [51] Int.Cl. B01D 53/86 (2006.01)
- [25] EN
- [54] A REACTOR SYSTEM INCLUDING A CATALYST BED MODULE AND PROCESS FOR THE SELECTIVE CATALYTIC REDUCTION OF NITROGEN OXIDES CONTAINED IN GAS STREAMS
- [54] SYSTEME DE REACTEUR COMPRENANT UN MODULE DE LIT CATALYTIQUE ET PROCESSUS DE REDUCTION CATALYTIQUE SELECTIVE D'OXYDES D'AZOTE CONTENUS DANS DES FLUX GAZEUX
- [72] KLINK, WASSIM, US
- [71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
- [85] 2023-10-24
- [86] 2022-05-10 (PCT/US2022/028521)
- [87] (WO2022/240834)
- [30] US (63/186,344) 2021-05-10

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[13] A1

[51] Int.Cl. A61F 5/00 (2006.01) A61B  
17/11 (2006.01)  
[25] EN  
[54] **DEVICES, SYSTEMS, AND METHODS FOR ADJUSTING A PASSAGE THROUGH AN IMPLANTABLE DEVICE**  
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR REGLER UN PASSAGE A TRAVERS UN DISPOSITIF IMPLANTABLE**  
[72] FAVREAU, JOHN THOMAS, US  
[72] PIC, ANDREW, US  
[72] KING, JOSEPH W., US  
[72] LYDECKER, LAUREN SFAKIS, US  
[72] HENCHIE, TRAVIS, US  
[71] BOSTON SCIENTIFIC SCIMED, INC., US  
[85] 2023-10-24  
[86] 2022-05-18 (PCT/US2022/029792)  
[87] (WO2022/245914)  
[30] US (63/190,545) 2021-05-19

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[21] **3,217,877**  
[13] A1

[51] Int.Cl. A61K 31/625 (2006.01) A61P  
25/00 (2006.01)  
[25] EN  
[54] **PSYCHOTROPIC AGENTS AND USES THEREOF**  
[54] **AGENTS PSYCHOTROPES ET LEURS UTILISATIONS**  
[72] VAINO, ANDREW R., US  
[72] GRATTAN, VINCENT T., US  
[72] PRENSKY, ZACHARY, US  
[71] LB PHARMACEUTICALS INC., US  
[85] 2023-10-24  
[86] 2022-05-18 (PCT/US2022/029900)  
[87] (WO2022/245991)  
[30] US (63/189,905) 2021-05-18

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[21] **3,217,879**  
[13] A1

[51] Int.Cl. G06T 17/05 (2011.01) A61B  
6/03 (2006.01)  
[25] EN  
[54] **SYSTEMS AND METHODS FOR RECONSTRUCTING IMPLANTABLE DEVICE GEOMETRY FROM PATIENT-SPECIFIC IMAGING SCANS**  
[54] **SYSTEMES ET PROCEDES DE RECONSTRUCTION DE GEOMETRIE DE DISPOSITIF IMPLANTABLE A PARTIR D'EXAMENS D'IMAGERIE SPECIFIQUES A UN PATIENT**  
[72] DASI, LAKSHMI PRASAD, US  
[72] CHEN, HUANG, US  
[72] ESMAILIE, FATEME, US  
[72] SAMAEI, MILAD, US  
[72] SIVAKUMAR, SRI KRISHNA, US  
[72] YEATS, BREANDAN ANDRE BUTLER, US  
[71] OHIO STATE INNOVATION FOUNDATION, US  
[71] GEORGIA TECH RESEARCH CORPORATION, US  
[85] 2023-10-24  
[86] 2022-05-11 (PCT/US2022/072250)  
[87] (WO2022/241431)  
[30] US (63/187,057) 2021-05-11

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[21] **3,217,880**  
[13] A1

[51] Int.Cl. G06F 16/22 (2019.01) G06F  
9/54 (2006.01)  
[25] EN  
[54] **SYSTEM FOR ENABLING TEMPORAL STRUCTURAL METADATA CHANGES USING VIRTUAL ADDRESSING OF DATA**  
[54] **SYSTEME POUR PERMETTRE LES CHANGEMENTS DE METADONNEES STRUCTURELLES TEMPORELLES EN UTILISANT L'ADRESSAGE VIRTUEL DES DONNEES**  
[72] SINGH, KARANJOT, CA  
[72] DEMERS, DANIEL, CA  
[72] FOWLIE, CONNOR, CA  
[71] CINCHY INC., CA  
[85] 2023-11-03  
[86] 2022-05-19 (PCT/CA2022/050795)  
[87] (WO2022/241562)  
[30] US (63/191,265) 2021-05-20

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[21] **3,217,882**  
[13] A1

[51] Int.Cl. C12N 15/82 (2006.01)  
[25] EN  
[54] **SYSTEMS AND METHODS FOR MODELING RISK OF TRANSCATHETER VALVE DEPLOYMENT**  
[54] **SISTEMES ET PROCEDES DE MODELISATION DU RISQUE DE DEPLOIEMENT DE VALVE TRANSCATHETER**  
[72] DASI, LAKSHMI PRASAD, US  
[72] YEATS, BREANDAN ANDRE BUTLER, US  
[72] CHEN, HUANG, US  
[72] ESMAILIE, FATEME, US  
[72] RAZAVI, ATEFEH, US  
[72] SHAH, IMRAN, US  
[72] SIVAKUMAR, SRI KRISHNA, US  
[72] VENEZIANI, ALESSANDRO, US  
[71] OHIO STATE INNOVATION FOUNDATION, US  
[71] GEORGIA TECH RESEARCH CORPORATION, US  
[71] EMORY UNIVERSITY, US  
[85] 2023-10-24  
[86] 2022-05-11 (PCT/US2022/072251)  
[87] (WO2022/241432)  
[30] US (63/187,046) 2021-05-11

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[21] **3,217,883**  
[13] A1

[51] Int.Cl. G06F 9/50 (2006.01)  
[25] EN  
[54] **QUERY AND UPDATE OF PROCESSOR BOOST INFORMATION**  
[54] **INTERROGATION ET MISE A JOUR D'INFORMATIONS D'AMPLIFICATION DE PROCESSEUR**  
[72] JAVERI, OMKAR, US  
[72] SURMAN, DAVID, US  
[72] LEDERER, SETH, US  
[72] RELSON, PETER, US  
[72] BRADBURY, JONATHAN, US  
[72] KAUFFMAN, HUNTER, US  
[72] STOCK, MARTIN, DE  
[72] BOISVERT, BRENT, US  
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US  
[85] 2023-11-03  
[86] 2022-08-02 (PCT/EP2022/071754)  
[87] (WO2023/012190)  
[30] US (17/395,112) 2021-08-05

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**[21] 3,217,886**  
[13] A1

[51] Int.Cl. B65D 47/12 (2006.01) B65D 51/18 (2006.01) B65D 51/24 (2006.01)  
[25] EN  
[54] LID ASSEMBLY FOR A CONTAINER  
[54] ENSEMBLE COUVERCLE POUR RECIPIENT  
[72] BULLOCK, DUSTIN, US  
[72] DARLING, COLIN, US  
[72] GOLDBERG, EVAN, US  
[71] YETI COOLERS, LLC, US  
[85] 2023-11-03  
[86] 2021-10-26 (PCT/US2021/056577)  
[87] (WO2022/093764)  
[30] US (29/756,180) 2020-10-27  
[30] US (17/244,580) 2021-04-29

**[21] 3,217,887**  
[13] A1

[51] Int.Cl. C07D 251/40 (2006.01) C07D 251/54 (2006.01)  
[25] EN  
[54] LARGE-CONDUCTANCE POTASSIUM CHANNEL MODULATORS, COMPOSITIONS THEREOF, METHODS OF MANUFACTURING THEREOF, AND METHODS OF USE THEREOF  
[54] MODULATEURS DE CANAUX POTASSIQUES A CONDUCTANCE ELEVEE, LEURS COMPOSITIONS, LEURS PROCEDES DE FABRICATION ET LEURS METHODES D'UTILISATION  
[72] PERGOLIZZI, JOSEPH V., US  
[72] RAFFA, ROBERT B., US  
[71] ENALARE THERAPEUTICS INC., US  
[85] 2023-11-03  
[86] 2022-05-04 (PCT/US2022/027637)  
[87] (WO2022/235771)  
[30] US (63/183,717) 2021-05-04

**[21] 3,217,889**  
[13] A1

[25] EN  
[54] SYSTEM FOR SELF-SUSTAINING MODULAR HOUSING  
[54] SYSTEME POUR LOGEMENT MODULAIRE AUTONOME  
[72] HENDREN, GARY W., US  
[71] S.A.M. HOUSE, INC., US  
[85] 2023-11-03  
[86] 2022-05-03 (PCT/US2022/027477)  
[87] (WO2022/235674)  
[30] US (63/183,587) 2021-05-03  
[30] US (17/731,413) 2022-04-28

**[21] 3,217,891**  
[13] A1

[51] Int.Cl. G06F 9/455 (2018.01) G06F 21/53 (2013.01)  
[25] EN  
[54] STORING DIAGNOSTIC STATE OF SECURE VIRTUAL MACHINES  
[54] STOCKAGE D'ETAT DE DIAGNOSTIC DE MACHINES VIRTUELLES SECURISEES  
[72] BRADBURY, JONATHAN, US  
[72] HENDEL, TORSTEN, DE  
[72] BUENDGEN, REINHARD, DE  
[72] IMBRENDA, CLAUDIO, DE  
[72] BORNTRAEGER, CHRISTIAN, DE  
[72] FRANK, JANOSCH ANDREAS, DE  
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US  
[85] 2023-11-03  
[86] 2022-09-12 (PCT/EP2022/075220)  
[87] (WO2023/041462)  
[30] US (17/474,220) 2021-09-14

**[21] 3,217,892**  
[13] A1

[51] Int.Cl. C07D 401/14 (2006.01) A61K 31/515 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 487/10 (2006.01)  
[25] EN  
[54] COMPOUNDS FOR INHIBITING OR DEGRADING TARGET PROTEINS, COMPOSITIONS, COMPRISING THE SAME, METHODS OF THEIR MAKING, AND METHODS OF THEIR USE  
[54] COMPOSES POUR INHIBER OU DEGRADER DES PROTEINES CIBLES, COMPOSITIONS LES COMPRENANT, LEURS PROCEDES DE FABRICATION ET LEURS PROCEDES D'UTILISATION  
[72] MCINTOSH, JOEL, US  
[72] KATO, DAISUKE, US  
[72] MIHALIC, JEFFREY, US  
[72] PENG, GE, US  
[72] WEGRZYNIAK, ERIC, US  
[71] NURIX THERAPEUTICS, INC., US  
[85] 2023-11-03  
[86] 2022-05-03 (PCT/US2022/027512)  
[87] (WO2022/235698)  
[30] US (63/183,619) 2021-05-03  
[30] US (63/304,497) 2022-01-28

**[21] 3,217,894**  
[13] A1

[25] EN  
[54] RECOMBINANT PROTEINACEOUS BINDING MOLECULES  
[54] MOLECULES DE LIAISON PROTEIQUES RECOMBINANTES  
[72] STUHLER, GERNOT, DE  
[72] SCHNYDER, TIM, DE  
[72] NOWOTNY, BORIS, DE  
[72] BREMER, ANNIKA, DE  
[71] JULIUS-MAXIMILIANS- UNIVERSITAET WUERZBURG, DE  
[85] 2023-11-03  
[86] 2022-05-27 (PCT/EP2022/064401)  
[87] (WO2022/248662)  
[30] EP (21176655.5) 2021-05-28

**[21] 3,217,899**  
[13] A1

[51] Int.Cl. H04B 3/46 (2015.01) G01C 21/16 (2006.01) G01R 29/26 (2006.01)  
[25] EN  
[54] ELECTRIC VEHICLE NOISE SNIFFER AND METHODS OF MITIGATING PACKET FLOW INTERRUPTIONS  
[54] RENIFLEUR DE BRUIT DE VEHICULE ELECTRIQUE ET PROCEDES D'ATTENUATION DES INTERRUPTIONS DE FLUX DE PAQUETS  
[72] MANKOWSKI, PETER, CA  
[72] JAGER, WILLEM, CA  
[72] BUIN, ANDREI, CA  
[72] COELHO, LUCAS MALTA VALLE, CA  
[72] HAILU, DANIEL, CA  
[72] IKHLAS, MUHAMMAD, CA  
[71] ACCELERATED SYSTEMS INC., CA  
[85] 2023-11-03  
[86] 2022-05-04 (PCT/IB2022/054125)  
[87] (WO2022/234482)  
[30] US (63/184,090) 2021-05-04  
[30] US (63/221,239) 2021-07-13

## Demandes PCT entrant en phase nationale

<p style="text-align: right;"><b>[21] 3,217,900</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A61B 18/26 (2006.01) A61M 39/22 (2006.01)</p> <p>[25] EN</p> <p>[54] SMART IRRIGATION AND ASPIRATION SYSTEM AND METHOD</p> <p>[54] SYSTEME ET PROCEDE D'IRRIGATION ET D'ASPIRATION INTELLIGENTS</p> <p>[72] YAROSLAVSKY, ILYA, US</p> <p>[72] PILIPETSKII, SERGEI, US</p> <p>[72] BOUTOUSSOV, DMITRI, US</p> <p>[72] ALTHULER, GREGORY, US</p> <p>[72] TRAXER, OLIVIER, US</p> <p>[72] OSTROVSKY, ISAAC, US</p> <p>[72] KOVALENKO, ANASTASIYA, US</p> <p>[72] STUKALIN, FELIX, US</p> <p>[71] IPG PHOTONICS CORPORATION, US</p> <p>[85] 2023-11-03</p> <p>[86] 2022-05-04 (PCT/US2022/027625)</p> <p>[87] (WO2022/235762)</p> <p>[30] US (63/183,675) 2021-05-04</p>	<p style="text-align: right;"><b>[21] 3,217,907</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. C01B 32/192 (2017.01)</p> <p>[25] EN</p> <p>[54] METHOD FOR TRIGGERING A SELF-PROPAGATING PROCESS OF REDUCTION-EXFOLIATION OF GRAPHENE OXIDE IN POROUS MATERIAL</p> <p>[54] METHODE DE DECLENCHEMENT D'UN PROCESSUS DE REDUCTION-EXFOLIATION A AUTO-PROPAGATION D'OXYDE DE GRAPHENE DANS UN MATERIAU POREUX</p> <p>[72] ?ERNAK, MIRKO, SK</p> <p>[72] KRUMPOLEC, RICHARD, SK</p> <p>[72] ZELENAK, FRANTI?EK, SK</p> <p>[71] MASARYKOVA UNIVERZITA, CZ</p> <p>[85] 2023-11-03</p> <p>[86] 2022-05-03 (PCT/CZ2022/050047)</p> <p>[87] (WO2022/233349)</p> <p>[30] CZ (PV 2021-224) 2021-05-05</p>	<p style="text-align: right;"><b>[21] 3,217,909</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. G16H 40/63 (2018.01) G16H 50/30 (2018.01)</p> <p>[25] EN</p> <p>[54] SYSTEMS, DEVICES, AND METHODS FOR PHYSIOLOGICAL PARAMETER ANALYSIS AND RELATED GRAPHICAL USER INTERFACES</p> <p>[54] SYSTEMES, DISPOSITIFS ET PROCEDES D'ANALYSE DE PARAMETRES PHYSIOLOGIQUES ET INTERFACES UTILISATEUR GRAPHIQUES ASSOCIEES</p> <p>[72] KHANAL, DEEPAK, US</p> <p>[72] DUNN, TIMOTHY C., US</p> <p>[72] BIROLINI, LUCA, US</p> <p>[72] SCHULLIAN, JOHN M., US</p> <p>[72] HAYTER, GARY ALAN, US</p> <p>[71] ABBOTT DIABETES CARE INC., US</p> <p>[85] 2023-11-03</p> <p>[86] 2022-06-03 (PCT/US2022/032262)</p> <p>[87] (WO2022/256712)</p> <p>[30] US (63/196,677) 2021-06-03</p> <p>[30] US (63/279,015) 2021-11-12</p> <p>[30] US (63/279,509) 2021-11-15</p> <p>[30] US (63/328,078) 2022-04-06</p>
<p style="text-align: right;"><b>[21] 3,217,902</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. H04N 21/40 (2011.01)</p> <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS INVOLVING ARTIFICIAL INTELLIGENCE AND CLOUD TECHNOLOGY FOR EDGE AND SERVER SOC</p> <p>[54] SYSTEMES ET PROCEDES IMPLIQUANT UNE INTELLIGENCE ARTIFICIELLE ET UNE TECHNOLOGIE EN NUAGE DANS UN SOC PERIPHERIQUE ET DE SERVEUR</p> <p>[72] LEE, JOSHUA, US</p> <p>[71] UNIQUIFY, INC., US</p> <p>[85] 2023-11-03</p> <p>[86] 2022-05-03 (PCT/US2022/027496)</p> <p>[87] (WO2022/235685)</p> <p>[30] US (63/184,576) 2021-05-05</p> <p>[30] US (63/184,630) 2021-05-05</p> <p>[30] US (PCT/US2022/027035) 2022-04-29</p>	<p style="text-align: right;"><b>[21] 3,217,908</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A61B 5/028 (2006.01) A61B 5/029 (2006.01)</p> <p>[25] EN</p> <p>[54] OBTAINING CARDIOVASCULAR AND/OR RESPIRATORY INFORMATION FROM THE MAMMAL BODY</p> <p>[54] OBTENTION D'INFORMATIONS CARDIOVASCULAIRES ET/OU RESPIRATOIRES A PARTIR DU CORPS DE MAMMIFERE</p> <p>[72] KORSTEN, HENDRIKUS HUBERTUS MARIA, NL</p> <p>[72] BACKX, ANTONIUS CORNELIS PETRUS MARIA, NL</p> <p>[72] BOUWMAN, ROBERT ARTHUR, NL</p> <p>[72] KAT, PIETER LUCAS, NL</p> <p>[71] AMAZEC PHOTONICS IP B.V., NL</p> <p>[85] 2023-11-03</p> <p>[86] 2022-05-10 (PCT/NL2022/050256)</p> <p>[87] (WO2022/240289)</p> <p>[30] NL (2028193) 2021-05-11</p>	<p style="text-align: right;"><b>[21] 3,217,910</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A62B 1/06 (2006.01) A63B 29/02 (2006.01)</p> <p>[25] EN</p> <p>[54] ROPE BRAKE</p> <p>[54] FREIN A CABLE</p> <p>[72] SCHUHMACHER, ANDREAS, DE</p> <p>[72] SINNEN, MICHAEL, DE</p> <p>[71] MAMMUT SPORTS GROUP AG, CH</p> <p>[85] 2023-11-03</p> <p>[86] 2022-05-24 (PCT/EP2022/064091)</p> <p>[87] (WO2022/248492)</p> <p>[30] DE (10 2021 002 712.4) 2021-05-25</p>

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**[21] 3,217,914**  
[13] A1

- [51] Int.Cl. C07K 14/725 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)
  - [25] EN
  - [54] CHIMERIC ANTIGEN RECEPTORS WITH MAGE-A4 SPECIFICITY AND USES THEREOF
  - [54] RECEPTEURS ANTIGENIQUES CHIMERIQUES PRESENTANT UNE SPECIFICITE POUR MAGE-A4 ET UTILISATIONS ASSOCIEES
  - [72] BRAY, KEVIN, US
  - [72] DELFINO, FRANK, US
  - [72] DILILLO, DAVID, US
  - [71] REGENERON PHARMACEUTICALS, INC., US
  - [85] 2023-11-03
  - [86] 2022-05-03 (PCT/US2022/027463)
  - [87] (WO2022/235662)
  - [30] US (63/184,183) 2021-05-04
  - [30] US (63/239,293) 2021-08-31
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**[21] 3,217,915**  
[13] A1

- [51] Int.Cl. C10L 1/224 (2006.01) C10L 1/2387 (2006.01)
- [25] EN
- [54] SYNTHETIC LUBRICITY ADDITIVES FOR HYDROCARBON FUELS
- [54] ADDITIFS LUBRIFIANTS SYNTHETIQUES DESTINES AUX CARBURANTS HYDROCARBONES
- [72] DHAWAN, ASHISH, US
- [72] LI, XIAOJIN H., US
- [72] SORIANO JR., NESTOR U., US
- [72] EURESTE, KARINA, US
- [71] ECOLAB USA INC., US
- [85] 2023-11-03
- [86] 2022-05-13 (PCT/US2022/029166)
- [87] (WO2022/241203)
- [30] US (63/188,095) 2021-05-13

**[21] 3,217,918**  
[13] A1

- [51] Int.Cl. B22F 9/12 (2006.01) B22F 1/054 (2022.01) C30B 11/12 (2006.01) C30B 29/36 (2006.01) C30B 29/60 (2006.01)
  - [25] EN
  - [54] NANOWIRES NETWORK
  - [54] RESEAU DE NANOFILS
  - [72] VILATELA GARCIA, JUAN JOSE, ES
  - [72] SCHAUFELE, RICHARD SANTIAGO, ES
  - [72] GOMEZ PALOS, ISABEL, ES
  - [72] VAZQUEZ PUFLAU, MIGUEL, ES
  - [71] FUNDACION IMDEA MATERIALES, ES
  - [85] 2023-11-03
  - [86] 2022-05-05 (PCT/EP2022/062149)
  - [87] (WO2022/234014)
  - [30] EP (21382408.9) 2021-05-06
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**[21] 3,217,920**  
[13] A1

- [25] EN
- [54] RAS INHIBITORS FOR THE TREATMENT OF CANCER
- [54] INHIBITEURS DE RAS POUR LE TRAITEMENT DU CANCER
- [72] BUCKL, ANDREAS, US
- [72] BURNETT, G. LESLIE, US
- [72] CREGG, JAMES, US
- [72] EDWARDS, ANNE V., US
- [72] GILL, ADRIAN L., US
- [72] KNOX, JOHN E., US
- [72] KOLTUN, ELENA S., US
- [72] PITZEN, JENNIFER, US
- [72] SEMKO, CHRISTOPHER, US
- [71] REVOLUTION MEDICINES, INC., US
- [85] 2023-11-03
- [86] 2022-05-05 (PCT/US2022/027778)
- [87] (WO2022/235870)
- [30] US (63/184,618) 2021-05-05

**[21] 3,217,922**  
[13] A1

- [51] Int.Cl. A24F 40/30 (2020.01) A24D 1/20 (2020.01) A24F 40/42 (2020.01) A24F 40/46 (2020.01) A24D 1/04 (2006.01) A24D 3/02 (2006.01) A24D 3/04 (2006.01)
  - [25] EN
  - [54] AEROSOL-GENERATING DEVICE AND MEDIUM RECEIVING ROD
  - [54] DISPOSITIF DE GENERATION D'AEROSOL ET TIGE DE RECEPTION DE MILIEU
  - [72] PARK, INSU, KR
  - [72] KWON, CHAN MIN, KR
  - [72] LEE, MI JEONG, KR
  - [72] KIM, MIN KYU, KR
  - [71] KT & G CORPORATION, KR
  - [85] 2023-11-03
  - [86] 2022-10-07 (PCT/KR2022/015153)
  - [87] (WO2023/059138)
  - [30] KR (10-2021-0132906) 2021-10-07
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**[21] 3,217,924**  
[13] A1

- [51] Int.Cl. G01R 33/383 (2006.01)
- [25] EN
- [54] NEURAL INTERVENTIONAL MAGNETIC RESONANCE IMAGING APPARATUS
- [54] APPAREIL D'IMAGERIE PAR RESONANCE MAGNETIQUE POUR INTERVENTION NEURONALE
- [72] NACEV, ALEKSANDAR, US
- [72] VOHRA, AMIT, US
- [72] KUMAR, DINESH, US
- [72] SADWANI, NIKHIL, US
- [72] ANDERSON, NIO, US
- [71] NEURO42 INC., US
- [85] 2023-11-03
- [86] 2022-05-05 (PCT/US2022/072143)
- [87] (WO2022/236308)
- [30] US (63/184,748) 2021-05-05

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[21] **3,217,925**  
[13] A1

[51] Int.Cl. C07D 307/33 (2006.01)  
 [25] EN  
**[54] METHOD FOR PREPARING LACTONES HAVING AT LEAST ONE GROUP SELECTED FROM CARBOXYL, CARBOALKOXY, HYDROXY AND CARBOXYLATE**  
**[54] PROCEDE DE PREPARATION DE LACTONES AYANT AU MOINS UN GROUPE CHOISI PARMI LE CARBOXYLE, LE CARBOALCOXY, L'HYDROXY ET LE CARBOXYLATE**  
 [72] GROESSL, SYLVESTER, DE  
 [72] LINKE, STEPHANIE SYBILLE, DE  
 [72] BAIER, GRIT, DE  
 [72] TAVARES ANDRE, RUTE DA CONCEICAO, DE  
 [71] BASF SE, DE  
 [85] 2023-11-03  
 [86] 2022-05-04 (PCT/EP2022/061912)  
 [87] (WO2022/233906)  
 [30] EP (21172097.4) 2021-05-04

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[21] **3,217,927**  
[13] A1

[25] EN  
**[54] ORAL AQUEOUS SUSPENSION FORMULATIONS COMPRISING CARBAMATE COMPOUND**  
**[54] FORMULATIONS DE SUSPENSION AQUEUSE ORALE COMPRENANT UN COMPOSE CARBAMATE**  
 [72] PENDSE, PRAVADA, US  
 [72] BOMMANA, MURALI M, US  
 [72] NOH, REGINA H., US  
 [72] PEGAN, AUGUSTIN, US  
 [72] WEBB, TRAVIS JOHN, US  
 [72] MAXWELL, JEJUAN, US  
 [71] SK BIOPHARMACEUTICALS CO., LTD., KR  
 [85] 2023-11-03  
 [86] 2022-05-27 (PCT/KR2022/007581)  
 [87] (WO2022/250499)  
 [30] US (63/194,276) 2021-05-28

[21] **3,217,928**  
[13] A1

[51] Int.Cl. A61K 31/573 (2006.01) A61P 31/14 (2006.01)  
 [25] EN  
**[54] LIPOSOME-ENCAPSULATED CORTICOSTERIODS INHIBIT SARS-COV-2 REPLICATION AND REDUCES LUNG INFLAMMATION**  
**[54] INHIBITION DE LA REPLICATION DU SARS-COV-2 ET REDUCTION DE L'INFLAMMATION PULMONAIRE PAR CORTICOSTERIODS ENCAPSULES DANS DES LIPOSOMES**  
 [72] KONDURI, KAMESWARI S., US  
 [72] PATTISAPU, RAM, US  
 [72] DUZGUNES, NEJAT, US  
 [72] PATTISAPU, JOGI, US  
 [72] ZWETCHKENBAUM, JOHN, US  
 [71] VGSK TECHNOLOGIES, INC., US  
 [71] DUZGUNES, NEJAT, US  
 [85] 2023-11-03  
 [86] 2022-05-05 (PCT/US2022/027838)  
 [87] (WO2022/235907)  
 [30] US (63/184,580) 2021-05-05

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[21] **3,217,931**  
[13] A1

[25] EN  
**[54] SUSTAINABLE MULTILAYER FILM**  
**[54] FILM MULTICOUCHE DURABLE**  
 [72] SCHUTTERT, MATHIJS, NL  
 [72] STEVELS, JOLIEN, NL  
 [71] TRIOWORLD APELDOORN B.V., NL  
 [85] 2023-11-03  
 [86] 2022-05-04 (PCT/EP2022/062035)  
 [87] (WO2022/233965)  
 [30] EP (21172487.7) 2021-05-06

[21] **3,217,932**  
[13] A1

[51] Int.Cl. F04B 23/02 (2006.01) F04B 15/08 (2006.01) F04B 53/14 (2006.01) F04B 53/12 (2006.01) F04B 53/16 (2006.01)  
 [25] FR  
**[54] COMPRESSION APPARATUS AND FILLING STATION COMPRISING SUCH AN APPARATUS**  
**[54] APPAREIL DE COMPRESSION ET STATION DE REMPLISSAGE COMPRENANT UN TEL APPAREIL**  
 [72] BENISTAND-HECTOR, CYRIL, FR  
 [72] GRASER, MARTIN, DE  
 [71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR  
 [85] 2023-11-03  
 [86] 2022-05-04 (PCT/EP2022/061961)  
 [87] (WO2022/243040)  
 [30] FR (FR2105323) 2021-05-21

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[21] **3,217,933**  
[13] A1

[25] EN  
**[54] A MICROWAVEABLATION PROBE**  
**[54] SONDE D'ABLATION PAR MICRO-ONDES**  
 [72] RUVIO, GIUSEPPE, IE  
 [72] EATON-EVANS, JIMMY, IE  
 [72] HOGAN, SIMON, IE  
 [72] CARR, DAMIAN, IE  
 [71] ENDOWAVE LTD., IE  
 [85] 2023-11-03  
 [86] 2022-05-04 (PCT/EP2022/061986)  
 [87] (WO2022/233938)  
 [30] EP (21172155.0) 2021-05-04

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[21] 3,217,934

[13] A1

- [51] Int.Cl. F41A 21/38 (2006.01) F41A 21/30 (2006.01) F41A 21/32 (2006.01) F41C 27/22 (2006.01)
- [25] EN
- [54] TUNER ATTACHED TO A MUZZLE BRAKE OR SUPPRESSOR OF A FIREARM
- [54] SYNTONISEUR FIXE A UN FREIN DE BOUCHE OU A UN SILENCIEUX D'UNE ARME A FEU
- [72] CORTINA, ERIK, US
- [71] CORTINA, ERIK, US
- [85] 2023-11-03
- [86] 2022-05-04 (PCT/US2022/027643)
- [87] (WO2022/235776)
- [30] US (63/183,850) 2021-05-04

[21] 3,217,937

[13] A1

- [51] Int.Cl. A61K 31/4433 (2006.01) C07D 311/30 (2006.01) C07D 405/04 (2006.01) C07D 405/10 (2006.01) C07D 405/12 (2006.01) C07D 407/04 (2006.01) C07D 413/10 (2006.01) C07D 417/12 (2006.01)
- [25] EN
- [54] ALLOSTERIC CHROMENONE INHIBITORS OF PHOSPHOINOSITIDE 3-KINASE (PI3K) FOR THE TREATMENT OF DISEASE
- [54] INHIBITEURS CHROMENONE ALLOSTÉRIQUES DE LA PHOSPHOINOSITIDE 3-KINASE (PI3K) POUR LE TRAITEMENT DE MALADIES
- [72] ANDERSON, ERIN DANIELLE, US
- [72] ARONOW, SEAN DOUGLAS, US
- [72] BOYLES, NICHOLAS A., US
- [72] CHEN, XIAOHONG, US
- [72] DAWADI, SURENDRA, US
- [72] HICKEY, EUGENE R., US
- [72] IRVIN, THOMAS COMBS, US
- [72] KESICKI, EDWARD A., US
- [72] KNIGHT, JENNIFER LYNN, US
- [72] KOLAKOWSKI, GABRIELLE R., US
- [72] KUMAR, MANOJ, US
- [72] LONG, KATELYN FRANCES, US
- [72] MAYNE, CHRISTOPHER GLENN, US
- [72] PICADO, ALFREDO, US
- [72] POTOTSCHNIG, GERIT MARIA, US
- [72] WANG, HUA-YU, US
- [72] WELCH, MICHAEL BRIAN, US
- [72] WIDJAJA, TIEN, US
- [72] WRIGHT, NATHAN EDWARD, US
- [71] PETRA PHARMA CORPORATION, US
- [85] 2023-11-03
- [86] 2022-05-02 (PCT/US2022/027304)
- [87] (WO2022/235574)
- [30] US (63/183,355) 2021-05-03
- [30] US (63/227,526) 2021-07-30
- [30] US (63/250,530) 2021-09-30
- [30] US (63/253,232) 2021-10-07

[21] 3,217,940

[13] A1

- [25] EN
- [54] BEVERAGE DRINKING APPARATUS
- [54] APPAREIL SERVANT A BOIRE DES BOISSONS
- [72] WIDMANN, NICHOLAS, US
- [71] WILD MAN LAB LLC, US
- [85] 2023-11-03
- [86] 2022-05-13 (PCT/US2022/029180)
- [87] (WO2022/241210)
- [30] US (63/188,530) 2021-05-14

[21] 3,217,941

[13] A1

- [51] Int.Cl. C07D 471/04 (2006.01)
- [25] EN
- [54] PIPERAZINE DERIVATIVE AND USE THEREOF IN MEDICINE
- [54] DERIVE DE PIPERAZINE ET SON UTILISATION EN MEDECINE
- [72] CHU, HONGZHU, CN
- [72] DENG, WUTONG, CN
- [72] LIU, WEI, CN
- [72] SUN, YI, CN
- [72] WEI, YONGGANG, CN
- [72] ZHU, YUQIN, CN
- [72] YE, FEI, CN
- [71] CHENGDU BAIYU PHARMACEUTICAL CO., LTD., CN
- [85] 2023-11-03
- [86] 2022-05-20 (PCT/CN2022/094124)
- [87] (WO2022/242750)
- [30] CN (202110550437.2) 2021-05-21
- [30] CN (202110562428.5) 2021-05-24
- [30] CN (202110885041.3) 2021-08-03
- [30] CN (202111331120.6) 2021-11-12
- [30] CN (202210084201.9) 2022-01-25

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[21] **3,217,942**  
[13] A1

[51] Int.Cl. C07K 16/24 (2006.01)  
[25] EN  
[54] **IONIC LIQUID FORMULATIONS FOR TREATING INFLAMMATORY AND AUTOIMMUNE DISEASES**  
[54] **FORMULATIONS LIQUIDES IONIQUES POUR LE TRAITEMENT DE MALADIES INFLAMMATOIRES ET AUTO-IMMUNES**  
[72] BROWN, TYLER, US  
[72] IBSEN, KELLY, US  
[71] I2O THERAPEUTICS, INC., US  
[85] 2023-11-03  
[86] 2022-05-05 (PCT/US2022/027794)  
[87] (WO2022/235882)  
[30] US (63/184,333) 2021-05-05

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[21] **3,217,945**  
[13] A1

[51] Int.Cl. B05B 15/30 (2018.01)  
[25] EN  
[54] **LIQUID PUMP DISPENSER INCLUDING A VIAL ADAPTER**  
[54] **DISTRIBUTEUR DE POMPE A LIQUIDE COMPRENANT UN ADAPTATEUR DE FLACON**  
[72] DADACHANJI, RISHAD KAIRUS, IN  
[72] POTDAR, PRATUL PRAKASH, IN  
[72] PATEL, KEYURKUMAR ARVINDBHAI, IN  
[72] CHUDASMA, KRUPAL ASHOKBHAI, IN  
[71] KAIRISH INNOTECH PRIVATE LTD., IN  
[85] 2023-11-03  
[86] 2022-07-01 (PCT/IN2022/050604)  
[87] (WO2023/275899)  
[30] IN (202121029684) 2021-07-01

[21] **3,217,946**  
[13] A1

[51] Int.Cl. G21C 15/257 (2006.01) G21F 5/10 (2006.01)  
[25] EN  
[54] **MODULAR THERMAL AND RADIATION SHIELDING WITH PASSIVE HEAT REMOVAL**  
[54] **PROTECTION MODULAIRE THERMIQUE ET CONTRE LES RAYONNEMENTS AVEC ELIMINATION PASSIVE DE LA CHALEUR**  
[72] TRUPIANO, ANTHONY G., US  
[72] STANISH, ADANA L., US  
[72] DURFEE, JONATHAN C., US  
[72] BROWN, WILLIAM L., US  
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US  
[85] 2023-11-03  
[86] 2022-05-05 (PCT/US2022/072141)  
[87] (WO2022/236306)  
[30] US (17/308,353) 2021-05-05

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[21] **3,217,952**  
[13] A1

[51] Int.Cl. H04W 36/00 (2009.01) H04W 36/14 (2009.01)  
[25] EN  
[54] **HANDLING OF USER EQUIPMENT (UE) CONTEXT INFORMATION AFTER INTER-SYSTEM HANDOVER**  
[54] **GESTION D'INFORMATIONS DE CONTEXTE D'EQUIPEMENT UTILISATEUR (UE) APRES UN TRANSFERT INTERCELLULAIRE INTER-SYSTEME**  
[72] SHI, NIANSHAN, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2023-11-03  
[86] 2022-04-21 (PCT/SE2022/050387)  
[87] (WO2022/235184)  
[30] US (63/184,320) 2021-05-05

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[21] **3,217,953**  
[13] A1

[51] Int.Cl. D06F 34/05 (2020.01)  
[25] EN  
[54] **SYSTEM FOR COMMERCIAL SERVICES OR FACILITIES**  
[54] **SISTÈME POUR INSTALLATIONS OU SERVICES COMMERCIAUX**  
[72] WULFF, JURI, DK  
[72] MORTENSEN, CHRISTIAN BONDE, DK  
[71] AIRWALLET APS, DK  
[85] 2023-11-03  
[86] 2022-05-16 (PCT/EP2022/063191)  
[87] (WO2022/243244)  
[30] DK (PA202100510) 2021-05-17

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[21] **3,217,958**  
[13] A1

[51] Int.Cl. A61B 17/86 (2006.01)  
[25] EN  
[54] **KIT FOR THE INSTALLATION OF PROSTHETIC COMPONENTS AND/OR BIOMEDICAL IMPLANTS**  
[54] **KIT D'INSTALLATION D'ELEMENTS PROTHÉTIQUES ET/OU D'IMPLANTS BIOMÉDICAUX**  
[72] DI BELLA, SIMONE, IT  
[72] ZOCCALI, CARMINE, IT  
[71] MT ORTHO S.R.L., IT  
[85] 2023-11-03  
[86] 2022-05-27 (PCT/IB2022/054988)  
[87] (WO2022/249137)  
[30] IT (102021000013841) 2021-05-27

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**[21] 3,217,959**  
[13] A1

[51] Int.Cl. A24B 15/16 (2020.01) A24B  
15/38 (2006.01)  
[25] EN  
[54] ORAL COMPOSITIONS AND  
RELATED METHODS FOR  
REDUCING THROAT  
IRRITATION  
[54] COMPOSITIONS ORALES ET  
PROCEDES ASSOCIES POUR  
REDUIRE L'IRRITATION DE LA  
GORGE  
[72] SAIN, MATTHEW D., US  
[72] CAMPOS, ALEXANDRE MENDES,  
GB  
[72] POOLE, THOMAS H., GB  
[72] KELLER, CHRISTOPHER, GB  
[72] ROOHINEJAD, SHAHIN, GB  
[71] NICOVENTURES TRADING  
LIMITED, GB  
[85] 2023-11-03  
[86] 2022-05-05 (PCT/IB2022/054181)  
[87] (WO2022/234522)  
[30] US (63/184,833) 2021-05-06

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**[21] 3,217,960**  
[13] A1

[51] Int.Cl. B64D 1/22 (2006.01)  
[25] EN  
[54] PAYLOAD SUPPORT FRAME FOR  
UNMANNED AERIAL SYSTEM  
[54] CADRE DE SUPPORT DE  
CHARGE UTILE POUR SYSTEME  
VOLANT SANS PILOTE  
EMBARQUE  
[72] BEIRO, MICHAEL KENNETH, US  
[72] CORBIN, ALVIN LEROY, US  
[72] COBLE, CHASE HAMILTON, US  
[72] SCHUL, DAVID CARSON, US  
[71] BEIROBOTICS LLC, US  
[85] 2023-11-03  
[86] 2022-05-03 (PCT/US2022/027481)  
[87] (WO2022/235677)  
[30] US (63/184,668) 2021-05-05  
[30] US (17/735,111) 2022-05-02

**[21] 3,217,963**  
[13] A1

[51] Int.Cl. G02B 21/26 (2006.01)  
[25] EN  
[54] A MOBILE SLIDE IMAGING KIT  
AND USE THEREOF  
[54] KIT D'IMAGERIE A LAME  
MOBILE ET SON UTILISATION  
[72] IZQUIERDO HIJAZI, DANIEL, IE  
[72] LOPEZ ESCOBAR, JOSE, IE  
[72] SMITH, SEAN, IE  
[72] RICHARDS, BRIAN, IE  
[72] DAS, VINEETH, IE  
[72] MCELLIGOTT, TARA, IE  
[71] MICRON AGRITECH LIMITED, IE  
[85] 2023-11-03  
[86] 2022-05-04 (PCT/EP2022/062068)  
[87] (WO2022/233985)  
[30] GB (2106375.5) 2021-05-04

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**[21] 3,217,964**  
[13] A1

[51] Int.Cl. A61P 1/16 (2006.01) A61P  
31/12 (2006.01) C07F 9/10 (2006.01)  
[25] EN  
[54] mRNA DELIVERY USING LIPID  
NANOPARTICLES  
[54] ADMINISTRATION D'ARNM A  
L'AIDE DE NANOParticules  
LIPIDIQUES  
[72] KULKARNI, JAYESH, CA  
[72] CHANDER, NISHA, CA  
[72] CIUFOLINI, MARCO, CA  
[72] WITZIGMANN, DOMINIK, CA  
[72] CULLIS, PIETER, CA  
[72] BASHA, GENC, CA  
[71] THE UNIVERSITY OF BRITISH  
COLUMBIA, CA  
[85] 2023-11-03  
[86] 2022-05-31 (PCT/CA2022/050868)  
[87] (WO2022/251953)  
[30] US (63/195,269) 2021-06-01

**[21] 3,217,966**  
[13] A1

[51] Int.Cl. B21D 39/04 (2006.01) B25B  
27/00 (2006.01) B25B 27/10 (2006.01)  
F16L 13/14 (2006.01) F16L 33/20  
(2006.01) F16L 33/207 (2006.01) F16L  
37/091 (2006.01)  
[25] EN  
[54] SYSTEM FOR CONNECTING  
RIGID PIPES AND FOR  
CONNECTING FLEXIBLE PIPES,  
AND FITTINGS FOR SUCH A  
SYSTEM  
[54] SYSTEME POUR RACCORDER  
DES TUYAUX RIGIDES ET POUR  
RACCORDER DES TUYAUX  
FLEXIBLES ET RACCORDS POUR  
UN TEL SYSTEME  
[72] SINOPLU, SUDI, DE  
[72] ROCKSLOH, STEFAN, DE  
[72] DUPERTHAL, FABIAN, DE  
[72] HARTMANN, ANTON, DE  
[72] KOSTER, PAUL, DE  
[72] DASBACH, PHILIPP, DE  
[72] AVCI, MESUT, DE  
[72] ROSENTHAL, JORG, DE  
[72] MULLER, ANDREAS, DE  
[71] VIEGA TECHNOLOGY GMBH & CO.  
KG, DE  
[85] 2023-11-03  
[86] 2022-05-03 (PCT/EP2022/061807)  
[87] (WO2022/233844)  
[30] EP (21172019.8) 2021-05-04

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**[21] 3,217,967**  
[13] A1

[25] EN  
[54] SELF-SEALING FUEL TANK AND  
METHOD OF FORMING A SELF-  
SEALING FUEL TANK  
[54] RESERVOIR DE CARBURANT  
AUTO-OBTURANT ET PROCEDE  
DE FORMATION D'UN  
RESERVOIR DE CARBURANT  
AUTO-OBTURANT  
[72] STUCK, LARRY W., US  
[72] VOGEL, COLIN G., US  
[72] MONTANGE, FLAVIEN P., US  
[72] BRUDER, DANIEL T., US  
[71] HUTCHINSON, S.A., FR  
[85] 2023-11-03  
[86] 2022-05-06 (PCT/IB2022/054241)  
[87] (WO2022/234545)  
[30] US (63/185,437) 2021-05-07

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<p>[21] 3,217,968 [13] A1</p> <p>[51] Int.Cl. B33Y 80/00 (2015.01) F16K 5/06 (2006.01) F16K 5/10 (2006.01) F16K 5/12 (2006.01) F16K 5/14 (2006.01) F16K 5/20 (2006.01) F16K 47/04 (2006.01)</p> <p>[25] EN</p> <p>[54] BALL CONTROL VALVES HAVING THREE-DIMENSIONAL TORTUOUS PATH FLOWPATHS</p> <p>[54] ROBINETS A TOURNANT SPHERIQUE COMPORANT DES TRAJETS D'ECOULEMENT TORTUEUX EN TROIS DIMENSIONS</p> <p>[72] FREITAS, STEPHEN, US [72] MENDOZA, RUBEN, US [72] WATSON, DANIEL W., US [72] GILLETTE, SHANE, US [72] NEWTON, RAYMOND R., US [72] TAYLOR, ROBERT, GB [72] MORTON, TOM, GB [71] CONTROL COMPONENTS, INC., US [85] 2023-11-03 [86] 2022-05-02 (PCT/US2022/027326) [87] (WO2022/235582) [30] US (63/185,813) 2021-05-07 [30] US (17/731,800) 2022-04-28</p>
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<p>[21] 3,217,972 [13] A1</p> <p>[51] Int.Cl. A61K 9/00 (2006.01) A61K 31/416 (2006.01) A61K 31/713 (2006.01) A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61K 45/06 (2006.01) A61K 49/00 (2006.01) A61P 25/00 (2006.01) A61P 25/06 (2006.01) A61P 25/08 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 25/28 (2006.01) A61P 25/30 (2006.01) A61P 35/00 (2006.01)</p> <p>[25] EN</p> <p>[54] PHARMACEUTICAL COMPOSITIONS FOR TREATING NEUROLOGICAL CONDITIONS</p> <p>[54] COMPOSITIONS PHARMACEUTIQUES POUR TRAITER DES TROUBLES NEUROLOGIQUES</p> <p>[72] AMAL, HAITHAM, IL [72] DOMB, ABRAHAM JACOB, IL [71] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD., IL [85] 2023-11-03 [86] 2022-05-10 (PCT/IL2022/050486) [87] (WO2022/239001) [30] US (63/186,389) 2021-05-10</p>
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<p>[21] 3,217,974 [13] A1</p> <p>[51] Int.Cl. F24F 13/068 (2006.01)</p> <p>[25] EN</p> <p>[54] RAISED VENTILATION FLOORING STRUCTURE</p> <p>[54] STRUCTURE DE REVETEMENT DE SOL A VENTILATION ELEVEE</p> <p>[72] VROEGE, NORBERT PETER, NL</p> <p>[72] KAPPELHOFF, ROGIER, NL</p> <p>[71] GOFLOW TECHNOLOGY IP B.V., NL</p> <p>[85] 2023-11-03</p> <p>[86] 2022-05-02 (PCT/NL2022/050240)</p> <p>[87] (WO2022/235157)</p> <p>[30] NL (2028139) 2021-05-04</p>
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<p>[21] 3,217,969 [13] A1</p> <p>[25] EN</p> <p>[54] NICOTINAMIDE ADENINE DINUCLEOTIDE (NAD) COMPOSITIONS, METHODS OF MANUFACTURING THEREOF, AND METHODS OF USE THEREOF</p> <p>[54] COMPOSITIONS DE NICOTINAMIDE ADENINE DINUCLEOTIDE (NAD), LEURS PROCEDES DE FABRICATION ET LEURS PROCEDES D'UTILISATION</p> <p>[72] HOLZMEISTER, JOHANNES, CH [72] ERLE, HANNS-EBERHARD, CH [71] SOVIDA SOLUTIONS LTD., GB [85] 2023-11-03 [86] 2022-01-19 (PCT/IB2022/000021) [87] (WO2022/234336) [30] US (63/183,174) 2021-05-04</p>
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<p>[21] 3,217,973 [13] A1</p> <p>[51] Int.Cl. A61K 8/49 (2006.01) A61K 31/05 (2006.01) A61K 31/353 (2006.01) A61P 17/16 (2006.01) C07C 39/23 (2006.01) C07D 311/30 (2006.01) C07D 311/62 (2006.01)</p> <p>[25] EN</p> <p>[54] TOPICAL LIPOSOME POLYPHENOL COMPOSITIONS FOR TREATING AND PREVENTING VARIOUS SKIN DISORDERS AND METHODS OF PREPARATION THEREOF</p>
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<p>[21] 3,217,976 [13] A1</p> <p>[25] EN</p> <p>[54] HAPTIC HAND CONTROLLER SYSTEM FOR MIXED REALITY</p> <p>[54] SYSTEME DE COMMANDE MANUELLE HAPTIQUE POUR LA REALITE MIXTE</p> <p>[72] SALADA, MARK A., US [71] DISTAL REALITY LLC, US [85] 2023-11-03 [86] 2022-05-03 (PCT/US2022/027537) [87] (WO2022/235719) [30] US (63/183,602) 2021-05-03</p>
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[21] 3,217,977  
[13] A1

[51] Int.Cl. C09K 8/62 (2006.01) E21B  
47/113 (2012.01)  
[25] EN  
[54] FRACTURING METHODS USING TAGGED POLYMERS  
[54] PROCEDES DE FRACTURATION UTILISANT DES POLYMERES MARQUES  
[72] HESAMPOUR, MEHRDAD, FI  
[72] NUUTINEN, VESA, FI  
[72] KARESOJA, MIKKO, FI  
[72] TELLAKULA, ROOPA, US  
[72] GRIFFIN, RICK, US  
[72] SHEPHERD, JUSTIN, US  
[72] HENDERSON, PAULA, US  
[72] METSALA, ERKKI, FI  
[72] KUKKONEN, VIKTOR, FI  
[71] KEMIRA OYJ, FI  
[85] 2023-11-03  
[86] 2022-06-01 (PCT/US2022/031809)  
[87] (WO2022/256429)  
[30] US (63/195,350) 2021-06-01  
[30] US (63/365,177) 2022-05-23

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[21] 3,217,978  
[13] A1

[51] Int.Cl. H01F 30/04 (2006.01) H01F  
30/12 (2006.01) H01F 30/14 (2006.01)  
[25] EN  
[54] ASYMMETRIC DELTA MULTI-PULSE TRANSFORMER RECTIFIER UNIT, AND ASSOCIATED SYSTEMS AND METHODS  
[54] UNITE REDRESSEUR DE TRANSFORMATEUR A IMPULSIONS MULTIPLES DELTA ASYMETRIQUE ET SYSTEMES ET PROCEDES ASSOCIES  
[72] STEPHENSON, RANDY, US  
[72] SITTON, TRAVIS, US  
[72] ROCHE, PATRICK, US  
[71] ELDEC AEROSPACE CORPORATION, US  
[85] 2023-11-03  
[86] 2022-05-06 (PCT/US2022/028159)  
[87] (WO2022/236114)  
[30] US (63/185,520) 2021-05-07

[21] 3,217,979  
[13] A1

[51] Int.Cl. A62B 35/00 (2006.01) F16B  
45/00 (2006.01) F16B 45/02 (2006.01)  
F16G 17/00 (2006.01) F16M 13/02  
(2006.01)  
[25] EN  
[54] SYSTEMS AND METHODS FOR A DUAL HOOK FLAT STRAP ATTACHMENT DEVICE  
[54] SYSTEMES ET PROCEDES SERVANT A UN DISPOSITIF DE FIXATION DE SANGLE PLATE A DOUBLE CROCHET  
[72] SEADER, REX, US  
[71] NITE IZE, INC., US  
[85] 2023-11-03  
[86] 2022-04-25 (PCT/US2022/071900)  
[87] (WO2022/236229)  
[30] US (17/307,807) 2021-05-04

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[21] 3,217,980  
[13] A1

[51] Int.Cl. B63B 21/27 (2006.01) B63B  
21/26 (2006.01) E02D 27/50 (2006.01)  
E02D 27/52 (2006.01)  
[25] EN  
[54] FOOT PAD FOR SUBMERGED MACHINERY  
[54] TALON POUR MACHINE IMMERGEE  
[72] AKERS, RICHARD H., US  
[72] LANDON, MELISSA E., US  
[71] STATIONKEEP LLC, US  
[85] 2023-11-03  
[86] 2022-05-06 (PCT/US2022/028204)  
[87] (WO2022/236143)  
[30] US (63/185,549) 2021-05-07  
[30] US (63/225,638) 2021-07-26

[21] 3,217,981  
[13] A1

[51] Int.Cl. A61K 47/65 (2017.01) A61K  
51/04 (2006.01) A61K 51/08 (2006.01)  
[25] EN  
[54] FOLATE RECEPTOR-TARGETED CONJUGATES WITH BRUSH BORDER MEMBRANE ENZYME-CLEAVABLE LINKERS AND METHODS OF USE IN IMAGING AND TREATING CANCER  
[54] CONJUGUES CIBLES CONTRE DES RECEPTEURS DE FOLATE AVEC DES LIEUX CLIVABLES PAR ENZYME DE MEMBRANE DE BORDURE EN BROSSE ET METHODES D'UTILISATION DANS L'IMAGERIE ET LE TRAITEMENT DU CANCER  
[72] LOW, PHILIP, US  
[72] SRINIVASARAO, MADDURI, US  
[72] LINDEMAN, SPENCER, US  
[72] GARDEEN, SPENCER, US  
[71] PURDUE RESEARCH FOUNDATION, US  
[85] 2023-11-03  
[86] 2022-05-13 (PCT/US2022/029292)  
[87] (WO2022/241279)  
[30] US (63/188,910) 2021-05-14  
[30] US (63/318,463) 2022-03-10

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[13] A1

[51] Int.Cl. A61K 31/4355 (2006.01) A61K 31/4439 (2006.01) A61K 31/454 (2006.01) A61K 31/5377 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 491/048 (2006.01) C07D 491/107 (2006.01) C07D 495/04 (2006.01) C07D 498/04 (2006.01) C07F 9/53 (2006.01)

[25] EN  
[54] **POLO LIKE KINASE 4 INHIBITORS**  
[54] **INHIBITEURS DE KINASE DE TYPE POLO 4**

[72] NDUBAKU, CHUDI, US  
[72] MOORE, JARED THOMAS, US  
[72] GIBBONS, PAUL ANTHONY, US  
[72] CHANG, JAE HYUK, US  
[72] ROMERO, F. ANTHONY, US  
[72] DU, XIAOHUI, US  
[72] KAWAI, HIROYUKI, US  
[72] CIBLAT, STEPHANE, US  
[72] WANG, HONG, US  
[72] ALBERT, VINCENT, US  
[72] CONSTANTINEAU-FORGET, LEA, US  
[72] SILVA, HUGO DE ALMEIDA, US  
[72] POLAT, DILAN EMIN, US  
[72] NAYYAR, AMIT, US  
[72] SHORE, DANIEL GORDON MICHAEL, US  
[72] WU, KEJIA, US  
[72] TAN, JOANNE, US  
[71] ORIC PHARMACEUTICALS, INC., US  
[85] 2023-11-03  
[86] 2022-05-10 (PCT/US2022/028594)  
[87] (WO2022/240876)  
[30] US (63/187,049) 2021-05-11  
[30] US (63/249,809) 2021-09-29  
[30] US (63/317,174) 2022-03-07  
[30] US (63/337,445) 2022-05-02

[21] **3,217,984**  
[13] A1

[51] Int.Cl. E01H 1/02 (2006.01) E01H 1/04 (2006.01) E01H 1/05 (2006.01) E01H 1/08 (2006.01)  
[25] EN  
[54] **AUTOMATIC SIDE BROOM STRIKE PATTERN POSITIONING SYSTEM FOR A STREET SWEEPING MACHINE**  
[54] **SYSTEME DE POSITIONNEMENT DE MOTIF DE FRAPPE DE BALAI LATERAL AUTOMATIQUE POUR UNE BALAYEUSE DE RUE**

[72] GILES, BRIAN D., US  
[72] ROBERSON, ALSTON, US  
[72] CRUNK, FELIX W. III, US  
[72] HOWLEY, SEAN E., US  
[71] SCHWARZE INDUSTRIES LLC, US  
[85] 2023-11-03  
[86] 2022-05-04 (PCT/US2022/027710)  
[87] (WO2022/235828)  
[30] US (63/183,875) 2021-05-04  
[30] US (17/736,884) 2022-05-04

[21] **3,217,987**  
[13] A1

[25] EN  
[54] **MACHINE AND METHOD FOR COOKING FOOD**  
[54] **MACHINE ET PROCEDE DE CUISSON D'ALIMENTS**  
[72] RANA, GIAN LUCA, IT  
[71] PASTIFICIO RANA S.P.A., IT  
[85] 2023-11-03  
[86] 2022-05-11 (PCT/IB2022/054380)  
[87] (WO2022/238922)  
[30] IT (102021000012206) 2021-05-12

[21] **3,217,988**  
[13] A1

[51] Int.Cl. A61L 9/20 (2006.01)  
[25] EN  
[54] **DEVICE FOR DISINFECTING AN AIR FLOW VIA UV-C RADIATION AND ASSISTED VENTILATION SYSTEM COMPRISING SUCH A DEVICE**  
[54] **DISPOSITIF POUR DESINFECTER D'UN FLUX D'AIR PAR L'INTERMEDIAIRE D'UN RAYONNEMENT UV-C ET SYSTEME DE VENTILATION ASSISTEE COMPRENANT UN TEL DISPOSITIF**

[72] LOMBINI, MATTEO, IT  
[72] ZANUTTA, ALESSIO, IT  
[72] BIANCO, ANDREA, IT  
[72] LESSIO, LUIGI, IT  
[72] CORTECCHIA, FAUSTO, IT  
[72] MALAGUTI, GIUSEPPE, IT  
[72] PARESCHI, GIOVANNI, IT  
[72] DIOLAITI, EMILIANO, IT  
[72] DE ROSA, ADRIANO, IT  
[71] ISTITUTO NAZIONALE DI ASTROFISICA, IT  
[85] 2023-11-03  
[86] 2022-05-06 (PCT/IB2022/054193)  
[87] (WO2022/234527)  
[30] IT (102021000011783) 2021-05-07

[21] **3,217,985**  
[13] A1

[25] EN  
[54] **RADIO FREQUENCY FLUID WARMER AND METHOD**  
[54] **RECHAUFFEUR DE FLUIDE RADIOFRÉQUENCE ET PROCEDE**

[72] KHANIFAR, AHMAD, US  
[72] KHANIFAR, ELHAM, US  
[71] ADVANCED MEDICAL DEVICE TECHNOLOGIES, INC., US  
[85] 2023-11-03  
[86] 2021-12-08 (PCT/US2021/062348)  
[87] (WO2022/197337)  
[30] US (17/202,097) 2021-03-15

[21] **3,217,986**  
[13] A1

[25] EN  
[54] **AGRICULTURAL ALARM SYSTEM WITH GEOFENCE FEATURES**  
[54] **SYSTEME D'ALARME AGRICOLE AYANT DES CARACTERISTIQUES DE PERIMETRE VIRTUEL**

[72] HANSEN, MICHAEL, US  
[71] BARNTTOOLS, LLC, US  
[85] 2023-11-03  
[86] 2022-05-04 (PCT/US2022/027633)  
[87] (WO2022/235767)  
[30] US (63/201,549) 2021-05-04

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[51] Int.Cl. G06Q 30/0283 (2023.01) G06N  
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(2023.01)

[25] EN

[54] AUTOMATED QUOTE  
GENERATION AND ORDER  
MANAGEMENT FOR BUILDING  
PRODUCTS USING MACHINE  
LEARNING

[54] GENERATION AUTOMATISEE DE  
DEVIS ET GESTION DE  
COMMANDES POUR DES  
PRODUITS DE CONSTRUCTION A  
L'AIDE D'UN APPRENTISSAGE  
AUTOMATIQUE

[72] BRYANT, GRAHAM, US

[72] ESTRADA, ELIANA, US

[72] GANDAVARAPU, SASANKA, US

[72] JONES, SCOTT, US

[72] KLEKAMP, DAVE, US

[72] LOCKWOOD, ALEX, US

[72] MONICK, VARSHA, US

[72] MOSS, JON, US

[72] PENDERGRAFT, DADE, US

[72] RAMASAMY, KARTHIKEYAN, US

[72] SHAH, ROSHAN, US

[71] GP BUILDING PRODUCTS  
SERVICES LLC, US

[85] 2023-11-03

[86] 2022-05-05 (PCT/IB2022/054166)

[87] (WO2022/238823)

[30] US (63/188,613) 2021-05-14

[30] US (63/337,322) 2022-05-02

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**[21] 3,217,990**

[13] A1

[51] Int.Cl. B01D 1/04 (2006.01)

[25] EN

[54] SYSTEMS AND METHODS FOR  
TREATMENT OF MATERIALS

[54] SYSTEMES ET PROCEDES DE  
TRAITEMENT DE MATERIAUX

[72] MASON, J. BRADLEY, US

[71] MASON, J. BRADLEY, US

[85] 2023-11-05

[86] 2022-05-05 (PCT/US2022/027938)

[87] (WO2022/235981)

[30] US (63/185,247) 2021-05-06

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[13] A1

[51] Int.Cl. C09D 11/033 (2014.01) C09D  
11/101 (2014.01) C09D 11/30  
(2014.01)

[25] EN

[54] CONTROLLING THE SIZE OF 3D  
PRINTING HYDROGEL OBJECTS  
USING HYDROPHILIC  
MONOMERS, HYDROPHOBIC  
MONOMERS, AND  
CROSSLINKERS

[54] AJUSTEMENT DE LA TAILLE  
D'OBJETS EN HYDROGEL  
IMPRIMES EN 3D A L'AIDE DE  
MONOMERES HYDROPHILES,  
DE MONOMERES  
HYDROPHOBES ET D'AGENTS  
DE RETICULATION

[72] KAUR, AMAN, US

[72] ARIAS, ISABEL, US

[72] NSIAH, BARBARA, US

[72] ALVAREZ, LUIS, US

[71] LUNG BIOTECHNOLOGY PBC, US

[85] 2023-11-06

[86] 2022-05-06 (PCT/US2022/028039)

[87] (WO2022/236030)

[30] US (63/185,300) 2021-05-06

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**[21] 3,217,992**

[13] A1

[51] Int.Cl. A61L 27/18 (2006.01) A61L  
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[25] EN

[54] MICROPHYSIOLOGICAL 3-D  
PRINTING AND ITS  
APPLICATIONS

[54] IMPRESSION 3D  
MICROPHYSIOLOGIQUE ET SES  
APPLICATIONS

[72] MODARESIFAR, MASOUD, US

[72] SAFAVIEH, MOHAMMADALI, US

[72] PRAKASH, KEERTHANA, US

[72] HURST, GREG, US

[72] BACKMAN, DANIEL E., US

[72] MORRIS, DEREK, US

[72] KHALILPOUR, AKBAR, US

[72] DUFFY, REBECCA, US

[72] KAUR, AMAN, US

[72] ARIAS, ISABEL, US

[72] NSIAH, BARBARA, US

[72] ALVAREZ, LUIS, US

[71] LUNG BIOTECHNOLOGY PBC, US

[85] 2023-11-06

[86] 2022-05-06 (PCT/US2022/028165)

[87] (WO2022/236119)

[30] US (63/185,298) 2021-05-06

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**[21] 3,217,993**

[13] A1

[51] Int.Cl. A61L 27/26 (2006.01) A61L  
27/36 (2006.01) A61L 27/38 (2006.01)

[25] EN

[54] MODIFIED 3D-PRINTED OBJECTS  
AND THEIR USES

[54] OBJETS IMPRIMES EN 3D  
MODIFIES ET LEURS  
UTILISATIONS

[72] KING, JAMIE, US

[72] NSIAH, BARBARA, US

[72] DUFFY, REBECCA, US

[72] KAUR, AMAN, US

[72] ALVAREZ, LUIS, US

[71] LUNG BIOTECHNOLOGY PBC, US

[85] 2023-11-06

[86] 2022-05-06 (PCT/US2022/028161)

[87] (WO2022/236116)

[30] US (63/185,302) 2021-05-06

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**[21] 3,217,994**

[13] A1

[51] Int.Cl. H04L 12/18 (2006.01)

[25] EN

[54] NETWORK PROTOCOL FOR  
BATTERY POWERED DEVICES  
WITHIN A WIRELESS NETWORK

[54] PROTOCOLE DE RESEAU POUR  
DISPOSITIFS ALIMENTES PAR  
BATTERIE AU SEIN D'UN  
RESEAU SANS FIL

[72] UHLING, THOMAS F., US

[72] BARNES, KEITH WAYNE, US

[72] BRACE, HOWARD NEAL, US

[72] JAMIL, IMAD, US

[72] MONIER, FABRICE, US

[71] ITRON, INC., US

[85] 2023-10-24

[86] 2022-04-27 (PCT/US2022/026585)

[87] (WO2022/232306)

[30] US (17/245,420) 2021-04-30

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- [51] Int.Cl. A62B 18/00 (2006.01) A62B 18/02 (2006.01) A62B 18/04 (2006.01) A62B 18/08 (2006.01) A62B 18/10 (2006.01)
  - [25] EN
  - [54] REUSABLE PURIFIED AIR BREATHING DEVICE
  - [54] DISPOSITIF RESPIRATOIRE A AIR PURIFIÉ REUTILISABLE
  - [72] PEZESHKI, REZA, US
  - [71] PEZESHKI, REZA, US
  - [85] 2023-10-25
  - [86] 2022-05-24 (PCT/US2022/030764)
  - [87] (WO2022/251246)
  - [30] US (63/192,575) 2021-05-25
  - [30] US (63/315,686) 2022-03-02
  - [30] US (17/751,216) 2022-05-23
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- [51] Int.Cl. A61P 35/00 (2006.01) A61P 35/02 (2006.01) C12N 9/22 (2006.01) C12N 15/63 (2006.01) C12N 15/86 (2006.01)
- [25] EN
- [54] SEQUENTIAL ELECTROPORATION METHODS
- [54] PROCEDES D'ELECTROPORATION SEQUENTIELLE
- [72] ACHARYA, DIWASH, US
- [72] BRADY, JAMES, US
- [71] MAXCYTE, INC., US
- [85] 2023-10-25
- [86] 2022-04-27 (PCT/US2022/071958)
- [87] (WO2022/232802)
- [30] US (63/181,583) 2021-04-29

**[21] 3,217,997**  
[13] A1

- [51] Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) C07D 317/44 (2006.01) C07D 317/70 (2006.01) C07D 491/22 (2006.01)
  - [25] EN
  - [54] ANTI-C-MET ANTIBODY DRUG CONJUGATES
  - [54] CONJUGUES ANTICORPS-MEDICAMENT ANTI-C-MET
  - [72] PHILLIPS, ANDREW C., US
  - [72] REILLY, REGINA M., US
  - [72] DOHERTY, GEORGE A., US
  - [72] JI, CHENG, US
  - [72] BRUNCKO, MILAN, US
  - [72] BOGHAERT, ERWIN R., US
  - [72] ANDERSON, MARK, US
  - [71] ABBVIE INC., US
  - [85] 2023-10-25
  - [86] 2022-04-29 (PCT/US2022/072008)
  - [87] (WO2022/232834)
  - [30] US (63/181,963) 2021-04-29
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[13] A1

- [51] Int.Cl. A61F 2/00 (2006.01) G06Q 40/04 (2012.01) A61F 2/24 (2006.01) A61L 27/36 (2006.01)
- [25] EN
- [54] SYSTEMS AND METHODS FOR RECONSTRUCTING AN ANATOMICAL STRUCTURE MODEL
- [54] SYSTEMES ET PROCEDES DE RECONSTRUCTION D'UN MODELE DE STRUCTURE ANATOMIQUE
- [72] DASI, LAKSHMI PRASAD, US
- [72] CHEN, HUANG, US
- [72] LEE, BEOM JUN, US
- [72] SIVAKUMAR, SRI KRISHNA, US
- [72] YEATS, BREANDAN ANDRE BUTLER, US
- [71] OHIO STATE INNOVATION FOUNDATION, US
- [71] GEORGIA TECH RESEARCH CORPORATION, US
- [85] 2023-10-25
- [86] 2022-05-11 (PCT/US2022/072240)
- [87] (WO2022/241425)
- [30] US (63/187,052) 2021-05-11

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[13] A1

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  - [25] EN
  - [54] COMPOSITIONS OF GROWTH FACTOR FOR THE TREATMENT OF EYE DISEASE
  - [54] COMPOSITIONS DE FACTEUR DE CROISSANCE POUR LE TRAITEMENT D'UNE MALADIE OCULAIRE
  - [72] BRYLA, PIOTR, US
  - [72] ORR, SUSAN C., US
  - [72] ATWELL, A. CLARKE, US
  - [71] CLARIS BIOTHERAPEUTICS, INC., US
  - [85] 2023-10-25
  - [86] 2022-05-13 (PCT/US2022/072302)
  - [87] (WO2022/241465)
  - [30] US (63/188,816) 2021-05-14
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[13] A1

- [51] Int.Cl. A61K 9/00 (2006.01) A61K 47/02 (2006.01)
- [25] EN
- [54] CONTAINERS WITH SELECTIVE DISSOLVED GAS CONTENT
- [54] RECIPIENTS A TENEUR EN GAZ DISSOUS SELECTIVE
- [72] DESBROSSES, FREDDY, BE
- [72] PADULA, PIERPAOLO, BE
- [72] DUPONT, CAROLINE ROSELYNE, BE
- [72] DEMULIER, MARIN ANH-THUAN, BE
- [72] BOUREZG, ZOUAOUI, BE
- [71] BAXTER INTERNATIONAL INC., US
- [85] 2023-10-25
- [86] 2022-05-23 (PCT/US2022/072505)
- [87] (WO2022/251810)
- [30] US (17/330,070) 2021-05-25

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<p style="text-align: right;"><b>[21] 3,218,004</b> [13] A1</p> <p>[51] Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6886 (2018.01) A61K 31/497 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 413/04 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C12Q 1/68 (2018.01) [25] EN [54] METHODS OF TREATING CANCERS HAVING A BIALLELIC LOSS OF FUNCTION OR GENE OVEREXPRESSION MUTATION [54] METHODES DE TRAITEMENT DES CANCERS COMPORTEANT UNE MUTATION BIALLELIQUE DE PERTE DE FONCTION OU DE SUREXPRESSION GENIQUE [72] REIS, JORGE SERGIO, CA [72] KOEHLER, MARIA, CA [72] RIMKUNAS, VICTORIA, CA [72] GLODZIK, DOMINIK, CA [72] ZINDA, MICHAEL, CA [72] DABER, ROBERT, US [72] SILVERMAN, IAN, CA [71] REPARSE THERAPEUTICS INC., CA [85] 2023-10-26 [86] 2022-04-28 (PCT/CA2022/050655) [87] (WO2022/226655) [30] US (63/180,741) 2021-04-28 [30] US (63/278,585) 2021-11-12</p>	<p style="text-align: right;"><b>[21] 3,218,006</b> [13] A1</p> <p>[51] Int.Cl. C08G 65/22 (2006.01) A61K 47/60 (2017.01) C08G 65/33 (2006.01) [25] EN [54] POLY(ETHYLENE GLYCOL) HAVING C1 TO C3-ALKYLOXYMETHYL SIDE CHAINS, BIOCONJUGATES THEREOF, PROCESS FOR ITS PREPARATION AND ITS USE [54] POLY(ETHYLENE GLYCOL) AYANT DES CHAINES LATERALES ALKYLOXYMETHYLES CL A C3, BIOCONJUGUES ASSOCIES, PROCEDE POUR SA PREPARATION ET SON UTILISATION [72] FREY, HOLGER, DE [72] MATTHES, REBECCA, DE [72] DREIER, PHILIP, DE [71] JOHANNES GUTENBERG-UNIVERSITAT MAINZ, DE [85] 2023-10-26 [86] 2022-05-12 (PCT/EP2022/062896) [87] (WO2022/238532) [30] EP (21173944.6) 2021-05-14</p>	<p style="text-align: right;"><b>[21] 3,218,010</b> [13] A1</p> <p>[51] Int.Cl. C12N 15/11 (2006.01) C12N 15/113 (2010.01) [25] EN [54] NOVEL CRISPR GRNAS [54] NOUVEAUX ARNG CRISPR [72] RIESENBERG, STEPHAN, DE [72] MARICIC, TOMISLAV, DE [72] HEMBRECHT, NELLY, DE [71] MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V., DE [85] 2023-10-26 [86] 2022-05-24 (PCT/EP2022/064019) [87] (WO2022/248454) [30] EP (21176366.9) 2021-05-27</p>
<p style="text-align: right;"><b>[21] 3,218,011</b> [13] A1</p> <p>[51] Int.Cl. C07D 403/04 (2006.01) A61K 31/404 (2006.01) A61K 31/4155 (2006.01) A61K 31/422 (2006.01) A61K 31/4439 (2006.01) A61P 19/06 (2006.01) C07D 401/04 (2006.01) C07D 409/04 (2006.01) [25] FR [54] UN INHIBITEUR DE XANTHINE OXYDASE [54] A XANTHINE OXIDASE INHIBITOR [72] SHI, DONGFANG, CN [72] FU, CHANGJIN, CN [72] YANG, YAN, CN [71] JIANGSU ATOM BIOSCIENCE AND PHARMACEUTICAL CO., LTD., CN [85] 2023-10-26 [86] 2022-04-28 (PCT/CN2022/089979) [87] (WO2022/233264) [30] CN (202110493446.2) 2021-05-07</p>		

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[13] A1

- [51] Int.Cl. H04R 3/00 (2006.01) H04R 1/40 (2006.01) H04R 5/04 (2006.01) H04R 3/12 (2006.01) H04R 5/027 (2006.01) H04R 25/00 (2006.01)
  - [25] EN
  - [54] A METHOD AND SYSTEM FOR DIRECTIONAL PROCESSING OF AUDIO INFORMATION
  - [54] PROCEDE ET SYSTEME DE TRAITEMENT DIRECTIONNEL D'INFORMATIONS AUDIO
  - [72] SINGLETON, GREGORY, GB
  - [72] GLASSON, PHILLIP HENRY, GB
  - [71] THE SECRETARY OF STATE FOR DEFENCE, GB
  - [85] 2023-10-26
  - [86] 2022-04-20 (PCT/IB2022/053711)
  - [87] (WO2022/229797)
  - [30] GB (2106094.2) 2021-04-29
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**[21] 3,218,015**

[13] A1

- [51] Int.Cl. A61K 31/4184 (2006.01) A61P 21/00 (2006.01) A61P 43/00 (2006.01)
  - [25] EN
  - [54] KL1333 FOR USE IN MEDICINE
  - [54] KL1333 DESTINE A ETRE UTILISE EN MEDECINE
  - [72] HANSSON, MAGNUS JOAKIM, SE
  - [72] HUGERTH, MATILDA, SE
  - [72] GRONBERG, ALVAR, SE
  - [71] ABLIVA AB, SE
  - [71] YUNGJIN PHARM CO., LTD, KR
  - [85] 2023-10-26
  - [86] 2022-05-19 (PCT/EP2022/063583)
  - [87] (WO2022/243435)
  - [30] DK (PA202170253) 2021-05-19
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**[21] 3,218,016**

[13] A1

- [51] Int.Cl. G06F 3/16 (2006.01)
  - [25] EN
  - [54] SYSTEMS AND METHODS TO ALTER VOICE INTERACTIONS
  - [54] SYSTEMES ET PROCEDES POUR MODIFIER DES INTERACTIONS VOCALES
  - [72] AHER, ANKUR ANIL, IN
  - [72] ROBERT JOSE, JEFFRY COPPS, IN
  - [72] HARB, REDA, US
  - [71] ROVI GUIDES, INC., US
  - [85] 2023-10-26
  - [86] 2021-12-13 (PCT/US2021/063100)
  - [87] (WO2022/231659)
  - [30] US (17/244,656) 2021-04-29
  - [30] US (17/244,659) 2021-04-29
  - [30] US (17/244,663) 2021-04-29
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**[21] 3,218,017**

[13] A1

- [51] Int.Cl. A47C 1/032 (2006.01)
  - [25] EN
  - [54] ADAPTABLE SEAT
  - [54] SIEGE ADAPTABLE
  - [72] BERTOLINI, EMANUELE, IT
  - [72] SCAGNELLATO, PAOLO, IT
  - [72] FERRARESE, JEREMIAH, IT
  - [71] OMP S.R.L., IT
  - [85] 2023-10-26
  - [86] 2022-04-28 (PCT/IB2022/053963)
  - [87] (WO2022/229901)
  - [30] IT (102021000010778) 2021-04-28
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[13] A1

- [51] Int.Cl. C07D 491/048 (2006.01) A61K 31/4162 (2006.01) A61P 3/10 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01)

[25] EN

- [54] FUROINDAZOLE DERIVATIVES AS ANTAGONISTS OR INHIBITORS OF GPR84

- [54] DERIVES DE FUROINDAZOLE UTILISES COMME ANTAGONISTES OU INHIBITEURS DE GPR84

- [72] PANKNIN, OLAF, DE
- [72] SACHER, FRANK, DE
- [72] LANGER, GERNOT, DE
- [72] NOWAK-REPPEL, KATRIN, DE
- [72] NUBBEMEYER, REINHARD, DE
- [72] PILARI, SABINE, DE
- [72] ROTTMANN, ANTJE, DE
- [72] SIEBENEICHER, HOLGER, DE
- [71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2023-10-26

[86] 2022-04-25 (PCT/EP2022/060833)

[87] (WO2022/229061)

[30] EP (21171084.3) 2021-04-29

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**[21] 3,218,019**

[13] A1

- [51] Int.Cl. H04M 1/02 (2006.01) H04M 1/21 (2006.01)
  - [25] EN
  - [54] OPERATION OF AN ELECTRONIC DEVICE AS A WEB CAMERA
  - [54] FONCTIONNEMENT D'UN DISPOSITIF ELECTRONIQUE EN TANT QUE CAMERA WEB
  - [72] GAGNE-KEATS, JASON SEAN, US
  - [72] EVANS V, DAVID JOHN, US
  - [72] THEOU, JEAN-BAPTISTE CHARLES, US
  - [72] ANDERSON, GARY, US
  - [72] BISSON, GARY, US
  - [72] FRANCO, NICHOLAS, US
  - [71] OSOM PRODUCTS, INC., US
  - [85] 2023-10-26
  - [86] 2022-04-27 (PCT/US2022/071961)
  - [87] (WO2022/232805)
  - [30] US (63/180,551) 2021-04-27
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**[21] 3,218,021**

[13] A1

- [51] Int.Cl. C12M 1/00 (2006.01) C12M 3/00 (2006.01) F16K 99/00 (2006.01)
  - [25] EN
  - [54] RECONFIGURABLE BIOPROCESSING SYSTEM
  - [54] SYSTEME DE BIOTRAITEMENT RECONFIGURABLE
  - [72] LUNDIN, ANDREAS, SE
  - [72] RIMMO, MATS, SE
  - [71] CYTIVA SWEDEN AB, SE
  - [85] 2023-10-26
  - [86] 2022-04-25 (PCT/EP2022/060892)
  - [87] (WO2022/229098)
  - [30] GB (2105909.2) 2021-04-26
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[13] A1

- [51] Int.Cl. B22F 9/08 (2006.01)
- [25] EN
- [54] GAS ATOMIZER
- [54] ATOMISEUR DE GAZ
- [72] BOISSIERE, BENJAMIN, FR
- [71] ARCELORMITTAL, LU
- [85] 2023-10-17
- [86] 2022-04-26 (PCT/IB2022/053843)
- [87] (WO2022/229829)
- [30] IB (PCT/IB2021/053518) 2021-04-28

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**[21] 3,218,027**  
[13] A1

[51] Int.Cl. B01F 23/236 (2022.01) B01F 23/2361 (2022.01)  
[25] EN  
[54] CARBONATION MACHINE WITH ROTATABLE CARBONATION HEAD  
[54] MACHINE DE CARBONATATION AVEC TETE DE CARBONATATION ROTATIVE  
[72] SHALEV, OREN, IL  
[72] COHEN, AVI, IL  
[72] BURSAK, MICHAEL, IL  
[72] RING, ALLAN, IL  
[72] HARDUFF, HAGAI, IL  
[72] KROM, DORON, IL  
[72] SHMUELI, EYAL, IL  
[72] TSINZOVSKY, MICHAEL, IL  
[71] SODASTREAM INDUSTRIES LTD., IL  
[85] 2023-11-06  
[86] 2022-05-15 (PCT/IL2022/050505)  
[87] (WO2022/259235)  
[30] US (17/340,092) 2021-06-07

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**[21] 3,218,028**  
[13] A1

[51] Int.Cl. F16L 1/06 (2006.01) F16L 57/00 (2006.01)  
[25] EN  
[54] REINFORCED CONCRETE PROTECTIVE COVER FOR CIRCUMFERENTIAL SURROUND OF PIPELINES AND METHODS  
[54] REVETEMENT DE PROTECTION EN BETON ARME DESTINE A L'ENTOURAGE CIRCONFERENTIEL DE CANALISATIONS ET PROCEDES  
[72] SCALES, JOHN M., US  
[71] SYNTHETEX, LLC, US  
[85] 2023-10-26  
[86] 2022-04-25 (PCT/US2022/026168)  
[87] (WO2022/232040)  
[30] US (63/179,649) 2021-04-26

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**[21] 3,218,029**  
[13] A1

[51] Int.Cl. C25B 1/01 (2021.01) C25B 9/19 (2021.01) C25B 11/042 (2021.01) C25B 11/043 (2021.01) B01J 31/22 (2006.01) C01C 1/04 (2006.01) C25B 1/24 (2021.01) C25B 9/00 (2021.01) C25B 13/04 (2021.01)  
[25] EN  
[54] APPARATUS FOR MANUFACTURING NITROGEN-CONTAINING COMPOUND AND METHOD FOR MANUFACTURING NITROGEN-CONTAINING COMPOUND  
[54] APPAREIL ET PROCEDE DE FABRICATION D'UN COMPOSE CONTENANT DE L'AZOTE  
[72] SHINOHARA, YUKI, JP  
[72] KAKINUMA, TAKAHIRO, JP  
[72] SAKAKURA, TATSUYA, JP  
[71] IDEMITSU KOSAN CO.,LTD., JP  
[85] 2023-10-26  
[86] 2022-04-26 (PCT/JP2022/018931)  
[87] (WO2022/230896)  
[30] JP (2021-075354) 2021-04-27

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**[21] 3,218,031**  
[13] A1

[51] Int.Cl. C12N 15/867 (2006.01) A61K 48/00 (2006.01) A61P 1/16 (2006.01) C12N 9/10 (2006.01)  
[25] EN  
[54] IN VIVO LENTIVIRAL GENE THERAPY FOR THE TREATMENT OF PRIMARY HYPEROXALURIA TYPE 1  
[54] THERAPIE GENIQUE LENTIVIRALE IN VIVO POUR LE TRAITEMENT DE L'HYPEROXALURIE PRIMAIRE DE TYPE 1  
[72] SEGOVIA SANZ, JOSE CARLOS, ES  
[72] GARCIA BRAVO, MARIA, ES  
[72] MOLINOS VICENTE, ANDREA, ES  
[72] GARCIA TORRALBA, AIDA, ES  
[72] NIETO ROMERO, VIRGINIA, ES  
[71] CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS O.A., M.P., ES  
[71] CONSORCIO CENTRO DE INVESTIGACION BIOMEDICA EN RED, ES  
[71] FUNDACION INSTITUTO DE INVESTIGACION SANITARIA FUNDACION JIMENEZ DIAZ, ES  
[85] 2023-10-26  
[86] 2022-04-26 (PCT/EP2022/061107)  
[87] (WO2022/229223)  
[30] EP (21382363.6) 2021-04-26

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**[21] 3,218,032**  
[13] A1

[51] Int.Cl. F16L 55/26 (2006.01)  
[25] EN  
[54] INVERSION LINER ASSIST ADAPTER  
[54] ADAPTATEUR D'ASSISTANCE DE COLONNE D'INVERSION  
[72] FAST, RICHARD ANDREW, US  
[72] FINNELL, CHRISTOPHER MARK, US  
[71] FAST RESTORATION LLC, US  
[85] 2023-10-26  
[86] 2022-04-26 (PCT/US2022/026324)  
[87] (WO2022/232128)  
[30] US (17/241,189) 2021-04-27

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**[21] 3,218,034**

[13] A1

- [51] Int.Cl. C01C 1/04 (2006.01) C25B 1/27 (2021.01) C25B 3/13 (2021.01) C25B 3/25 (2021.01) B01J 31/22 (2006.01) C01B 21/16 (2006.01) C25B 1/24 (2021.01)
- [25] EN
- [54] METHOD FOR PRODUCING NITROGEN-CONTAINING COMPOUND
- [54] PROCEDE DE PRODUCTION D'UN COMPOSE CONTENANT DE L'AZOTE
- [72] SHINOHARA, YUKI, JP
- [72] TOMOTSU, NORIO, JP
- [72] NISHIBAYASHI, YOSHIAKI, JP
- [72] ARASHIBA, KAZUYA, JP
- [71] IDEMITSU KOSAN CO.,LTD., JP
- [71] THE UNIVERSITY OF TOKYO, JP
- [85] 2023-10-26
- [86] 2022-04-26 (PCT/JP2022/018933)
- [87] (WO2022/230898)
- [30] JP (2021-075353) 2021-04-27

**[21] 3,218,035**

[13] A1

- [51] Int.Cl. A61L 29/06 (2006.01) A61L 29/14 (2006.01) A61M 25/10 (2013.01)
- [25] EN
- [54] BALLOON COMPOSITIONS FOR IMPLANT DEPLOYMENT
- [54] COMPOSITIONS DE BALLONNET POUR LE DEPLOIEMENT D'UN IMPLANT
- [72] LEE, JEONG, SOO, US
- [72] CHOW, SEAN, US
- [72] TRAN, TIFFANY, DIEMTRINH, US
- [72] LE, PHU, VINH, US
- [72] SHWED, LYNNE, BOROWSKI, US
- [71] EDWARDS LIFESCIENCES CORPORATION, US
- [85] 2023-10-26
- [86] 2022-04-29 (PCT/US2022/026874)
- [87] (WO2022/235495)
- [30] US (63/184,353) 2021-05-05

**[21] 3,218,037**

[13] A1

- [51] Int.Cl. G16H 50/20 (2018.01) A61B 34/10 (2016.01) A61B 90/00 (2016.01) G16H 20/30 (2018.01) A61B 5/11 (2006.01)
- [25] EN
- [54] AUGMENTED REALITY PATIENT ASSESSMENT MODULE
- [54] MODULE D'EVALUATION DE PATIENT A REALITE AUGMENTEE
- [72] SPOONER, TED, US
- [72] VAN ANDEL, DAVE, US
- [72] PINHEIRO, PAULO ALEXANDRE DA TORRE, US
- [72] BOREKTSIOGLOU, IOANNIS, US
- [71] ZIMMER US, INC., US
- [85] 2023-10-26
- [86] 2022-04-27 (PCT/US2022/026509)
- [87] (WO2022/232250)
- [30] US (63/180,456) 2021-04-27
- [30] US (63/303,683) 2022-01-27

**[21] 3,218,039**

[13] A1

- [51] Int.Cl. A61M 5/28 (2006.01)
- [25] EN
- [54] SYRINGE
- [54] SERINGUE
- [72] YAMANAKA, YUJI, JP
- [72] EGAMI, KIICHI, JP
- [72] HORIKAWA, AYANO, JP
- [72] HORITA, TAIJI, JP
- [72] OGAWA, YUKIHIRO, JP
- [72] TANIGUCHI, KENSUKE, JP
- [72] MIYAGAWA, JUNKI, JP
- [71] TAISEI KAKO CO., LTD., JP
- [71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
- [85] 2023-10-26
- [86] 2022-05-02 (PCT/JP2022/019491)
- [87] (WO2022/231012)
- [30] JP (2021-077468) 2021-04-30

**[21] 3,218,041**

[13] A1

- [51] Int.Cl. A61P 27/02 (2006.01)
- [25] EN
- [54] AAV VIRION ENCODING NEUROTROPHIC FACTOR AND USES THEREOF
- [54] VIRION AAV CODANT POUR LE FACTEUR NEUROTROPHIQUE ET SES UTILISATIONS
- [72] NAU, JEFFREY ALAN, US
- [72] CARLSON, ERIC C., US
- [71] OYSTER POINT PHARMA, INC., US
- [85] 2023-11-06
- [86] 2022-05-04 (PCT/US2022/027647)
- [87] (WO2022/235780)
- [30] US (63/185,889) 2021-05-07

**[21] 3,218,042**

[13] A1

- [51] Int.Cl. C07K 14/705 (2006.01) A61P 9/10 (2006.01) C12Q 1/68 (2018.01) C12N 15/113 (2010.01)
- [25] EN
- [54] TREATMENT OF CEREBROVASCULAR DISEASE WITH NEUROGENIC LOCUS NOTCH HOMOLOG PROTEIN 3 (NOTCH3) AGENTS
- [54] TRAITEMENT D'UNE MALADIE CEREBROVASCULAIRE AVEC DES AGENTS DE PROTEINES 3 D'HOMOLOGUE NOTCH DE LOCUS NEUROGENE (NOTCH3)
- [72] RODRIGUEZ-FLORES, JUAN, US
- [72] SHULDINER, ALAN, US
- [72] BARAS, ARIS, US
- [72] SALEHEEN, DANISH, US
- [72] KHALID, SHAREEF, US
- [71] REGENERON PHARMACEUTICALS, INC., US
- [71] CENTER FOR NON-COMMUNICABLE DISEASES, PK
- [85] 2023-10-26
- [86] 2022-06-01 (PCT/US2022/031756)
- [87] (WO2022/256396)
- [30] US (63/195,970) 2021-06-02

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[13] A1

- [51] Int.Cl. C08L 101/00 (2006.01) C07F 9/145 (2006.01) C08K 5/526 (2006.01) C08L 23/00 (2006.01) C09K 15/32 (2006.01)
  - [25] EN
  - [54] PHOSPHITE COMPOSITION
  - [54] COMPOSITION DE PHOSPHITE
  - [72] ASANO, AYUMI, JP
  - [72] MATSUOKA, FUMIAKI, JP
  - [71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
  - [85] 2023-10-26
  - [86] 2022-05-19 (PCT/JP2022/020831)
  - [87] (WO2022/255116)
  - [30] JP (2021-091430) 2021-05-31
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**[21] 3,218,044**

[13] A1

- [51] Int.Cl. A45C 11/00 (2006.01) H01Q 1/24 (2006.01) H01Q 3/24 (2006.01) H04B 1/00 (2006.01)
  - [25] EN
  - [54] HANDHELD DEVICE CASE WITH ACTIVATABLE SHIELD TO BLOCK WIRELESS SIGNALS
  - [54] BOITIER DE DISPOSITIF PORTATIF AVEC BLINDAGE ACTIVABLE POUR BLOQUER DES SIGNAUX SANS FIL
  - [72] ANDERSON, GARY, US
  - [72] GAGNE-KEATS, JASON SEAN, US
  - [72] EVANS V, DAVID JOHN, US
  - [71] OSOM PRODUCTS, INC., US
  - [85] 2023-10-26
  - [86] 2022-04-27 (PCT/US2022/071963)
  - [87] (WO2022/232807)
  - [30] US (63/180,572) 2021-04-27
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**[21] 3,218,045**

[13] A1

- [25] EN
  - [54] CHASSIS, CONVERTED FOR A BATTERY ELECTRIC VEHICLE
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  - [72] COLLIGNON, PATRICK, US
  - [72] COLLIGNON, MAXELL, US
  - [71] TROVA COMMERCIAL VEHICLES INC., US
  - [85] 2023-11-06
  - [86] 2022-05-05 (PCT/US2022/027844)
  - [87] (WO2022/235913)
  - [30] US (63/184,343) 2021-05-05
  - [30] BE (BE 2021/0050) 2021-07-22
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  - [25] EN
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  - [54] REACTEUR CHIMIQUE A MELANGEURS STATIQUES INTERNES
  - [72] PUSTJENS, RONNY ALBERT MATHIJS, NL
  - [72] VAN DEN TILLAART, JOHAN ALBERT ARNO, NL
  - [71] STAMICARBON B.V., NL
  - [85] 2023-10-26
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  - [25] EN
  - [54] PHOTOCURABLE REINFORCEMENT OF 3D PRINTED HYDROGEL OBJECTS
  - [54] RENFORCEMENT PHOTODURCISSABLE D'OBJETS EN HYDROGEL IMPRIMES EN 3D
  - [72] MELICAN, MORA CAROLYNNE, US
  - [72] MURCIN, LARA, US
  - [72] NSIAH, BARBARA, US
  - [72] LIN, RICHMON, US
  - [72] MORRIS, DEREK, US
  - [72] TRIGG, LINA, US
  - [72] ALVAREZ, LUIS, US
  - [72] SAFAVIEH, MOHAMMADALI, US
  - [72] MODARESIFAR, MASOUD, US
  - [72] VYDIAM, KLAYAN, US
  - [72] KAUR, AMAN, US
  - [71] LUNG BIOTECHNOLOGY PBC, US
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/US2022/028172)
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  - [25] EN
  - [54] INVERSION-BASED COMBINED COLLOCATED (TIME-DOMAIN) AND MULTI-FREQUENCY NON-COLLOCATED SENSOR DATA PROCESSING FOR EVALUATING CASINGS
  - [54] TRAITEMENT DE DONNEES COMBINE A BASE D'INVERSION DE CAPTEUR COLOCALISE (DOMAINE TEMPOREL) ET NON COLOCALISE MULTIFREQUENCE POUR EVALUER DES TUBAGES
  - [72] OMAR, SAAD, US
  - [72] OMERAGIC, DZEVAT, US
  - [71] SCHLUMBERGER CANADA LIMITED, CA
  - [85] 2023-10-26
  - [86] 2022-04-26 (PCT/US2022/026361)
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- [25] EN
- [54] CO-THERAPY WITH VECTOR AND NICOTINIC AGONIST
- [54] CO-THERAPIE AVEC UN VECTEUR ET UN AGONISTE NICOTINIQUE
- [72] NAU, JEFFREY ALAN, US
- [72] CARLSON, ERIC C., US
- [71] OYSTER POINT PHARMA, INC., US
- [85] 2023-11-06
- [86] 2022-05-04 (PCT/US2022/027653)
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[25] EN  
[54] BOLTED RACK BRACKET ASSEMBLY AND REPAIR PROCESS  
[54] ENSEMBLE SUPPORT DE CREMAILLERE BOULONNE ET PROCEDE DE REPARATION  
[72] HARRISON, RONALD K., CA  
[71] HARRISON, RONALD K., CA  
[85] 2023-10-27  
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[54] ELEMENT DE MEUBLE A MECANISME DE REGLAGE LOMBAIRE  
[72] BUCHOLZ, BRANDON, US  
[72] HEGEDUS, ALEXANDER M., US  
[72] LAPOINTE, LARRY P., US  
[71] LA-Z-BOY INCORPORATED, US  
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[25] EN  
[54] AQUEOUS COMPOSITION FOR METALLIC SURFACE TREATMENT AND THE APPLICATION THEREOF  
[54] COMPOSITION AQUEUSE POUR TRAITEMENT DE SURFACE METALLIQUE ET APPLICATION CORRESPONDANTE  
[72] SONG, MING JUAN, CN  
[72] ZOU, HAI XIA, CN  
[72] HUANG, JIN KAI, CN  
[72] XIA, PENG, CN  
[71] CHEMETALL GMBH, DE  
[85] 2023-11-06  
[86] 2022-05-04 (PCT/EP2022/061910)  
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[51] Int.Cl. G06F 30/23 (2020.01) G06F 30/17 (2020.01) E21B 17/00 (2006.01)  
[25] EN  
[54] METHOD FOR OBTAINING COLLAPSE RESISTANCE OF DOUBLE-LAYER CASINGS UNDER EXTERNAL PRESSURE  
[54] PROCEDE PERMETTANT A UN BOITIER A DOUBLE COUCHE DE RESISTER A LA PRESSION EXTERNE ET AUX DEFORMATIONS  
[72] HUANG, YONGZHI, CN  
[72] ZHANG, ZHEPING, CN  
[72] CONG, GUOYUAN, CN  
[72] ZHANG, CHUANYOU, CN  
[72] LI, XUAN, CN  
[72] LV, CHUNLI, CN  
[72] ZHANG, XU, CN  
[72] WU, YONGCHAO, CN  
[72] YANG, TENGFEI, CN  
[72] QIAO, SHI, CN  
[72] ZHAO, YANYAN, CN  
[71] TIANJIN PIPE CORPORATION, CN  
[85] 2023-10-27  
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[30] CN (202110467869.7) 2021-04-28

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[51] Int.Cl. B29C 65/20 (2006.01)  
[25] EN  
[54] MACHINE FOR THE WELDING OF PLASTIC PROFILED ELEMENTS  
[54] MACHINE DESTINEE AU SOUDAGE D'ELEMENTS PROFILES EN PLASTIQUE  
[72] VACCARI, ANDREA, IT  
[71] GRAF SYNERGY S.R.L., IT  
[85] 2023-11-06  
[86] 2022-05-02 (PCT/IB2022/054030)  
[87] (WO2022/234427)  
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[51] Int.Cl. H04N 19/70 (2014.01) H04N 19/124 (2014.01) H04N 19/13 (2014.01) H04N 19/136 (2014.01) H04N 19/184 (2014.01)  
[25] EN  
[54] RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING  
[54] CODAGE RESIDUEL ET DE COEFFICIENTS POUR LE CODAGE VIDEO  
[72] JHU, HONG-JHENG, US  
[72] XIU, XIAOYU, US  
[72] CHEN, YI-WEN, US  
[72] CHEN, WEI, US  
[72] KUO, CHE-WEI, CN  
[72] WANG, XIANGLIN, US  
[72] YU, BING, CN  
[71] BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD., CN  
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[51] Int.Cl. A61P 25/28 (2006.01)  
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[54] METHODS AND COMPOSITIONS FOR TREATING NEUROINFLAMMATION  
[54] PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT D'UNE NEURO-INFLAMMATION  
[72] EQUELS, THOMAS K., US  
[72] STRAYER, DAVID R., US  
[71] AIM IMMUNOTECH INC., US  
[85] 2023-11-06  
[86] 2022-05-05 (PCT/US2022/027942)  
[87] (WO2022/235984)  
[30] US (63/184,752) 2021-05-05  
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[51] Int.Cl. C08F 110/08 (2006.01) C08F 110/14 (2006.01)  
[25] EN  
[54] BRANCHED OLEFIN POLYMER, PREPARATION METHOD THEREFOR AND USE THEREOF  
[54] POLYMERIE OLEFINIQUE RAMIFIE, SON PROCEDE DE PREPARATION ET UTILISATION ASSOCIEE  
[72] GAO, RONG, CN  
[72] GOU, QINGQIANG, CN  
[72] ZHANG, XIAOFAN, CN  
[72] LAI, JINGJING, CN  
[72] ZHOU, JUNLING, CN  
[72] LIN, JIE, CN  
[72] LI, XINYANG, CN  
[72] AN, JINGYAN, CN  
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN  
[71] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, CN  
[85] 2023-10-27  
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[87] (WO2022/227924)  
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[13] A1

[51] Int.Cl. A01N 31/02 (2006.01) C12P 7/04 (2006.01)  
[25] EN  
[54] IMPROVED METHODS AND CELLS FOR INCREASING ENZYME ACTIVITY AND PRODUCTION OF INSECT PHEROMONES  
[54] PROCEDES ET CELLULES AMELIOREES POUR AUGMENTER L'ACTIVITE ENZYMATIQUE ET LA PRODUCTION DE PHEROMONES D'INSECTES  
[72] BORODINA, IRINA, DK  
[72] HOLKENBRINK, CARINA, DK  
[72] KILDEGAARD, KANCHANA RUEKSOMTAWIN, DK  
[72] PETKEVICIUS, KAROLIS, DK  
[72] WENNING, LEONIE, DK  
[71] FMC AGRICULTURAL SOLUTIONS A/S, DK  
[85] 2023-11-06  
[86] 2022-05-10 (PCT/EP2022/062641)  
[87] (WO2022/238404)  
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[51] Int.Cl. B60L 53/53 (2019.01) B60L 53/62 (2019.01) H01M 10/44 (2006.01)  
[25] EN  
[54] ELECTRIC VEHICLE CHARGING SITES  
[54] SITES DE CHARGE DE VEHICULE ELECTRIQUE  
[72] WOLFE, JEFFERY D., US  
[72] SCHENCK, MICHAEL, US  
[71] VELOCE ENERGY, INC., US  
[85] 2023-11-06  
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[54] AAV CAPSIDS AND USES THEREOF  
[54] CAPSIDES AAV ET LEURS UTILISATIONS  
[72] MUSOLINO, PATRICIA L., US  
[72] MAGUIRE, CASEY A., US  
[72] HUDRY, ELOISE, US  
[72] HANLON, KILLIAN S., US  
[71] THE GENERAL HOSPITAL CORPORATION, US  
[85] 2023-10-26  
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[51] Int.Cl. A61K 31/58 (2006.01) A61K 45/06 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01)  
[25] EN  
[54] 19-NOR C3,3-DISUBSTITUTED C21 -N-PYRAZOLYL STEROID FOR USE IN TREATING MAJOR DEPRESSIVE DISORDER AND POSTPARTUM DEPRESSION  
[54] STEROIDE C21-N-PYRAZOLYL DISUBSTITUE EN C3,3 19-NOR DESTINE A ETRE UTILISE DANS LE TRAITEMENT DE LA DEPRESSION MAJEURE ET DE LA DEPRESSION POST-PARTUM  
[72] LASER, ROBERT ALFONSO, US  
[72] DOHERTY, JAMES, US  
[72] JONAS, JEFFREY MARTIN, US  
[72] KANES, STEPHEN JAY, US  
[72] GUNDUZ-BRUCE, HANDAN, US  
[72] COLQUHOUN, HELEN ANNE, US  
[72] ARNOLD, RYAN, US  
[72] BONTHAPALLY, VIJAYVEER, US  
[72] DUNBAR, JOI LISA, US  
[72] ADIWIJAYA, BAMBANG SENOAJI, US  
[71] SAGE THERAPEUTICS, INC., US  
[85] 2023-10-26  
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[87] (WO2022/232504)  
[30] US (63/181,743) 2021-04-29  
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[30] US (63/210,810) 2021-06-15  
[30] US (63/239,096) 2021-08-31  
[30] US (63/285,812) 2021-12-03  
[30] US (63/289,506) 2021-12-14  
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  - [25] EN
  - [54] PSD-95 INHIBITORS AND USES THEREOF
  - [54] INHIBITEURS DE PSD-95 ET LEURS UTILISATIONS
  - [72] SEREIKAITA, VITA, DK
  - [72] BECH-BARTLING, CHRISTIAN REINHARD OTTO, DK
  - [72] STROMGAARD, KRISTIAN, DK
  - [71] UNIVERSITY OF COPENHAGEN, DK
  - [85] 2023-11-06
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  - [25] EN
  - [54] METHOD AND SYSTEM FOR PRODUCING HYDROCARBONS
  - [54] PROCEDE ET SYSTEME DE PRODUCTION D'HYDROCARBURES
  - [72] KINZL, MARKUS, DE
  - [71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
  - [85] 2023-10-27
  - [86] 2022-03-25 (PCT/EP2022/057983)
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  - [54] MICRONEEDLE BASED DELIVERY SYSTEM
  - [54] SYSTEME D'ADMINISTRATION A BASE DE MICRO-AIGUILLES
  - [72] BERTOLLO, NICKY, IE
  - [71] LATCH MEDICAL LIMITED, IE
  - [85] 2023-11-06
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  - [25] EN
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  - [54] SYSTEMES ET METHODES DE REGROUPEMENT D'ECHANTILLONS DESTINE A UNE ANALYSE A HAUT RENDEMENT
  - [72] FRANKEL, MATTHEW, US
  - [72] FRITCHIE, PATRICK, US
  - [72] WILLIAMS, GREGG, US
  - [72] WESTON, BRADLEY, US
  - [71] ABBOTT LABORATORIES, US
  - [85] 2023-10-26
  - [86] 2022-04-29 (PCT/US2022/026995)
  - [87] (WO2022/232550)
  - [30] US (63/181,880) 2021-04-29
  - [30] US (63/181,822) 2021-04-29
  - [30] US (63/181,799) 2021-04-29
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  - [30] US (63/302,982) 2022-01-25
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  - [30] US (63/302,957) 2022-01-25
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  - [54] SYSTEME DE STOCKAGE D?ENERGIE
  - [72] PREDA, NICOLAE, PL
  - [72] HOTLOS, KRZYSZTOF, PL
  - [72] DUSAK, PIOTR, PL
  - [72] GRUCA, JACEK, PL
  - [72] HALAT, PIOTR, PL
  - [72] ANTONIEWICZ, PATRYCJUSZ, PL
  - [71] ABB SCHWEIZ AG, CH
  - [85] 2023-11-06
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- [51] Int.Cl. A61F 2/954 (2013.01) A61F 2/966 (2013.01)
  - [25] EN
  - [54] ENDOVASCULAR IMPLANT POSITIONING APPARATUS WITH FUNCTIONALLY MODIFIED WIRE
  - [54] APPAREIL DE POSITIONNEMENT D'UN IMPLANT ENDOVASCULAIRE AVEC FIL FONCTIONNELLEMENT MODIFIE
  - [72] HASKAL, ZIV J., US
  - [71] BARD PERIPHERAL VASCULAR, INC., US
  - [85] 2023-11-06
  - [86] 2021-06-30 (PCT/US2021/039772)
  - [87] (WO2023/277892)
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[13] A1

- [51] Int.Cl. E21B 4/14 (2006.01) E02D 5/34 (2006.01) E02D 27/52 (2006.01)
- [25] EN
- [54] HYDRAULIC DOWN-THE-HOLE HAMMER AND SUBSEA PILE
- [54] MARTEAU FOND-TROU HYDRAULIQUE ET PIEU SOUS-MARIN
- [72] KESKINIVA, MARKKU, FI
- [72] PURCELL, JOSEPH, IE
- [72] DUCK, SIMON, US
- [71] MINCON INTERNATIONAL LIMITED, IE
- [85] 2023-10-27
- [86] 2022-04-28 (PCT/EP2022/061429)
- [87] (WO2022/229363)
- [30] IE (S2021/0091) 2021-04-29
- [30] IE (S2021/0095) 2021-04-30

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[13] A1

- [51] Int.Cl. A61N 1/05 (2006.01) H02J 50/00 (2016.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01) A61N 1/375 (2006.01) A61N 1/378 (2006.01)
  - [25] EN
  - [54] SELF-SUFFICIENT NEURAL TISSUE STIMULATOR
  - [54] STIMULATEUR DE TISSU NEURONAL AUTO-SUFFISANT
  - [72] BUDNY, JAREK, DE
  - [72] PIORKOWSKI, JUDITH, DE
  - [72] TEEPE, GERD, DE
  - [71] CELTRO GMBH, DE
  - [85] 2023-10-27
  - [86] 2022-04-29 (PCT/EP2022/061445)
  - [87] (WO2022/229370)
  - [30] EP (21171554.5) 2021-04-30
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[13] A1

- [51] Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6848 (2018.01)
  - [25] EN
  - [54] HIGH THROUGHPUT NUCLEIC ACID TESTING OF BIOLOGICAL SAMPLES
  - [54] TEST D'ACIDES NUCLEIQUES A HAUT DEBIT D'ECHANTILLONS BIOLOGIQUES
  - [72] FRANKEL, MATTHEW, US
  - [72] FRITCHIE, PATRICK, US
  - [72] WILLIAMS, GREGG, US
  - [72] WESTON, BRADLEY, US
  - [71] ABBOTT LABORATORIES, US
  - [85] 2023-10-26
  - [86] 2022-04-29 (PCT/US2022/027067)
  - [87] (WO2022/232601)
  - [30] US (63/181,880) 2021-04-29
  - [30] US (63/181,822) 2021-04-29
  - [30] US (63/181,799) 2021-04-29
  - [30] US (63/181,874) 2021-04-29
  - [30] US (63/302,939) 2022-01-25
  - [30] US (63/302,959) 2022-01-25
  - [30] US (63/302,957) 2022-01-25
  - [30] US (63/302,982) 2022-01-25
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- [51] Int.Cl. H02J 50/00 (2016.01) A61B 5/00 (2006.01)
  - [25] EN
  - [54] SELF-SUFFICIENT SIGNAL MONITOR
  - [54] DISPOSITIF DE SURVEILLANCE DE SIGNAL AUTO-SUFFISANT
  - [72] BUDNY, JAREK, DE
  - [72] PIORKOWSKI, JUDITH, DE
  - [72] TEEPE, GERD, DE
  - [71] CELTRO GMBH, DE
  - [85] 2023-10-27
  - [86] 2022-04-29 (PCT/EP2022/061447)
  - [87] (WO2022/229372)
  - [30] EP (21171562.8) 2021-04-30
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[13] A1

- [51] Int.Cl. A47J 36/26 (2006.01)
  - [25] FR
  - [54] APPARATUS AND METHOD FOR COOKING FOOD USING ALCOHOL, WITHOUT CONTACT
  - [54] APPAREIL ET PROCEDE DE CUISSON D'ALIMENTS A L'ALCOOL, SANS CONTACT
  - [72] PROBST, LAURENT, FR
  - [71] COOKAL SAS, FR
  - [85] 2023-11-06
  - [86] 2022-04-21 (PCT/EP2022/060521)
  - [87] (WO2022/242983)
  - [30] FR (FR2105254) 2021-05-20
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[13] A1

- [51] Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)
  - [25] EN
  - [54] NEW STABLE ANTI-VISTA ANTIBODY
  - [54] NOUVEL ANTICORPS ANTI-VISTA STABLE
  - [72] BECK, ALAIN, FR
  - [71] PIERRE FABRE MEDICAMENT, FR
  - [85] 2023-10-27
  - [86] 2022-05-02 (PCT/EP2022/061718)
  - [87] (WO2022/229469)
  - [30] US (63/182,316) 2021-04-30
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- [51] Int.Cl. A61K 9/20 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)
  - [25] EN
  - [54] SOTORASIB FORMULATION
  - [54] FORMULATION DE SOTORASIB
  - [72] ALVAREZ-NUNEZ, FERNANDO ANTONIO, US
  - [72] BAO, JIEMIN, US
  - [72] CHAMARTHY, SAI PRASANTH, US
  - [72] DAURIO, DOMINICK PAUL, US
  - [72] DUGGIRALA, NAGA, US
  - [72] HOUK, BRETT E., US
  - [72] KIANG, YUAN-HON, US
  - [72] OLSOFSKY, ANGELA, US
  - [72] SAWANT, NAMITA, US
  - [71] AMGEN INC., US
  - [85] 2023-10-26
  - [86] 2022-05-05 (PCT/US2022/027830)
  - [87] (WO2022/235904)
  - [30] US (63/184,941) 2021-05-06
  - [30] US (63/212,316) 2021-06-18
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- [51] Int.Cl. B01J 8/00 (2006.01) B01D 24/10 (2006.01) B01D 24/20 (2006.01) B01D 29/15 (2006.01) B01D 29/54 (2006.01) B01D 39/20 (2006.01) B01J 8/04 (2006.01) C10G 1/00 (2006.01) C10G 3/00 (2006.01) C10G 45/00 (2006.01) C10G 47/00 (2006.01)
- [25] EN
- [54] PROCESS FOR HYDROPROCESSING MATERIALS FROM RENEWABLE SOURCES
- [54] PROCEDE D'HYDROTRAITEMENT DE MATERIAUX A PARTIR DE SOURCES RENOUVELABLES
- [72] VAN DIJK, NICOLAAS, NL
- [72] HENKET, ROY LEON BERNARD, NL
- [72] SIGAUD, JULIEN, NL
- [71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
- [85] 2023-10-26
- [86] 2022-05-09 (PCT/US2022/028262)
- [87] (WO2022/240715)
- [30] EP (21173759.8) 2021-05-13

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[51] Int.Cl. C12Q 1/6841 (2018.01)  
[25] EN  
[54] SPATIOTEMPORALLY RESOLVED TRANSCRIPTOMICS AT SUBCELLULAR RESOLUTION  
[54] TRANSCRIPTOMIQUE A RESOLUTION SPATIO-TEMPORELLE AVEC RESOLUTION SUBCELLULAIRE  
[72] WANG, XIAO, US  
[72] REN, JINGYI, US  
[72] ZENG, HU, US  
[71] THE BROAD INSTITUTE INC., US  
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US  
[85] 2023-11-06  
[86] 2022-05-06 (PCT/US2022/028012)  
[87] (WO2022/236011)  
[30] US (63/185,511) 2021-05-07  
[30] US (63/314,873) 2022-02-28

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[13] A1

[51] Int.Cl. A61K 47/10 (2017.01)  
[25] EN  
[54] NEW FORMULATIONS AND USES  
[54] NOUVELLES FORMULATIONS ET UTILISATIONS  
[72] HALLDIN, MAGNUS, SE  
[72] HAGLUND, JOHANNA, SE  
[72] LASSEN, BO, SE  
[72] SJOSTROM, EVA MARIA, SE  
[72] GRIPENHALL, ANNIKA, SE  
[72] SCHIPPER, NICOLAAS, SE  
[72] SEGERDAHL, MARTA, SE  
[71] ALZECURE PHARMA AB, SE  
[85] 2023-11-06  
[86] 2022-05-10 (PCT/EP2022/062664)  
[87] (WO2022/238419)  
[30] SE (2150595-3) 2021-05-10

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[13] A1

[51] Int.Cl. B60L 53/50 (2019.01) B60L 53/62 (2019.01) B60L 53/65 (2019.01) H02J 3/32 (2006.01)  
[25] EN  
[54] SYSTEMS AND METHODS FOR ELECTRIC VEHICLE CHARGING POWER DISTRIBUTION  
[54] SYSTEMES ET PROCEDES DE DISTRIBUTION DE PUISSANCE DE CHARGE DE VEHICULE ELECTRIQUE  
[72] WOLFE, JEFFERY D., US  
[72] SCHENCK, MICHAEL, US  
[71] VELOCE ENERGY, INC., US  
[85] 2023-11-06  
[86] 2022-05-13 (PCT/US2022/029274)  
[87] (WO2022/241267)  
[30] US (63/188,828) 2021-05-14

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[13] A1

[51] Int.Cl. A61B 17/42 (2006.01) A61M 1/00 (2006.01)  
[25] EN  
[54] HEMOSTATIC DEVICE  
[54] DISPOSITIF HEMOSTATIQUE  
[72] OTT, FRANCK, FR  
[72] BARRIER, PASCAL, FR  
[72] LAVALLEE, STEPHANE, FR  
[72] FALCO, ERIC, FR  
[72] CAPPELLETTI, ETHEL, FR  
[72] BERTUCCHI, QUENTIN, FR  
[71] HEMOSQUID, FR  
[85] 2023-10-27  
[86] 2022-05-03 (PCT/EP2022/061884)  
[87] (WO2022/233895)  
[30] EP (21305576.7) 2021-05-04  
[30] US (17/711,355) 2022-04-01

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[13] A1

[25] EN  
[54] SYSTEMS AND METHODS FOR PRESENTING CRUCIAL INFORMATION AND RECOMMENDATIONS  
[54] SYSTEMES ET PROCEDES POUR PRESENTER DES INFORMATIONS CRUCIALES ET DES RECOMMANDATIONS  
[72] DURA DIEZ, JUDITH, DE  
[72] GRECU, HORIA, DE  
[72] CAMPIN, JOHN ALFRED, US  
[72] PETTIT, GEORGE HUNTER, US  
[72] LUKASIK, MALGORZATA, DE  
[72] ZIEGER, PETER, DE  
[71] ALCON INC., CH  
[85] 2023-11-06  
[86] 2022-07-05 (PCT/IB2022/056220)  
[87] (WO2023/281400)  
[30] US (63/219,853) 2021-07-09

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[13] A1

[51] Int.Cl. A61K 35/14 (2015.01) A61K 35/16 (2015.01) A61P 1/16 (2006.01)  
[25] EN  
[54] BLOOD PLASMA FRACTIONS FOR USE IN LIVER REGENERATION  
[54] FRACTIONS DE PLASMA SANGUIN DESTINEES A ETRE UTILISEES DANS LA REGENERATION DU FOIE  
[72] KHEIFETS, VIKTORIA, US  
[72] LU, BENSON, US  
[71] ALKAHEST, INC., US  
[85] 2023-11-06  
[86] 2022-05-05 (PCT/US2022/027834)  
[87] (WO2022/245552)  
[30] US (17/324,359) 2021-05-19

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<b>[21] 3,218,097</b> [13] A1
[51] Int.Cl. A61P 37/08 (2006.01)
[25] EN
<b>[54] TOLERANCE-INDUCING CONSTRUCTS AND COMPOSITION AND THEIR USE FOR THE TREATMENT OF IMMUNE DISORDERS</b>
[54] CONSTRUCTIONS ET COMPOSITION INDUISANT UNE TOLERANCE, ET LEUR UTILISATION POUR LE TRAITEMENT DE TROUBLES IMMUNITAIRES
[72] FREDRIKSEN, AGNETE BRUNSVIK, NO
[72] MYRSET, HEIDI, NO
[71] NYKODE THERAPEUTICS ASA, NO
[85] 2023-11-06
[86] 2022-05-10 (PCT/EP2022/062637)
[87] (WO2022/238402)
[30] DK (PA 2021 70222) 2021-05-10
[30] DK (PA 2021 70367) 2021-07-08
[30] EP (21198526.2) 2021-09-23

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<b>[21] 3,218,099</b> [13] A1
[51] Int.Cl. A61F 9/008 (2006.01)
[25] EN
<b>[54] LASER PULSE SELECTION AND ENERGY LEVEL CONTROL</b>
<b>[54] SELECTION D'IMPULSION LASER ET COMMANDE DE NIVEAU D'ENERGIE</b>
[72] KARIM, JOHN HOSSEIN, US
[72] GUERRERO, CHRISTOPHER ANDREW, US
[72] APOSTOL, ADELA, US
[72] CASTRO, DANIEL, US
[72] KHAZAEINEZHAD, REZA, US
[72] MALEK TABRIZI, ALIREZA, US
[72] STEWART, COREY, US
[72] WITOWSKI, ZENON, US
[71] ALCON INC., CH
[85] 2023-11-06
[86] 2022-07-12 (PCT/IB2022/056434)
[87] (WO2023/285971)
[30] US (63/222,521) 2021-07-16

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<b>[21] 3,218,101</b> [13] A1
[51] Int.Cl. A61K 35/28 (2015.01) A61K 8/98 (2006.01) A61P 17/02 (2006.01)
[25] EN
<b>[54] MESENCHYMAL STEM CELLS FOR USE IN THE TREATMENT OF SKIN DEFECTS</b>
<b>[54] CELLULES SOUCHES MESENCHYMATEUSES DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DE L'ALTERATION DE L'EPIDERME</b>
[72] LUNDGREN AKERLUND, EVY, SE
[72] SJOBERG, FOLKE, SE
[72] LIM, HOOI CHING, SE
[72] ELSERAFY, AHMED, SE
[72] ELMASRY, MOUSTAFA, SE
[71] XINTELA AB, SE
[85] 2023-11-06
[86] 2022-05-20 (PCT/EP2022/063731)
[87] (WO2022/243517)
[30] EP (21174929.6) 2021-05-20

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<b>[21] 3,218,098</b> [13] A1
[51] Int.Cl. B65B 1/26 (2006.01) B65B 1/32 (2006.01) B65B 1/36 (2006.01) B65B 39/08 (2006.01)
[25] EN
<b>[54] METHOD AND APPARATUS FOR FILLING BAGS WITH A QUANTITY OF DEAERATED PRODUCT BY MEANS OF A DEAERATOR INSERTED IN THE PRODUCT</b>
[54] PROCEDE ET APPAREIL DE REMPLISSAGE DE SACS AVEC UNE QUANTITE DE PRODUIT DESAERE AU MOYEN D'UN DESAERATEUR INSERE DANS LE PRODUIT
[72] CONCETTI, TEODORO, IT
[72] CONCETTI, EMANUELE, IT
[72] CECCACCI, GIANNI, IT
[71] CONCETTI S.P.A., IT
[85] 2023-11-06
[86] 2022-05-06 (PCT/IB2022/054203)
[87] (WO2022/238834)
[30] IT (10202100011882) 2021-05-10
[30] IT (10202100011900) 2021-05-10

<b>[21] 3,218,100</b> [13] A1
[25] EN
<b>[54] DAMAGE DETECTION SYSTEM</b>
<b>[54] SYSTEME DE DETECTION DE DOMMAGES</b>
[72] BONNER, MARK, GB
[72] EDGAR, DAVID, GB
[72] BOZIC, MILOS, GB
[71] THREE SMITH GROUP LIMITED, GB
[85] 2023-11-06
[86] 2022-02-10 (PCT/GB2022/050359)
[87] (WO2022/234241)
[30] GB (2106512.3) 2021-05-07

<b>[21] 3,218,102</b> [13] A1
[51] Int.Cl. C09D 9/04 (2006.01) C11D 1/62 (2006.01)
[25] EN
<b>[54] RECYCLING PLASTICS</b>
<b>[54] RECYCLAGE DE PLASTIQUES</b>
[72] DONALDSON, JAMES, GB
[71] SORTOLOGY LTD, GB
[85] 2023-11-06
[86] 2022-05-06 (PCT/GB2022/051164)
[87] (WO2022/234296)
[30] GB (2106579.2) 2021-05-07

<b>[21] 3,218,103</b> [13] A1
[51] Int.Cl. A61K 31/437 (2006.01) A61K 31/444 (2006.01) A61K 31/7068 (2006.01) A61K 45/06 (2006.01)
[25] EN
<b>[54] AUTOTAXIN (ATX) INHIBITOR FOR THE TREATMENT OF PANCREATIC CANCER</b>
<b>[54] INHIBITEUR DE L'AUTOTAXINE (ATX) POUR LE TRAITEMENT DU CANCER DU PANCREAS</b>
[72] JOHNSON, ZOE, CH
[72] DEKEN, MARCEL, CH
[72] LAHN, MICHAEL, CH
[72] MELISI, DAVIDE, IT
[71] IONCTURA SA, CH
[85] 2023-11-06
[86] 2022-06-08 (PCT/EP2022/065562)
[87] (WO2022/258693)
[30] GB (2108245.8) 2021-06-09

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[13] A1

- [51] Int.Cl. B60P 3/035 (2006.01) B65H 49/32 (2006.01) B65H 75/42 (2006.01)
  - [25] EN
  - [54] A DEVICE FOR SUPPORTING AND OPERATING A CABLE DRUM AND A SERVICE TRAILER COMPRISING SAID DEVICE
  - [54] DISPOSITIF DE SUPPORT ET DE FONCTIONNEMENT D'UN ENROUEUR DE CABLE ET REMORQUE DE SERVICE COMPRENANT LEDIT DISPOSITIF
  - [72] WARDEGA, TOMASZ, PL
  - [71] WARDEGA, TOMASZ, PL
  - [85] 2023-11-06
  - [86] 2022-04-19 (PCT/IB2022/053639)
  - [87] (WO2022/234373)
  - [30] PL (P.437789) 2021-05-06
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[13] A1

- [51] Int.Cl. B65B 1/06 (2006.01) B65B 1/26 (2006.01) B65B 1/32 (2006.01) B65B 1/36 (2006.01) B65B 9/10 (2006.01) B65B 39/00 (2006.01) B65B 39/08 (2006.01)
  - [25] EN
  - [54] METHOD AND EQUIPMENT FOR FILLING BAGS WITH A DEAERATED AMOUNT OF PRODUCT, WITH ADDITIONAL DEAERATION OR COMPACTION
  - [54] PROCEDE ET EQUIPEMENT POUR REMPLIR DES SACS AVEC UNE QUANTITE DE PRODUIT DESAEREE, AVEC UNE DESAERATION OU UN COMPACTAGE SUPPLEMENTAIRE
  - [72] CONCETTI, TEODORO, IT
  - [72] CONCETTI, EMANUELE, IT
  - [72] CECCACCI, GIANNI, IT
  - [71] CONCETTI S.P.A., IT
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/IB2022/054210)
  - [87] (WO2022/238839)
  - [30] IT (10202100011882) 2021-05-10
  - [30] IT (10202100011900) 2021-05-10
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[13] A1

- [25] EN
  - [54] AUTOMATIC SELECTION OF ANIMALS TO BE TREATED DURING A TREATMENT PERIOD
  - [54] SELECTION AUTOMATIQUE D'ANIMAUX A TRAITER PENDANT UNE PERIODE DE TRAITEMENT
  - [72] ERIKSSON, GORAN, SE
  - [72] UMEGARD, ANDERS, SE
  - [71] DELAVAL HOLDING AB, SE
  - [85] 2023-11-06
  - [86] 2022-05-18 (PCT/SE2022/050487)
  - [87] (WO2022/250594)
  - [30] SE (2150665-4) 2021-05-26
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**[21] 3,218,108**

[13] A1

- [51] Int.Cl. C01B 3/38 (2006.01) C01B 3/48 (2006.01) C01B 3/56 (2006.01)
  - [25] EN
  - [54] PROCESS AND PLANT FOR PRODUCING PURE HYDROGEN BY STEAM REFORMING WITH REDUCED CARBON DIOXIDE EMISSIONS
  - [54] PROCEDE ET INSTALLATION DE PRODUCTION D'HYDROGENE PUR PAR REFORMAGE A LA VAPEUR AVEC REDUCTION DES EMISSIONS DE DIOXYDE DE CARBONE
  - [72] SCHMID MCGUINNESS, TEJA, DE
  - [72] SCHMIDT, SOPHIA, DE
  - [72] KUZNIAR, JAKUB, PL
  - [72] JUNGER, JASMIN, DE
  - [71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCED, FR
  - [85] 2023-11-06
  - [86] 2022-05-24 (PCT/EP2022/025239)
  - [87] (WO2022/253459)
  - [30] EP (21020286.7) 2021-05-31
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**[21] 3,218,109**

[13] A1

- [25] EN
  - [54] METHOD FOR RECYCLING PLASTIC FILM
  - [54] PROCEDE DE RECYCLAGE DE FILM PLASTIQUE
  - [72] DONALDSON, JAMES, GB
  - [71] SORTOLOGY LTD, GB
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/GB2022/051165)
  - [87] (WO2022/234297)
  - [30] GB (2106578.4) 2021-05-07
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**[21] 3,218,110**

[13] A1

- [51] Int.Cl. C07D 209/16 (2006.01)
  - [25] EN
  - [54] NEW N,N-DIMETHYLTRYPTAMINE SALTS AND CRYSTALLINE SALT FORMS
  - [54] NOUVEAUX SELS DE N,N-DIMETHYLTRYPTAMINE ET NOUVELLES FORMES DE SEL CRISTALLIN
  - [72] FAWAZ, MAJED, US
  - [72] SHORT, GLENN, US
  - [71] ATAI LIFE SCIENCES AG, DE
  - [85] 2023-11-06
  - [86] 2022-05-25 (PCT/US2022/030912)
  - [87] (WO2022/251351)
  - [30] US (63/192,938) 2021-05-25
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**[21] 3,218,111**

[13] A1

- [25] EN
- [54] LINER ARRANGEMENT FOR INSERTING IN A PIPE STRUCTURE, AND METHOD FOR RELINING A PIPE STRUCTURE
- [54] AGENCEMENT DE CHEMISE DESTINE A ETRE INSERE DANS UNE STRUCTURE DE TUYAU, ET PROCEDE DE RECHEMISAGE D'UNE STRUCTURE DE TUYAU
- [72] STOCKFORS, JESPER, SE
- [71] REPIPER AB, SE
- [85] 2023-11-06
- [86] 2022-05-19 (PCT/SE2022/050495)
- [87] (WO2022/245275)
- [30] AU (2021901501) 2021-05-19

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[13] A1

- [51] Int.Cl. A61K 35/15 (2015.01)
  - [25] EN
  - [54] **REPROGRAMMING OF CELLS TO TYPE 1 CONVENTIONAL DENDRITIC CELLS OR ANTIGEN-PRESENTING CELLS**
  - [54] **REPROGRAMMATION DE CELLULES EN CELLULES PRESENTATRICES D'ANTIGENES OU CELLULES DENDRITIQUES CONVENTIONNELLES DE TYPE 1**
  - [72] FIUZA ROSA, FABIO, PT
  - [72] ZIMMERMANNNOVA, OLGA, CZ
  - [72] BARROS FERREIRA, ALEXANDRA GABRIELA, PT
  - [72] ASCIC, ERVIN, AT
  - [72] FERREIRA PIRES, CRISTIANA, PT
  - [72] RIBEIRO LEMOS PEREIRA, CARLOS FILIPE, PT
  - [71] ASGARD THERAPEUTICS AB, SE
  - [85] 2023-11-06
  - [86] 2022-05-19 (PCT/EP2022/063606)
  - [87] (WO2022/243448)
  - [30] EP (21174802.5) 2021-05-19
  - [30] EP (22158117.6) 2022-02-23
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**[21] 3,218,113**

[13] A1

- [51] Int.Cl. A61K 35/42 (2015.01) A61L 27/38 (2006.01) A61L 27/56 (2006.01)
- [25] EN
- [54] **TREATMENT OF LUNG AND AIRWAY DISEASES AND DISORDERS**
- [54] **TRAITEMENT DE MALADIES ET DE TROUBLES PULMONAIRES ET RESPIRATOIRES**
- [72] HILL, DEREK, US
- [71] AZ SOLUTIONS LLC, US
- [85] 2023-11-06
- [86] 2022-05-04 (PCT/US2022/027648)
- [87] (WO2022/235781)
- [30] US (17/307,232) 2021-05-04

**[21] 3,218,114**

[13] A1

- [51] Int.Cl. G06N 10/00 (2022.01) G02F 1/33 (2006.01) G06N 3/04 (2023.01) G06N 5/02 (2023.01)
  - [25] EN
  - [54] **SYSTEM AND METHOD USING MULTILAYER OPTICAL LATTICE QUBIT ARRAYS FOR QUANTUM COMPUTING**
  - [54] **Système et procédé utilisant des réseaux de bits quantiques à réseau optique multicouche pour le calcul quantique**
  - [72] HENDRICKSON, PETER CARL, US
  - [72] ERWIN, JADON DANIEL, US
  - [71] KBR WYLE SERVICES, LLC, US
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/US2022/028209)
  - [87] (WO2022/250933)
  - [30] US (63/186,037) 2021-05-07
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**[21] 3,218,115**

[13] A1

- [51] Int.Cl. A23B 9/26 (2006.01) A23L 3/3499 (2006.01) A23L 3/3508 (2006.01) C12C 1/02 (2006.01) C12C 1/027 (2006.01)
- [25] EN
- [54] **TREATMENT OF GRAINS OR SEEDS FOR THE CONTROL OF MICROORGANISMS UTILIZING PEROXY ACIDS**
- [54] **TRAITEMENT DE GRAINS OU DE GRAINES POUR LUTTER CONTRE DES MICRO-ORGANISMES AU MOYEN DE PEROXYACIDES**
- [72] BLOCK, PHILIP A., US
- [72] PISANOVA, ELENA, US
- [72] MACLEOD, AARON, CA
- [71] EVONIK OPERATIONS GMBH, DE
- [85] 2023-11-06
- [86] 2022-04-29 (PCT/EP2022/061439)
- [87] (WO2022/238143)
- [30] US (63/186,606) 2021-05-10

**[21] 3,218,117**

[13] A1

- [25] EN
  - [54] **VEHICLE PROXIMITY SENSOR SYSTEM**
  - [54] **Système de capteur de proximité de véhicule**
  - [72] EDGAR, DAVID, GB
  - [72] BOZIC, MILOS, GB
  - [72] WROE, MATTHEW, GB
  - [71] THREE SMITH GROUP LIMITED, GB
  - [85] 2023-11-06
  - [86] 2022-02-10 (PCT/GB2022/050360)
  - [87] (WO2022/234242)
  - [30] GB (2106513.1) 2021-05-07
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**[21] 3,218,118**

[13] A1

- [51] Int.Cl. A23B 9/26 (2006.01) A23L 3/3499 (2006.01) A23L 3/3508 (2006.01) C12C 1/02 (2006.01) C12C 1/027 (2006.01)
- [25] EN
- [54] **ANTIMICROBIAL CONTROL FOR GRAINS OR SEEDS DURING MALTING**
- [54] **LUTTE ANTIMICROBIENNE DANS DES GRAINS OU DES GRAINES DURANT LE MALTAGE**
- [72] AN, WEIDONG, US
- [72] PISANOVA, ELENA, US
- [72] MITTIGA, CORYN, US
- [72] ROVISON, JR. JOHN M., US
- [72] WALLACE, JOHN, US
- [71] EVONIK OPERATIONS GMBH, DE
- [85] 2023-11-06
- [86] 2022-04-29 (PCT/EP2022/061434)
- [87] (WO2022/238141)
- [30] US (63/186,606) 2021-05-10

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**[21] 3,218,119**  
[13] A1

- [51] Int.Cl. C05G 3/90 (2020.01)
  - [25] EN
  - [54] STABLE S-(+)-ABSCISIC ACID NONAQUEOUS LIQUID SOLUTIONS
  - [54] SOLUTIONS LIQUIDES NON AQUEUSES D'ACIDE S-(+)-ABSCISSIQUE STABLE
  - [72] SHETH, RITESH BHARAT, US
  - [72] DOLLAR, MARIA, US
  - [72] GONZALEZ, FRANCISCO JAVIER MALDONADO, CL
  - [71] STOLLER ENTERPRISES, INC., US
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/US2022/028056)
  - [87] (WO2022/236043)
  - [30] US (63/184,963) 2021-05-06
  - [30] US (17/534,320) 2021-11-23
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**[21] 3,218,120**  
[13] A1

- [25] EN
  - [54] HEAT ENGINE SYSTEM AND METHOD
  - [54] SYSTEME ET PROCEDE DE MOTEUR THERMIQUE
  - [72] KHAN, MOHAMMAD IBRAHEM, CA
  - [72] KUNTZ, MICHAEL LAWRENCE, CA
  - [72] TAN, BEN KINH, CA
  - [72] LAKHIAN, VICKRAM SWARN SINGH, CA
  - [72] AHSAN, SHAHZAD, CA
  - [71] SMARTER ALLOYS INC., CA
  - [85] 2023-11-06
  - [86] 2022-05-09 (PCT/CA2022/050726)
  - [87] (WO2022/232951)
  - [30] US (63/185,480) 2021-05-07
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**[21] 3,218,121**  
[13] A1

- [51] Int.Cl. A61F 9/009 (2006.01) A61F 9/008 (2006.01)
  - [25] FR
  - [54] COUPLING INTERFACE BETWEEN A LASER SOURCE AND A TISSUE TO BE TREATED
  - [54] INTERFACE DE COUPLAGE ENTRE UNE SOURCE L.A.S.E.R. ET UN TISSU A TRAITER
  - [72] ROMANO, FABRIZIO, FR
  - [72] BERNARD, AURELIEN, FR
  - [71] KERANOVA, FR
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/EP2022/062236)
  - [87] (WO2022/234060)
  - [30] FR (FR2104803) 2021-05-06
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**[21] 3,218,122**  
[13] A1

- [51] Int.Cl. A23G 9/42 (2006.01)
  - [25] EN
  - [54] FROZEN DESSERT
  - [54] DESSERT GLACE
  - [72] TODO, JUNKO, JP
  - [72] KANBE, HISASHI, JP
  - [72] AKIYAMA, NAOYA, JP
  - [71] LOTTE CO., LTD., JP
  - [85] 2023-11-06
  - [86] 2021-05-13 (PCT/JP2021/018143)
  - [87] (WO2022/239168)
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**[21] 3,218,123**  
[13] A1

- [51] Int.Cl. C07K 16/28 (2006.01)
  - [25] EN
  - [54] METHODS OF TREATING DERMATOMYOSITIS
  - [54] PROCEDES DE TRAITEMENT DE LA DERMATOMYOSITE
  - [72] DI NARO, ANTONIO FRANCESCO, CH
  - [71] ADIENNE S.A., CH
  - [85] 2023-11-06
  - [86] 2022-05-13 (PCT/IB2022/054500)
  - [87] (WO2022/238977)
  - [30] US (63/201,806) 2021-05-13
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**[21] 3,218,124**  
[13] A1

- [51] Int.Cl. A61M 39/04 (2006.01)
  - [25] EN
  - [54] SYSTEM PROVIDING IMPROVED VISIBILITY FOR MINIMALLY INVASIVE SURGERY SYSTEMS
  - [54] SYSTEME FOURNISSANT UNE VISIBILITE AMELIOREE POUR DES SYSTEMES DE CHIRURGIE MINI-INVASIVE
  - [72] DREYFUSS, PETER, US
  - [72] KEMP, ZACHARY A., US
  - [72] ADAMSON, TIM E., US
  - [72] GALLIZZI, MICHAEL, US
  - [72] JENSEN, WADE K., US
  - [72] KARNES, G. JOSHUA, US
  - [72] NOBLE, SHANE J., US
  - [71] ARTHREX, INC., US
  - [85] 2023-11-06
  - [86] 2022-05-04 (PCT/US2022/027582)
  - [87] (WO2022/235732)
  - [30] US (17/314,990) 2021-05-07
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**[21] 3,218,125**  
[13] A1

- [51] Int.Cl. C07C 51/56 (2006.01) C07C 53/12 (2006.01) C07C 53/18 (2006.01) C07C 55/12 (2006.01) C07C 57/44 (2006.01) C07C 63/06 (2006.01) C07D 309/32 (2006.01)
  - [25] EN
  - [54] INTEGRATED PROCESS FOR GENERATING ACID ANHYDRIDES
  - [54] PROCEDE INTEGRE POUR GENERER DES ANHYDRIDES D'ACIDE
  - [72] GORKE, JOHNATHAN, US
  - [72] HASHIGUCHI, BRIAN, US
  - [72] KONNICK, MICHAEL, US
  - [72] KOUBA, JAY, US
  - [72] SCHER, ERIK, US
  - [72] PATT, JEREMY, US
  - [72] BJORKLUND, MARY, US
  - [71] HYCONIX, INC., US
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/US2022/028175)
  - [87] (WO2022/236127)
  - [30] US (63/185,169) 2021-05-06
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**[21] 3,218,126**  
[13] A1

- [25] EN
- [54] LYOPHILIZED NON-VIRAL DNA VECTOR COMPOSITIONS AND USES THEREOF
- [54] COMPOSITIONS DE VECTEURS D'ADN NON VIRAUX LYOPHILISEES ET LEURS UTILISATIONS
- [72] MANGANELLO, MATTHEW, US
- [72] PARKHURST, BENJAMIN, US
- [71] GENERATION BIO CO., US
- [85] 2023-11-06
- [86] 2022-05-06 (PCT/US2022/028021)
- [87] (WO2022/236016)
- [30] US (63/185,574) 2021-05-07

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[21] **3,218,127**  
[13] A1

[51] Int.Cl. C07K 16/28 (2006.01) A61P  
37/06 (2006.01)  
[25] EN  
[54] METHODS OF TREATING GRAFT  
VERSUS HOST DISEASE  
[54] PROCEDES DE TRAITEMENT  
D'UNE MALADIE DU GREFFON  
CONTRE L'HOTE  
[72] DI NARO, ANTONIO FRANCESCO,  
CH  
[71] ADIENNE S.A., CH  
[85] 2023-11-06  
[86] 2022-05-13 (PCT/IB2022/054501)  
[87] (WO2022/238978)  
[30] US (63/201,805) 2021-05-13

[21] **3,218,128**  
[13] A1

[25] EN  
[54] NEW PROMOTER SEQUENCE  
FOR GENE THERAPY  
[54] NOUVELLE SEQUENCE DE  
PROMOTEUR POUR THERAPIE  
GENIQUE  
[72] BIFFI, ALESSANDRA, IT  
[72] POLETTI, VALENTINA, IT  
[71] UNIVERSITA' DEGLI STUDI DI  
PADOVA, IT  
[85] 2023-11-06  
[86] 2022-05-03 (PCT/IB2022/054069)  
[87] (WO2022/234445)  
[30] IT (102021000011576) 2021-05-06

[21] **3,218,129**  
[13] A1

[51] Int.Cl. C01B 15/023 (2006.01) B01D  
1/06 (2006.01) F01D 1/02 (2006.01)  
[25] EN  
[54] OPTIMIZED STEAM NETWORK  
FOR THE AO PROCESS  
[54] RESEAU DE VAPEUR OPTIMISE  
POUR LE PROCEDE AO  
[72] CHAPPELL, BRENNAN, DE  
[72] AREVALO SAADE, EDUARDO  
FEDERICO, DE  
[72] LODE, FLORIAN, DE  
[71] EVONIK OPERATIONS GMBH, DE  
[85] 2023-11-06  
[86] 2022-04-29 (PCT/EP2022/061473)  
[87] (WO2022/238147)  
[30] EP (21172999.1) 2021-05-10

[21] **3,218,130**  
[13] A1

[51] Int.Cl. C12Q 1/6806 (2018.01) C12Q  
1/6874 (2018.01)  
[25] EN  
[54] FLOW CELLS AND METHODS  
[54] CUVE A CIRCULATION ET  
PROCEDES  
[72] BRUSTAD, ERIC M., US  
[72] CIESLA, CRAIG MICHAEL, US  
[72] FISHER, JEFFREY S., US  
[72] HONG, SAHNGKI, US  
[72] KRAFT, LEWIS J., US  
[71] ILLUMINA, INC., US  
[85] 2023-11-06  
[86] 2022-05-26 (PCT/US2022/031129)  
[87] (WO2022/256226)  
[30] US (63/195,123) 2021-05-31

[21] **3,218,131**  
[13] A1

[51] Int.Cl. G06T 7/00 (2017.01) G06T  
7/62 (2017.01) G06T 7/60 (2017.01)  
[25] EN  
[54] METHOD FOR MONITORING  
THE QUALITY  
CHARACTERISTICS OF A PULP  
BALE IN A BALING LINE  
[54] PROCEDE DE SURVEILLANCE  
DES PROPRIETES DE QUALITE  
D'UNE BALLE DE CELLULOSE  
DANS UNE LIGNE DE  
PRODUCTION DE BALLES  
[72] BERGMANN, MICHAEL, AT  
[72] GRATZER, GERNOT, AT  
[72] KONJEVOD, ARMIN, AT  
[71] ANDRITZ AG, AT  
[85] 2023-11-06  
[86] 2022-03-28 (PCT/EP2022/058145)  
[87] (WO2022/233499)  
[30] AT (A50347/2021) 2021-05-06

[21] **3,218,132**  
[13] A1

[25] EN  
[54] NON-VIRAL DNA VECTORS FOR  
VACCINE DELIVERY  
[54] VECTEURS D'ADN NON VIRAUX  
POUR L'ADMINISTRATION DE  
VACCINS  
[72] SAMAYOA, PHILLIP, US  
[72] STANTON, MATTHEW G., US  
[72] RAJENDRAN, RAJ, US  
[72] KLATTE, DEBRA, US  
[72] SILVER, NATHANIEL, US  
[72] HAMM, LUKE S., US  
[72] MANGANELLO, MATTHEW, US  
[72] MOFFIT, JEFFREY, US  
[71] GENERATION BIO CO., US  
[85] 2023-11-06  
[86] 2022-05-06 (PCT/US2022/028019)  
[87] (WO2022/236014)  
[30] US (63/185,823) 2021-05-07

[21] **3,218,133**  
[13] A1

[51] Int.Cl. C21D 8/02 (2006.01) C21D  
8/10 (2006.01) C22C 38/00 (2006.01)  
C22C 38/58 (2006.01)  
[25] EN  
[54] HIGH-STRENGTH HOT ROLLED  
STEEL SHEET AND METHOD  
FOR PRODUCING THE SAME,  
AND HIGH-STRENGTH  
ELECTRIC RESISTANCE  
WELDED STEEL PIPE AND  
METHOD FOR PRODUCING THE  
SAME  
[54] TOLE D'ACIER LAMEE A  
CHAUD A HAUTE RESISTANCE  
ET SON PROCEDE DE  
FABRICATION, ET TUYAU EN  
ACIER SOUDE PAR RESISTANCE  
ELECTRIQUE A HAUTE  
RESISTANCE ET SON PROCEDE  
DE FABRICATION  
[72] MATSUMOTO, AKIHIDE, JP  
[72] IDE, SHINSUKE, JP  
[71] JFE STEEL CORPORATION, JP  
[85] 2023-11-06  
[86] 2022-04-11 (PCT/JP2022/017541)  
[87] (WO2022/239591)  
[30] JP (2021-082066) 2021-05-14

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<p>[21] 3,218,135 [13] A1</p> <p>[51] Int.Cl. G06K 19/077 (2006.01) H01L 23/00 (2006.01)</p> <p>[25] EN</p> <p>[54] MODULE FOR INTEGRATING INTO A CARD BODY OF A SMART CARD, SMART CARD, AND METHOD OF IMPLANTING A MODULE INTO A CARD BODY OF A SMART CARD</p> <p>[54] MODULE DESTINE A ETRE INTEGRE DANS UN CORPS DE CARTE D'UNE CARTE A PUCE, CARTE A PUCE ET PROCEDE D'IMPLANTATION D'UN MODULE DANS UN CORPS DE CARTE D'UNE CARTE A PUCE</p> <p>[72] NIELAND, CARSTEN, DE</p> <p>[72] MATHIEU, CHRISTOPHE, FR</p> <p>[71] LINXENS HOLDING, FR</p> <p>[85] 2023-11-06</p> <p>[86] 2021-05-21 (PCT/IB2021/000487)</p> <p>[87] (WO2022/243717)</p>
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<p>[21] 3,218,136 [13] A1</p> <p>[51] Int.Cl. E01C 19/34 (2006.01) E01C 19/38 (2006.01) E02D 3/046 (2006.01) E02D 3/054 (2006.01) E02F 3/96 (2006.01) E03F 3/06 (2006.01)</p> <p>[25] EN</p> <p>[54] PIPE LAYING APPARATUS</p> <p>[54] APPAREIL DE POSE DE TUYAU</p> <p>[72] GATELY, PEARSE, IE</p> <p>[71] GATELY, PEARSE, IE</p> <p>[85] 2023-11-06</p> <p>[86] 2022-04-29 (PCT/EP2022/061623)</p> <p>[87] (WO2022/233749)</p> <p>[30] GB (2106551.1) 2021-05-07</p>
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<p>[21] 3,218,137 [13] A1</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR HAPTICS USING SHAPE MEMORY MATERIAL</p> <p>[54] SYSTEME ET PROCEDE POUR HAPTIQUES UTILISANT UN MATERIAU A MEMOIRE DE FORME</p> <p>[72] KHAN, MOHAMMAD IBRAHEM, CA</p> <p>[72] KUNTZ, MICHAEL LAWRENCE, CA</p> <p>[72] AHSAN, SHAHZAD, CA</p> <p>[71] SMARTER ALLOYS INC., CA</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-09 (PCT/CA2022/050727)</p> <p>[87] (WO2022/232952)</p> <p>[30] US (63/185,485) 2021-05-07</p>
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<p>[21] 3,218,138 [13] A1</p> <p>[51] Int.Cl. G01N 30/86 (2006.01)</p> <p>[25] EN</p> <p>[54] AMPLIFICATION AND DETECTION OF COMPOUND SIGNALS</p> <p>[54] AMPLIFICATION ET DETECTION DE SIGNAUX DE COMPOSES</p> <p>[72] HUBBARD, ALLEN, US</p> <p>[72] KAMBHAMPATI, SHRIKAAR, US</p> <p>[72] EVANS, BRAD, US</p> <p>[71] DONALD DANFORTH PLANT SCIENCE CENTER, US</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-06 (PCT/US2022/028150)</p> <p>[87] (WO2022/236106)</p> <p>[30] US (63/185,674) 2021-05-07</p>
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<p>[21] 3,218,139 [13] A1</p> <p>[51] Int.Cl. C01B 3/38 (2006.01) C01B 3/48 (2006.01) C01B 3/50 (2006.01) C01B 3/56 (2006.01)</p> <p>[25] EN</p> <p>[54] PROCESS AND PLANT FOR PRODUCING PURE HYDROGEN BY STEAM REFORMING WITH LOW CARBON DIOXIDE EMISSIONS</p> <p>[54] PROCEDE ET INSTALLATION DE PRODUCTION D'HYDROGENE PUR PAR REFORMAGE A LA VAPEUR A FAIBLES EMISSIONS DE DIOXYDE DE CARBONE</p> <p>[72] SCHMID MCGUINNESS, TEJA, DE</p> <p>[72] SCHMIDT, SOPHIA, DE</p> <p>[72] KUZNIAR, JAKUB, PL</p> <p>[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-24 (PCT/EP2022/025240)</p> <p>[87] (WO2022/253460)</p> <p>[30] EP (21020287.5) 2021-05-31</p>
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<p>[21] 3,218,140 [13] A1</p> <p>[51] Int.Cl. B63B 25/28 (2006.01)</p> <p>[25] EN</p> <p>[54] AUTOMATIC LOCKING MECHANISM, LOCKING SYSTEM AND A METHOD FOR OPERATING THE LOCKING MECHANISM</p> <p>[54] MECANISME DE VERROUILLAGE AUTOMATIQUE, SYSTEME DE VERROUILLAGE ET PROCEDE DE FONCTIONNEMENT DU MECANISME DE VERROUILLAGE</p> <p>[72] PRAST, LARS, DK</p> <p>[71] SH GROUP A/S, DK</p> <p>[85] 2023-11-06</p> <p>[86] 2021-10-05 (PCT/EP2021/077423)</p> <p>[87] (WO2022/242888)</p> <p>[30] DK (BA 2021 00044) 2021-05-18</p>
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[21] 3,218,141

[13] A1

- [51] Int.Cl. A61F 13/49 (2006.01)
- [25] EN
- [54] ABSORBENT ARTICLE
- [54] ARTICLE ABSORBANT
- [72] BLOMSTROM, PHILIP, SE
- [72] PALMQVIST, LISA, SE
- [72] KNOS, ANNA, SE
- [71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
- [85] 2023-11-06
- [86] 2021-05-07 (PCT/EP2021/062165)
- [87] (WO2022/233431)

[21] 3,218,142

[13] A1

- [51] Int.Cl. C04B 18/16 (2023.01) C04B 14/26 (2006.01) C04B 22/10 (2006.01) C04B 28/04 (2006.01) C04B 28/06 (2006.01)
- [25] EN
- [54] METHOD FOR PRODUCING SUPPLEMENTARY CEMENTITIOUS MATERIAL
- [54] PROCEDE DE PRODUCTION DE MATERIAU CIMENTAIRE SUPPLEMENTAIRE
- [72] ZAJAC, MACIEJ, DE
- [72] SKOCEK, JAN, DE
- [72] BULLERJAHN, FRANK, DE
- [72] BOLTE, GERD, DE
- [71] HEIDELBERG MATERIALS AG, DE
- [85] 2023-11-06
- [86] 2022-05-04 (PCT/EP2022/061984)
- [87] (WO2022/248179)
- [30] EP (21176008.7) 2021-05-26

[21] 3,218,143

[13] A1

- [51] Int.Cl. F24F 13/22 (2006.01)
- [25] EN
- [54] METHOD AND APPARATUS TO REDUCE DEW CONDENSATION
- [54] PROCEDE ET APPAREIL POUR REDUIRE LA CONDENSATION DE ROSEE
- [72] BEGGS, RYAN, US
- [72] CAMPBELL, STEVEN HART, US
- [71] RITE-HITE HOLDING CORPORATION, US
- [85] 2023-11-06
- [86] 2022-05-05 (PCT/US2022/027811)
- [87] (WO2022/235892)
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- [54] HASHISH PRODUCT AND INDUSTRIAL EXTRUSION PROCESS FOR MAKING SAME USING PRETREATED STARTING MATERIALS
- [54] PRODUIT DE HASCHICH ET PROCEDE INDUSTRIEL D'EXTRUSION POUR SA PRODUCTION A L'AIDE DE MATIERES PREMIERES PRETRAITEES
- [72] SAVARD, JAMIE, CA
- [71] HEXO OPERATIONS INC., CA
- [85] 2023-11-06
- [86] 2022-05-13 (PCT/CA2022/050766)
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- [54] SAFETY INTRAVENOUS CANNULA
- [54] CANULE INTRAVEINEUSE DE SECURITE
- [72] GUPTA, NEERAJ, IN
- [72] FAGLEY, CALVIN TODD, US
- [72] SENDER, RACHEL ANN, US
- [71] MEDSOURCE INTERNATIONAL LLC, US
- [85] 2023-11-06
- [86] 2022-05-04 (PCT/US2022/027597)
- [87] (WO2022/235744)
- [30] IN (202111020693) 2021-05-06
- [30] US (17/551,255) 2021-12-15

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- [25] EN
- [54] POLYMERIQUE D'ACIDE 2-ACRYLAMIDO-2-METHYLPROPANE SULFONIQUE ET LEUR UTILISATION
- [54] POLYMER OF 2-ACRYLAMIDO-2-METHYLPROPANE SULPHONIC ACID AND USE THEREOF
- [72] FAVERO, CEDRICK, FR
- [72] KIEFFER, JOHANN, FR
- [71] SNF GROUP, FR
- [85] 2023-11-06
- [86] 2022-07-08 (PCT/FR2022/051379)
- [87] (WO2023/281233)
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- [25] EN
- [54] METHOD AND INSPECTION DEVICE FOR EXAMINING THE CATHODIC PROTECTION OF A, MORE PARTICULARLY FERROMAGNETIC, PIPELINE
- [54]
- [72] DANILOV, ANDREY, DE
- [72] BOSSE, BEN, DE
- [72] ROSEN, PATRIK, DE
- [71] ROSEN IP AG, CH
- [85] 2023-11-06
- [86] 2022-05-06 (PCT/EP2022/062342)
- [87] (WO2022/234117)
- [30] BE (BE2021/5375) 2021-05-07

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- [25] EN
- [54] REIN SAFETY CONNECTOR DEVICE
- [54] DISPOSITIF DE CONNEXION DE SECURITE POUR LES RENES
- [72] WILLIAMS, LAURIE, GB
- [71] WILLIAMS, LAURIE, GB
- [85] 2023-11-06
- [86] 2022-05-06 (PCT/GB2022/051157)
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  - [25] EN
  - [54] **METHOD FOR OBTAINING BIO-SOURCED (METH)ALLYLSULFONATE ALKALI SALT**
  - [54] **PROCEDE D'OBTENTION DE SEL ALCALIN DE (METH)ALLYLSULFONATE BIO-SOURCE**
  - [72] FAVERO, CEDRICK, FR
  - [72] KIEFFER, JOHANN, FR
  - [71] SNF GROUP, FR
  - [85] 2023-11-06
  - [86] 2022-07-08 (PCT/EP2022/069150)
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- [54] **PYRAMID LINING FOR MILL DRUM**
- [54] **REVETEMENT PYRAMIDAL POUR TAMBOUR DE BROYEUR**
- [72] HERNANDEZ, JUAN EDUARDO BUSTAMANTE, CL
- [72] SINHA, ABHISHEK, IN
- [71] TEGA INDUSTRIES LIMITED, IN
- [85] 2023-11-06
- [86] 2022-11-26 (PCT/IN2022/051033)
- [87] (WO2023/100194)
- [30] IN (20231056287) 2021-12-04

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  - [25] EN
  - [54] **FILLING APPARATUS AND METHOD FOR AUTOMATICALLY FILLING CONTAINERS**
  - [54] **APPAREIL DE REMPLISSAGE ET PROCEDE POUR REMPLIR AUTOMATIQUEMENT DES CONTENANTS**
  - [72] DRAGHETTI, FIORENZO, IT
  - [71] I.M.A. INDUSTRIA MACCHINE AUTOMATICHE S.P.A, IT
  - [85] 2023-11-06
  - [86] 2022-05-20 (PCT/IT2022/050139)
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  - [30] IT (102021000013220) 2021-05-20
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- [54] **INJECTABLE, BIODEGRADABLE AND REMOVABLE POLYMER BASED DRUG SUSPENSION FOR ULTRA-LONG-ACTING DRUG DELIVERY**
- [54] **SUSPENSION DE MEDICAMENT A BASE DE POLYMERÉE INJECTABLE, BIODEGRADABLE ET AMOVIBLE POUR ADMINISTRATION DE MEDICAMENT A ACTION ULTRA-PROLONGEE**
- [72] BENHABBOUR, SOUMYA RAHIMA, US
- [72] MATORA VONGSADIT, PANITA, US
- [72] SHRIVASTAVA, ROOPALI, US
- [72] YOUNG, ISABELLA C., US
- [71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
- [85] 2023-11-06
- [86] 2022-06-30 (PCT/US2022/035713)
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  - [25] EN
  - [54] **CONTAMINANT REMOVAL WITH SORBENT BEDS FOR LNG PROCESSING**
  - [54] **ELIMINATION DE CONTAMINANTS AVEC DES LITS DE SORBANT POUR LE TRAITEMENT DE GNL**
  - [72] QUALLS, WESLEY R., US
  - [72] WIDNER, CHRISTOPHER M., US
  - [72] SLATER, PETER N., US
  - [71] CONOCOPHILLIPS COMPANY, US
  - [85] 2023-11-06
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- [25] EN
- [54] **FUSED HETEROCYCLIC DERIVATIVES**
- [54] **DERIVES HETEROCYCLIQUES FUSIONNES**
- [72] LU, CHUNLIANG, CN
- [72] LI, XIAOYU, CN
- [72] LIU, LIANZHU, CN
- [72] DENG, GANG, CN
- [72] LIU, ZHIGUO, CN
- [72] TANG, BINGQING, CN
- [72] CAI, WEI, CN
- [72] CHENG, ZHANLING, CN
- [72] GROSSE, SANDRINE CELINE, BE
- [72] VANDYCK, KOEN, BE
- [72] JACOBY, EDGAR, BE
- [72] JONCKERS, TIM HUGO MARIA, BE
- [72] RABOISSON, PIERRE JEAN-MARIA BERNARD, BE
- [72] KUDUK, SCOTT D., US
- [72] DERATT, LINDSEY GRAHAM, US
- [71] JANSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
- [85] 2023-11-06
- [86] 2022-06-01 (PCT/CN2022/096535)
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- [30] CN (PCT/CN2021/097847) 2021-06-02
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- [25] EN
- [54] WATER-BASED RADIATION-CURABLE COMPOSITION FOR SOFT FEEL APPLICATIONS
- [54] COMPOSITION DURCISSEABLE PAR RAYONNEMENT A BASE D'EAU POUR DES APPLICATIONS DE TOUCHER DOUX
- [72] MCCLUNG, JENNIFER, US
- [72] HUTCHINS, MARCUS, US
- [72] SIBAND, ELODIE, BE
- [71] ALLNEX USA INC., US
- [85] 2023-11-06
- [86] 2022-06-09 (PCT/US2022/032830)
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- [30] US (63/217,989) 2021-07-02
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- [25] EN
- [54] RIP1 MODULATORS INCLUDING AZETIDINE CYCLIC UREAS, PREPARATIONS, AND USES THEREOF
- [54] MODULATEURS DE RIP1 COMPRENANT DES UREES CYCLIQUES D'AZETIDINE, PREPARATIONS ET UTILISATIONS DE CEUX-CI
- [72] ZHANG, ZHAOLAN, CN
- [72] ZHANG, ZHIYUAN, CN
- [72] SU, YANING, CN
- [72] XU, YANPING, CN
- [71] SIRONAX LTD., KY
- [85] 2023-11-06
- [86] 2022-05-16 (PCT/CN2022/092907)
- [87] (WO2022/242581)
- [30] CN (PCT/CN2021/094944) 2021-05-20

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- [54] MOTOR POSITION ESTIMATION USING CURRENT RIPPLES
- [54] ESTIMATION DE POSITION DE MOTEUR AU MOYEN D'ONDULATIONS DE COURANT
- [72] YANG, HANLONG, US
- [72] KOBBERSTAD, MATTHEW J., US
- [71] MAGNA SEATING INC., CA
- [85] 2023-11-06
- [86] 2022-05-20 (PCT/US2022/030226)
- [87] (WO2022/246176)
- [30] US (63/190,995) 2021-05-20

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- [54] ADRENOMEDULLINE MATURE PERMETTANT UNE STRATIFICATION THERAPEUTIQUE DE CORTICOSTEROIDES CHEZ DES PATIENTS GRAVEMENT MALADES
- [72] BERGMANN, DEBORAH, DE
- [72] UHLE, FLORIAN, DE
- [71] SPHINGOTEC GMBH, DE
- [85] 2023-11-06
- [86] 2022-05-06 (PCT/EP2022/062322)
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- [54] PRODUIT ALIMENTAIRE COMPRENANT UNE CO-CULTURE DE BACTERIES ET DE CHAMPIGNONS
- [72] PALERMO, ANNE, US
- [72] SCHULTZ, ROBERT, US
- [71] AQUACULTURED FOODS, INC., US
- [85] 2023-11-06
- [86] 2022-05-14 (PCT/US2022/029353)
- [87] (WO2022/245683)
- [30] US (63/189,314) 2021-05-17
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- [25] EN
- [54] WIDE-BAND AUTOMATED GAIN CONTROL FOR BURSTY FRAMES
- [54] COMMANDE DE GAIN AUTOMATISEE A LARGE BANDE POUR DES CADRES EN RAFALE
- [72] CADENA, JORGE, US
- [71] HUGHES NETWORK SYSTEMS, LLC, US
- [85] 2023-11-06
- [86] 2022-05-15 (PCT/US2022/072334)
- [87] (WO2022/246380)
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[25] EN  
[54] NEW CRYSTALLINE POLYMORPHIC FORM OF PSILOCIN  
[54] NOUVELLE FORME POLYMORPHE CRISTALLINE DE PSILOCINE  
[72] SCHULTHEISS, NATE, US  
[72] HOUSTON, TRAVIS LEE, US  
[72] PARENT, STEPHAN D., US  
[71] CANNA-CHEMISTRIES LLC, US  
[85] 2023-11-06  
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[87] (WO2022/235912)  
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[51] Int.Cl. C05G 5/20 (2020.01) C05F  
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[25] EN  
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[54] COMPOSITIONS D'ENGRAIS POUR PLANTES ET PROCEDES ASSOCIES POUR AMELIORER LA SOLUBILITE DU PHOSPHORE  
[72] WOZNIAK, ELIZABETH MARIA, US  
[71] CYTOZYME LABORATORIES, INC., US  
[85] 2023-11-06  
[86] 2021-08-04 (PCT/US2021/044538)  
[87] (WO2022/031845)  
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[51] Int.Cl. A61F 9/008 (2006.01)  
[25] EN  
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[54] SYSTEME ET PROCEDE D'IRRADIATION RETINIENNE POUR AMELIORER LA FONCTION ET LA SANTE OCULAIRES DANS UN ?IL VIEILLISSANT NORMALEMENT  
[72] LUTTRULL, JEFFREY K., US  
[71] OJAI RETINAL TECHNOLOGY, LLC, US  
[85] 2023-11-06  
[86] 2022-05-03 (PCT/US2022/027447)  
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[25] EN  
[54] TOPICAL COMPOSITIONS CONTAINING MANUKA OIL AND PALMAROSA OIL FOR TREATING SKIN CONDITIONS  
[54] COMPOSITIONS TOPIQUES CONTENANT DE L'HUILE DE MANUKA ET DE L'HUILE DE PALMAROSA POUR TRAITER DES AFFECTIONS CUTANEES  
[72] GILMOUR, ROBERT, AU  
[72] CAIRNS, STUART H., NZ  
[72] HARDING, SUKI, NZ  
[71] MANUKA THERAPEUTICS LTD., NZ  
[85] 2023-11-06  
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[51] Int.Cl. C12C 11/06 (2006.01)  
[25] EN  
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[54] PROCEDES DE FABRICATION DE PRODUITS ALIMENTAIRES ET DE BOISSONS FERMENTES A L'AIDE DE LEVURE GY7B  
[72] FARBER, MATTHEW J., US  
[71] SAINT JOSEPH'S UNIVERSITY, US  
[85] 2023-11-06  
[86] 2022-05-05 (PCT/US2022/027756)  
[87] (WO2022/235856)  
[30] US (63/185,698) 2021-05-07

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[25] EN  
[54] METHODS OF USING ANTI-CD79B IMMUNOCONJUGATES TO TREAT DIFFUSE LARGE B-CELL LYMPHOMA  
[54] METHODES D'UTILISATION D'IMMUNOCONJUGUES ANTI-CD79B POUR TRAITER UN LYMPHOME DIFFUS A GRANDES CELLULES B  
[72] HIRATA, JAMIE HARUE, US  
[72] MUSICK, LISA LINNEA, US  
[71] GENENTECH, INC., US  
[85] 2023-11-06  
[86] 2022-05-11 (PCT/US2022/072267)  
[87] (WO2022/241446)  
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[54] SCHEMAS POSOLOGIQUES POUR L'ECUBECTEDINE  
[72] KAHATT, CARMEN, ES  
[72] LARDELLI, PILAR, ES  
[72] FERNANDEZ, CRISTIAN, ES  
[72] SOTO, ARTURO, ES  
[71] PHARMA MAR, S.A., ES  
[85] 2023-11-06  
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(2020.01) A24F 40/50 (2020.01) A24F  
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[25] EN  
[54] AEROSOL GENERATING DEVICE  
[54] DISPOSITIF DE GENERATION  
D'AEROSOL  
[72] KIM, DONG SUNG, KR  
[72] KWON, YOUNG BUM, KR  
[72] KIM, YONG HWAN, KR  
[72] LIM, HUN IL, KR  
[72] JANG, SEOK SU, KR  
[71] KT&G CORPORATION, KR  
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[87] (WO2023/085816)  
[30] KR (10-2021-0155187) 2021-11-11  
[30] KR (10-2022-0049105) 2022-04-20

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[25] FR  
[54] MICROFLUIDIC CHIP FOR  
ATTRACTING AND TRAPPING A  
SPECIFIC BIOLOGICAL  
ELEMENT  
[54] PUCE MICROFLUIDIQUE POUR  
ATTIRER ET PIEGER UN  
ELEMENT BIOLOGIQUE  
SPECIFIQUE  
[72] RAMIREZ, JEAN-MARIE, FR  
[72] CHARLOT, BENOIT, FR  
[72] MEANCE, SEBASTIEN, FR  
[72] GARRIC, XAVIER, FR  
[72] PINSE, COLINE, FR  
[72] GUIRAUD, ISABELLE, FR  
[71] UNIVERSITE DE MONTPELLIER  
(UM), FR  
[71] CENTRE NATIONAL DE LA  
RECHERCHE SCIENTIFIQUE-CNRS,  
FR  
[71] ECOLE NATIONALE SUPERIEURE  
DE CHIMIE DE MONTPELLIER  
(ENSCM), FR  
[85] 2023-11-06  
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[30] FR (FR2105106) 2021-05-17

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[25] EN  
[54] CONTAINER ASSEMBLY FOR  
MICROBIOREACTOR  
[54] ENSEMBLE RECIPIENT POUR  
MICROBIOREACTEUR  
[72] FRISCHE, NIKLAS, US  
[72] MEYERSIECK, DAVID, US  
[72] SATTLER, SIMON, US  
[72] KREMERS, ALEXANDER, US  
[71] BECKMAN COULTER, INC., US  
[71] FRISCHE, NIKLAS, US  
[71] MEYERSIECK, DAVID, US  
[71] SATTLER, SIMON, US  
[71] KREMERS, ALEXANDER, US  
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[87] (WO2022/236146)  
[30] US (63/185,650) 2021-05-07  
[30] US (63/227,210) 2021-07-29  
[30] US (63/301,982) 2022-01-21

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[13] A1

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[25] EN  
[54] MULTI-SEGMENT HEADER FOR  
AN AGRICULTURAL  
HARVESTER  
[54] COLLECTEUR A SEGMENTS  
MULTIPLES POUR  
MOISSONNEUSE AGRICOLE  
[72] COOK, JOEL T., US  
[72] CONWAY, CORY M., US  
[72] KOPP, JAMES, US  
[72] NOLL, BLAINE R., US  
[71] CNH INDUSTRIAL AMERICA LLC,  
US  
[85] 2023-11-06  
[86] 2022-05-24 (PCT/US2022/030686)  
[87] (WO2022/251185)  
[30] US (63/192,238) 2021-05-24

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[25] EN  
[54] CONTAINER ASSEMBLY FOR  
MICROBIOREACTOR  
[54] ENSEMBLE RECIPIENT POUR  
MICROBIOREACTEUR  
[72] KREMERS, ALEXANDER, US  
[72] MEYERSIECK, DAVID, US  
[72] SATTLER, SIMON, US  
[71] BECKMAN COULTER, INC., US  
[71] KREMERS, ALEXANDER, US  
[71] MEYERSIECK, DAVID, US  
[71] SATTLER, SIMON, US  
[85] 2023-11-06  
[86] 2022-05-06 (PCT/US2022/028201)  
[87] (WO2022/236141)  
[30] US (63/185,650) 2021-05-07  
[30] US (63/227,210) 2021-07-29

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**[21] 3,218,178**  
[13] A1

- [51] Int.Cl. E05F 15/74 (2015.01)
  - [25] EN
  - [54] METHODS AND APPARATUS TO MONITOR AND/OR ADJUST OPERATIONS OF DOORS
  - [54] PROCEDES ET APPAREIL POUR SURVEILLER ET/OU AJUSTER DES MANOEUVRES DE PORTES
  - [72] BEGGS, RYAN, US
  - [72] BOMHACK, MICAELA, US
  - [72] CAMPBELL, STEVEN HART, US
  - [72] KNUTSON, PERRY, US
  - [72] LEWAN, DEREK, US
  - [72] MAST, QUINN, US
  - [72] PELEGREN, JAMES, US
  - [72] PFAFF, RYAN, US
  - [72] RITTER, JOHN, US
  - [72] SCHUMACHER, JON, US
  - [72] SIVILL, MICHAEL, US
  - [72] SUNDQUIST, MARC, US
  - [72] VANDERMILLEN, DANIEL, US
  - [71] RITE-HITE HOLDING CORPORATION, US
  - [85] 2023-11-06
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  - [87] (WO2022/235891)
  - [30] US (63/185,838) 2021-05-07
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- [51] Int.Cl. A24F 40/40 (2020.01) A24F 40/20 (2020.01) A24F 40/85 (2020.01)
- [25] EN
- [54] AEROSOL GENERATING DEVICE
- [54] DISPOSITIF DE GENERATION D'AEROSOL
- [72] KIM, DONG SUNG, KR
- [72] KIM, YONG HWAN, KR
- [72] LIM, HUNIL, KR
- [72] JANG, SEOK SU, KR
- [71] KT & G CORPORATION, KR
- [85] 2023-11-06
- [86] 2022-11-22 (PCT/KR2022/018450)
- [87] (WO2023/096291)
- [30] KR (10-2021-0162170) 2021-11-23

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  - [25] EN
  - [54] AEROSOL GENERATING DEVICE
  - [54] DISPOSITIF DE GENERATION D'AEROSOL
  - [72] KIM, DONG SUNG, KR
  - [72] KWON, YOUNG BUM, KR
  - [72] KIM, YONG HWAN, KR
  - [72] LIM, HUN IL, KR
  - [72] JANG, SEOK SU, KR
  - [71] KT&G CORPORATION, KR
  - [85] 2023-11-06
  - [86] 2022-11-10 (PCT/KR2022/017669)
  - [87] (WO2023/085818)
  - [30] KR (10-2021-0155184) 2021-11-11
  - [30] KR (10-2022-0063588) 2022-05-24
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- [51] Int.Cl. H04W 28/08 (2023.01) H04L 45/24 (2022.01) H04L 69/14 (2022.01)
- [25] EN
- [54] MOBILITY MULTI-TRANSPORT SOFTWARE DEFINED WIDE AREA NETWORK
- [54] RESEAU ETENDU DEFINI PAR LOGICIEL A TRANSPORT MULTIPLE EN MOBILITE
- [72] DILLON, DOUGLAS, US
- [71] HUGHES NETWORK SYSTEMS, LLC, US
- [85] 2023-11-06
- [86] 2022-05-15 (PCT/US2022/072335)
- [87] (WO2022/251786)
- [30] US (63/194,763) 2021-05-28
- [30] US (17/645,969) 2021-12-24

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  - [25] EN
  - [54] CYCLIC COMPOUND HAVING SELECTIVE INHIBITORY ACTION ON KRAS OVER HRAS AND NRAS
  - [54] COMPOSE CYCLIQUE AYANT UN EFFET INHIBITEUR SELECTIF POUR KRAS MAIS PAS POUR HRAS ET NRAS
  - [72] KAWADA, HATSUO, JP
  - [72] TAKANO, KOJI, JP
  - [72] KOTAKE, TOMOYA, JP
  - [72] KAGE, MIRAI, JP
  - [72] HASHIMOTO, SATOSHI, JP
  - [72] TAMIYA, MINORU, JP
  - [72] WAKAMIYA, YUMA, JP
  - [72] HAYASHI, RYUJI, JP
  - [72] MORITA, YUYA, JP
  - [71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/JP2022/019544)
  - [87] (WO2022/234853)
  - [30] JP (2021-079012) 2021-05-07
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- [25] EN
- [54] AN ARRANGEMENT AND A METHOD FOR STORING THERMAL ENERGY IN THE GROUND
- [54] AGENCEMENT ET PROCEDE DE STOCKAGE D'ENERGIE THERMIQUE DANS LE SOL
- [72] ISAKSSON, JAKOB, SE
- [72] HOGMALM, KARL JOHAN, SE
- [71] ISAKSSON, JAKOB, SE
- [71] HOGMALM, KARL JOHAN, SE
- [85] 2023-11-06
- [86] 2022-05-05 (PCT/SE2022/050440)
- [87] (WO2022/240336)
- [30] SE (2150613-4) 2021-05-12

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  - [25] EN
  - [54] METHOD FOR PHOTOGRAPHING OBJECT FOR IDENTIFYING COMPANION ANIMAL, AND ELECTRONIC DEVICE
  - [54] PROCEDE POUR PHOTOGRAPHIER UN OBJET POUR IDENTIFIER UN ANIMAL DE COMPAGNIE, ET DISPOSITIF ELECTRONIQUE
  - [72] PAK, DAE HYUN, KR
  - [72] LIM, JOON HO, KR
  - [71] PETNOW INC., KR
  - [85] 2023-11-06
  - [86] 2022-06-27 (PCT/KR2022/009095)
  - [87] (WO2023/277473)
  - [30] KR (10-2021-0083753) 2021-06-28
  - [30] KR (10-2021-0083754) 2021-06-28
  - [30] KR (10-2021-0083841) 2021-06-28
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  - [25] EN
  - [54] AEROSOL GENERATING APPARATUS AND METHOD OF CONTROLLING SAME
  - [54] APPAREIL DE GENERATION D'AEROSOL ET SON PROCEDE DE COMMANDE
  - [72] KIM, YONG HWAN, KR
  - [72] KIM, DONG SUNG, KR
  - [72] LIM, HUN IL, KR
  - [72] JANG, SEOK SU, KR
  - [71] KT&G CORPORATION, KR
  - [85] 2023-11-06
  - [86] 2023-02-10 (PCT/KR2023/001963)
  - [87] (WO2023/153852)
  - [30] KR (10-2022-0018327) 2022-02-11
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- [51] Int.Cl. C04B 28/08 (2006.01)
  - [25] EN
  - [54] ACCELERATORS FOR THE REACTION OF STEELMAKING SLAG WITH WATER
  - [54] ACCELERATEURS POUR LA REACTION DE LAITIER D'ACIERIE AVEC DE L'EAU
  - [72] SOUDIER, JEROME, FR
  - [72] LEVESQUE, OLIVIER, FR
  - [72] QUESADA, JAVIER, ES
  - [72] GOUY-PAILLER, JORIS, FR
  - [72] GARCIA, RAMIRO, ES
  - [71] SIKA TECHNOLOGY AG, CH
  - [85] 2023-11-06
  - [86] 2022-05-10 (PCT/EP2022/062585)
  - [87] (WO2022/238376)
  - [30] EP (21305603.9) 2021-05-10
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[13] A1

- [51] Int.Cl. A61K 9/10 (2006.01) A61K 31/5415 (2006.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01)
  - [25] EN
  - [54] WATER SOLUBLE COMPLEX COMPOSITIONS AND METHODS THEREOF
  - [54] COMPOSITIONS COMPLEXES HYDROSOLUBLES ET PROCEDES ASSOCIES
  - [72] SMITH, PATRICK JOHN, US
  - [71] VETERINARY PHARMACY CORPORATION, US
  - [85] 2023-11-06
  - [86] 2022-05-27 (PCT/US2022/072617)
  - [87] (WO2022/251876)
  - [30] US (63/194,483) 2021-05-28
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- [25] EN
  - [54] FC MUTANT WITH ALTERED BINDING TO FC RECEPTOR
  - [54] MUTANT FC PRESENTANT UNE LIAISON MODIFIEE AU RECEPTEUR FC
  - [72] FU, FENGGEN, CN
  - [72] ZHOU, SHUAIXIANG, CN
  - [72] WU, ZHIHAI, CN
  - [71] INNOVENT BIOLOGICS (SUZHOU) CO., LTD., CN
  - [85] 2023-11-06
  - [86] 2022-05-06 (PCT/CN2022/091187)
  - [87] (WO2022/233320)
  - [30] CN (202110495363.7) 2021-05-07
  - [30] CN (202210436873.1) 2022-04-25
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[13] A1

- [51] Int.Cl. A61K 31/20 (2006.01) A23L 33/12 (2016.01) A61K 47/50 (2017.01) A61K 47/64 (2017.01) A61K 47/69 (2017.01) A61K 31/19 (2006.01) A61K 31/197 (2006.01) A61K 31/198 (2006.01) A61K 31/201 (2006.01) A61K 31/202 (2006.01)
  - [25] FR
  - [54] COMPOSITIONS AND USE THEREOF FOR RESTABLISHING INTESTINAL PERMEABILITY AND/OR PREVENTING OR COMBATTING MULTIFACTORIAL DISEASES
  - [54] COMPOSITIONS ET LEUR UTILISATION POUR RETABLIR LA PERMEABILITE INTESTINALE ET/OU PREVENIR OU LUTTER CONTRE DES MALADIES MULTIFACTORIELLES
  - [72] ZAMBAUX, JEAN-PASCAL, FR
  - [71] PLL THERAPEUTICS, FR
  - [85] 2023-11-06
  - [86] 2022-05-10 (PCT/EP2022/062638)
  - [87] (WO2022/238403)
  - [30] FR (FR2104928) 2021-05-10
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[13] A1

- [51] Int.Cl. E06B 9/32 (2006.01)
- [25] EN
- [54] DEVICE FOR CONTROLLING OPENING AND CLOSING OF WINDOW BLINDS
- [54] DISPOSITIF DE COMMANDE D'OUVERTURE ET DE FERMETURE DE STORES
- [72] LI, BO, CA
- [72] WANG, XING YU, CA
- [72] RAMAN, AJAY, CA
- [71] IDEA OVEN LABS INC., CA
- [85] 2023-11-06
- [86] 2022-04-28 (PCT/CA2022/050654)
- [87] (WO2022/246537)
- [30] US (63/193,374) 2021-05-26

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<p style="text-align: right;"><b>[21] 3,218,191</b></p> <p style="text-align: right;">[13] A1</p> <p>[25] EN</p> <p><b>[54] COMPOSITIONS FOR TREATMENT OF NEURODEGENERATIVE CONDITIONS</b></p> <p><b>[54] COMPOSITIONS POUR TRAITEMENT D'AFFECTIONS NEURODEGENERATIVES</b></p> <p>[72] AHLEM, CLARENCE NATHANIEL, US</p> <p>[72] READING, CHRISTOPHER L., US</p> <p>[71] BIOVIE INC., US</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-02 (PCT/US2022/027294)</p> <p>[87] (WO2022/245532)</p> <p>[30] US (63/189,880) 2021-05-18</p>	<p style="text-align: right;"><b>[21] 3,218,193</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. G06Q 20/40 (2012.01)</p> <p>[25] EN</p> <p><b>[54] THIRD PARTY DATA PROCESSING FOR IMPROVEMENT OF AUTHENTICATION QUESTIONS</b></p> <p><b>[54] TRAITEMENT DE DONNEES DE TIERS POUR L'AMELIORATION DE QUESTIONS D'AUTHENTIFICATION</b></p> <p>[72] EDWARDS, JOSHUA, US</p> <p>[72] VADREVU, VYJAYANTHI, US</p> <p>[72] MAIMAN, TYLER, US</p> <p>[72] CHAUDHARY, VIRAJ, US</p> <p>[72] MILLER, DANIEL, US</p> <p>[72] SEPTIMUS, DAVID, US</p> <p>[72] MELENDEZ, JENNY, US</p> <p>[72] RAPOWITZ, SAMUEL, US</p> <p>[71] CAPITAL ONE SERVICES, LLC, US</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-06 (PCT/US2022/072151)</p> <p>[87] (WO2022/236312)</p> <p>[30] US (17/314,673) 2021-05-07</p>	<p style="text-align: right;"><b>[21] 3,218,195</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. C12N 15/90 (2006.01)</p> <p>[25] EN</p> <p><b>[54] ABCA4 GENOME EDITING</b></p> <p><b>[54] EDITION DU GENOME ABCA4</b></p> <p>[72] ALI, ROBIN, GB</p> <p>[72] SMITH, ALEXANDER, GB</p> <p>[72] CORTES, LETICIA AGUNDEZ, GB</p> <p>[72] CORDERO, ANAI GONZALEZ, GB</p> <p>[71] UCL BUSINESS LTD, GB</p> <p>[71] KING'S COLLEGE LONDON, GB</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-06 (PCT/GB2022/051163)</p> <p>[87] (WO2022/234295)</p> <p>[30] GB (2106516.4) 2021-05-07</p>
<p style="text-align: right;"><b>[21] 3,218,192</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. C04B 20/02 (2006.01) C04B 28/02 (2006.01)</p> <p>[25] EN</p> <p><b>[54] METHODS FOR THE RETRIEVAL OF AGGREGATE FROM WASTE CONSTRUCTION MATERIAL BY GRINDING</b></p> <p><b>[54] PROCEDES POUR LA RECUPERATION DE GRANULATS A PARTIR DE DECHETS DE CONSTRUCTION PAR BROYAGE</b></p> <p>[72] EBERHARDT, BERND ARND, CH</p> <p>[72] FRUNZ, LUKAS, CH</p> <p>[72] JUILLAND, PATRICK, CH</p> <p>[72] GALLUCCI, EMMANUEL, CH</p> <p>[72] MUTHS-KERN, DENISE, CH</p> <p>[72] PEGADO, LUIS, CH</p> <p>[71] SIKA TECHNOLOGY AG, CH</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-05 (PCT/EP2022/062121)</p> <p>[87] (WO2022/238225)</p> <p>[30] EP (21173122.9) 2021-05-10</p>	<p style="text-align: right;"><b>[21] 3,218,194</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01)</p> <p>[25] EN</p> <p><b>[54] NITROGEN-CONTAINING HETEROCYCLIC COMPOUND</b></p> <p><b>[54] COMPOSE HETEROCYCLIQUE CONTENANT DE L'AZOTE</b></p> <p>[72] WU, YUCHUAN, CN</p> <p>[72] LIU, XIAO, CN</p> <p>[72] XIE, YONGHUA, CN</p> <p>[72] CHEN, XI, CN</p> <p>[72] HAO, RUI, CN</p> <p>[72] HU, YONGHAN, CN</p> <p>[71] EVOPOINT BIOSCIENCES CO., LTD., CN</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-11 (PCT/CN2022/092182)</p> <p>[87] (WO2022/237830)</p> <p>[30] CN (202110511570.7) 2021-05-11</p> <p>[30] CN (202111114252.3) 2021-09-23</p> <p>[30] CN (202210086937.X) 2022-01-25</p>	<p style="text-align: right;"><b>[21] 3,218,196</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A62D 3/33 (2007.01) A62D 3/36 (2007.01) A62B 18/02 (2006.01) D06M 11/46 (2006.01)</p> <p>[25] EN</p> <p><b>[54] ADSORBENT MATERIAL</b></p> <p><b>[54] MATERIAU ADSORBANT</b></p> <p>[72] MISTRY, KAMLESH MADHUBHAI, GB</p> <p>[71] HEATHCOAT FABRICS LIMITED, GB</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-12 (PCT/GB2022/051212)</p> <p>[87] (WO2022/243658)</p> <p>[30] GB (2107040.4) 2021-05-17</p> <p>[30] US (17/364,101) 2021-06-30</p>
<p style="text-align: right;"><b>[21] 3,218,197</b></p> <p style="text-align: right;">[13] A1</p> <p>[51] Int.Cl. A61K 47/64 (2017.01) A61K 47/69 (2017.01) A61K 31/198 (2006.01) A61K 45/06 (2006.01)</p> <p>[25] FR</p> <p><b>[54] COMPOSITIONS OF POLYLYSINE CONJUGATES AND OF MICELLES AND/OR COPOLYMERS OF POLYLYSINE</b></p> <p><b>[54] COMPOSITIONS DE CONJUGUES POLY-LYSINE ET DE MICELLES ET/OU DE COPOLYMERES DE POLY-LYSINE</b></p> <p>[72] ZAMBAUX, JEAN-PASCAL, FR</p> <p>[71] PLL THERAPEUTICS, FR</p> <p>[85] 2023-11-06</p> <p>[86] 2022-05-10 (PCT/EP2022/062634)</p> <p>[87] (WO2022/238400)</p> <p>[30] FR (FR2104925) 2021-05-10</p>		

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[51] Int.Cl. C09K 8/035 (2006.01) C09K 8/12 (2006.01)  
[25] EN  
[54] WELLBORE DRILLING COMPOSITIONS  
[54] COMPOSITIONS POUR FORAGE DE PUITS  
[72] RAMIREZ, MARIO, US  
[72] DINA, OYINDUNMOLA, US  
[72] WATSON, ELAN, US  
[72] STOUFFER, CARLETON, US  
[72] BISHOP, MARSHALL D., US  
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US  
[85] 2023-10-27  
[86] 2022-03-17 (PCT/US2022/020782)  
[87] (WO2022/231723)  
[30] US (17/241,505) 2021-04-27

[21] **3,218,200**  
[13] A1

[51] Int.Cl. H05B 6/70 (2006.01) H01P 1/08 (2006.01)  
[25] EN  
[54] A BROADBAND MICROWAVE WINDOW ASSEMBLY  
[54] ENSEMBLE FENETRE A MICRO-ONDES A LARGE BANDE  
[72] HJORTSHØJ, ANDERS, DK  
[72] PEDERSEN, JENS CHRISTIAN, DK  
[72] LETH-ESPENSEN, POUL, DK  
[71] ORGANIC FUEL TECHNOLOGY A/S, DK  
[85] 2023-10-27  
[86] 2022-05-04 (PCT/EP2022/061988)  
[87] (WO2022/233940)  
[30] DK (PA 2021 70211) 2021-05-05

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[13] A1

[51] Int.Cl. C09J 175/04 (2006.01) B01D 69/12 (2006.01) C08G 18/10 (2006.01) C08G 18/76 (2006.01) C08L 91/06 (2006.01) C09J 11/02 (2006.01)  
[25] EN  
[54] GREEN ALTERNATIVE POLYURETHANE ADHESIVE  
[54] ADHESIF EN POLYURETHANE DE REMPLACEMENT VERT  
[72] PALLIARDI, MARY E., US  
[72] CHENG, CHIH-MIN, US  
[71] HENKEL AG & CO. KGAA, DE  
[85] 2023-10-27  
[86] 2022-04-19 (PCT/US2022/025264)  
[87] (WO2022/240551)  
[30] US (63/186,352) 2021-05-10

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[51] Int.Cl. G06F 16/9032 (2019.01) G06F 16/9535 (2019.01) G06N 20/00 (2019.01) G06F 40/30 (2020.01)  
[25] EN  
[54] SYSTEMS AND METHODS FOR INTENT DISCOVERY AND PROCESS EXECUTION  
[54] SYSTEMES ET PROCEDES DESTINES A LA DECOUVERTE D'INTENTIONS ET A L'EXECUTION DE PROCESSUS  
[72] DUNN, MATTHEW, US  
[72] HIGGINS, MICHAEL, US  
[71] LIVEPERSON, INC., US  
[85] 2023-11-07  
[86] 2022-05-20 (PCT/US2022/030205)  
[87] (WO2022/251054)  
[30] US (63/192,312) 2021-05-24

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[13] A1

[51] Int.Cl. C12N 15/82 (2006.01)  
[25] EN  
[54] CLUBROOT RESISTANCE IN BRASSICA  
[54] RESISTANCE A LA HERNIE CHEZ LES BRASSICA  
[72] ATWOOD, SARAH, US  
[72] BOHN, JENNIFER, US  
[72] CHILAKAMARRI, SUNITA R., US  
[72] FALAK, IGOR, US  
[72] HUANG, XIUQIANG, CA  
[72] JETTY, SIVA S. AMMIRAJU, US  
[72] JOBGEN, SCOTT CHARLES, US  
[71] PIONEER HI-BRED INTERNATIONAL, INC., US  
[85] 2023-10-27  
[86] 2022-04-27 (PCT/US2022/026519)  
[87] (WO2022/232258)  
[30] US (63/181,608) 2021-04-29

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[13] A1

[51] Int.Cl. G01S 7/02 (2006.01)  
[25] EN  
[54] LOW SWAP APERTURE FOR DIRECTION FINDING ACROSS EXTREME WIDE BAND  
[54] OUVERTURE A FAIBLES TAILLE, POIDS ET PUISSANCE POUR RECHERCHE DE DIRECTION DANS UNE BANDE EXTREMEMENT LARGE  
[72] WHORF, JOSHUA A., US  
[72] VITAZ, JACQUELYN A., US  
[72] CARSON, STEVEN, US  
[72] SEKELSKY, STEPHEN, US  
[72] WANGSVICK, CHAD, US  
[71] RAYTHEON COMPANY, US  
[85] 2023-10-27  
[86] 2022-04-27 (PCT/US2022/026533)  
[87] (WO2022/232269)  
[30] US (17/242,347) 2021-04-28

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[25] EN  
[54] THERAPEUTIC COMPOSITIONS FOR TREATING PAIN VIA MULTIPLE TARGETS  
[54] COMPOSITIONS THERAPEUTIQUES POUR TRAITER LA DOULEUR PAR L'INTERMEDIAIRE DE MULTIPLES CIBLES  
[72] DEMPSEY, GRAHAM T., US  
[72] MCMANUS, OWEN, US  
[72] ZHANG, HONGKANG, US  
[72] GERBER, DAVID, US  
[72] LIU, PIN, US  
[72] ZHANG, DAEWEI, US  
[72] BROWN, DUNCAN, US  
[72] AGRAWAL, SUDHIR, US  
[72] LEWARCH, CAITLIN, US  
[71] Q-STATE BIOSCIENCES, INC., US  
[85] 2023-10-27  
[86] 2022-04-28 (PCT/US2022/026738)  
[87] (WO2022/232395)  
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- [25] EN
- [54] DATA-DRIVEN TAXONOMY FOR ANNOTATION RESOLUTION
- [54] TAXONOMIE ENTRAINEE PAR DES DONNEES POUR UNE RESOLUTION D'ANNOTATION
- [72] DUNN, MATTHEW, US
- [72] HIGGINS, MICHAEL, US
- [71] LIVEPERSON, INC., US
- [85] 2023-11-07
- [86] 2022-05-24 (PCT/US2022/030665)
- [87] (WO2022/251172)
- [30] US (63/192,314) 2021-05-24

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- [25] EN
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- [54] OLIGONUCLEOTIDES ANTISENS ET LEUR UTILISATION POUR LE TRAITEMENT DE TROUBLES NEURODEGENERATIFS
- [72] VATHIPADIEKAL, VINOD, US
- [72] MITASEV, BRANKO, US
- [72] EASLEY-NEAL, COURTNEY, US
- [72] CHOI, HYEONG WOOK, US
- [72] FANG, FRANK, US
- [72] WANG, JOHN, US
- [72] VEMULA, PRAVEEN, US
- [72] LEE, JUNG HWA, US
- [71] EISAI R&D MANAGEMENT CO., LTD., JP
- [85] 2023-10-27
- [86] 2022-04-28 (PCT/US2022/026760)
- [87] (WO2022/232411)
- [30] US (63/181,023) 2021-04-28
- [30] US (63/320,651) 2022-03-16
- [30] US (63/334,496) 2022-04-25

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- [25] EN
- [54] MULTIPLEX CRISPR/CAS9-MEDIATED TARGET GENE ACTIVATION SYSTEM
- [54] SYSTEME D'ACTIVATION DE GENE CIBLE A MEDIATION PAR CRISPR/CAS9 MULTIPLEX
- [72] IZPISUA BELMONTE, JUAN CARLOS, US
- [72] WANG, CHAO, US
- [72] LIAO, HSIN-KAI, US
- [72] REDDY, PRADEEP, US
- [71] SALK INSTITUTE FOR BIOLOGICAL STUDIES, US
- [85] 2023-10-27
- [86] 2022-04-28 (PCT/US2022/026805)
- [87] (WO2022/232442)
- [30] US (63/181,059) 2021-04-28

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- [25] EN
- [54] RESORCINOL DERIVATIVE AS A PHARMACEUTICALLY ACTIVE COMPOUND AND METHOD OF PREPARATION THEREOF
- [54] DERIVE DE RESORCINOL UTILISE EN TANT QUE COMPOSE PHARMACEUTIQUEMENT ACTIF ET SON PROCEDE DE PREPARATION
- [72] SILCOCK, ALAN JAMES, GB
- [72] TSE, KAREN KA-YEN, GB
- [72] OSBORNE, JAMES DANIEL, GB
- [72] HINCHLIFFE, PAUL STUART, GB
- [72] SHARPE, ANDREW, GB
- [71] GW RESEARCH LIMITED, GB
- [85] 2023-11-07
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- [25] EN
- [54] SUBSTITUTED TRIAZINE COMPOUND
- [54] COMPOSE TRIAZINE SUBSTITUE
- [72] INAGAKI, YUSUKE, JP
- [72] YAMASHITA, YUMI, JP
- [72] TOYA, HIROKI, JP
- [72] WASHIO, TAKUYA, JP
- [72] TAKAHASHI, FUMIE, JP
- [72] SABA, KENGO, JP
- [72] TOMIYAMA, HIROSHI, JP
- [72] IWAI, YOSHINORI, JP
- [72] NAKAMURA, AKIHIKO, JP
- [71] ASTELLAS PHARMA INC., JP
- [71] KOTOBUKI PHARMACEUTICAL CO., LTD., JP
- [85] 2023-10-27
- [86] 2022-04-27 (PCT/JP2022/018994)
- [87] (WO2022/230912)
- [30] JP (2021-075905) 2021-04-28

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- [51] Int.Cl. A61P 27/16 (2006.01)
- [25] EN
- [54] GENE THERAPY CONSTRUCTS AND METHODS FOR TREATMENT OF HEARING LOSS
- [54] CONSTRUCTIONS DE THERAPIE GENIQUE ET PROCEDES DE TRAITEMENT DE LA PERTE AUDITIVE
- [72] STAECKER, HINRICH, US
- [71] RESCUE HEARING INC., US
- [85] 2023-11-07
- [86] 2022-05-14 (PCT/US2022/029334)
- [87] (WO2022/241302)
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[54] BI-SPECIFIC CHIMERIC ANTIGEN RECEPTORS AND GENETICALLY ENGINEERED IMMUNE CELLS EXPRESSING SUCH  
[54] RECEPTEURS ANTIGENIQUES CHIMERIQUES BISPECIFIQUES ET CELLULES IMMUNITAIRES GENETIQUEMENT MODIFIEES EXPRIMANT CES RECEPTEURS  
[72] HU, BILIANG, US  
[71] CELLEDIT LLC, US  
[85] 2023-11-07  
[86] 2022-05-18 (PCT/US2022/029915)  
[87] (WO2022/246004)  
[30] US (63/190,480) 2021-05-19

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[25] EN  
[54] SUTURE APPARATUS, SYSTEM, AND METHOD  
[54] APPAREIL, SYSTEME ET PROCEDE DE SUTURE  
[72] WAHL, JOSEPH, US  
[72] DEMEDICI, DARREN, US  
[71] A&E ADVANCED CLOSURE SYSTEMS, LLC, US  
[85] 2023-10-27  
[86] 2022-05-06 (PCT/US2022/028149)  
[87] (WO2022/240692)  
[30] US (63/188,755) 2021-05-14

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[51] Int.Cl. A01K 91/06 (2006.01) A01K 97/00 (2006.01)  
[25] EN  
[54] REPLACEABLE FLOATING ATTRACTANT ACCESSORIES FOR FISHING LINE  
[54] APPATS FLOTTANTS REMPLACABLES POUR LIGNE DE PECHE  
[72] MCCURDY, RUSSELL LEWIS, US  
[71] MCCURDY, RUSSELL LEWIS, US  
[85] 2023-10-26  
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[51] Int.Cl. C12Q 1/70 (2006.01)  
[25] EN  
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[54] COMPOSITIONS ET PROCEDES DE DETECTION D'ACIDE NUCLEIQUE D'ADENOVIRUS HUMAIN  
[72] MOBERLY, JOSHUA KALANI, US  
[71] GEN-PROBE INCORPORATED, US  
[85] 2023-10-26  
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[25] EN  
[54] RESCORCINOLS, METHODS FOR THEIR MANUFACTURE, AND USES THEREOF  
[54] RESORCINOLS, LEURS PROCEDES DE FABRICATION ET LEURS UTILISATIONS  
[72] SILCOCK, ALAN JAMES, GB  
[72] TSE, KAREN KA-YEN, GB  
[72] HINCHLIFFE, PAUL STUART, GB  
[72] SHARPE, ANDREW, GB  
[72] SIMPSON, IAIN DAVID, GB  
[72] PEACH, JOANNE, GB  
[72] LEVANTO, STEFANO, GB  
[72] MILLET, ANTOINE, GB  
[72] MANN, INDERJIT SINGH, GB  
[71] GW RESEARCH LIMITED, GB  
[85] 2023-11-07  
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[51] Int.Cl. E01F 13/02 (2006.01) E04H 17/18 (2006.01)  
[25] EN  
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[54] BARRIERE DE CONTROLE DE FOULE  
[72] BURNET, RICHARD JOHN STACEY, GB  
[72] PARSONS, PAUL DAVID MICHAEL, GB  
[72] CATRINA, MIHAIL, GB  
[71] ABURNET LIMITED, GB  
[85] 2023-11-07  
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[25] EN  
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[54] SYSTEME ET PROCEDE DE SELECTION D'UNE LENTILLE INTRAOCULAIRE PREFEREE  
[72] CAMPIN, JOHN ALFRED, US  
[72] GRUENDIG, MARTIN, DE  
[72] HERNANDEZ, VICTOR MANUEL, US  
[72] PETTIT, GEORGE HUNTER, US  
[72] ZIELKE, MARK ANDREW, US  
[72] NEKRASSOV, DANIIL, DE  
[71] ALCON INC., CH  
[85] 2023-11-07  
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  - [25] EN
  - [54] AUTOREGULATION SYSTEM AND METHOD USING TISSUE OXIMETRY AND BLOOD PRESSURE
  - [54] SYSTEME ET PROCEDE D'AUTOREGULATION AU MOYEN DE L'OXYMETRIE TISSULAIRE ET DE LA TENSION ARTERIELLE
  - [72] ALATHUR RANGARAJAN, ANUSHA, US
  - [72] BENNI, PAUL B., US
  - [72] JIAN, ZHONGPING, US
  - [72] ALBANESE, ANTONIO, US
  - [72] AGUIRRE, ANDRES S., US
  - [72] SCHNEIDER, BRENNAN MICHAEL, US
  - [71] EDWARDS LIFESCIENCES CORPORATION, US
  - [85] 2023-10-27
  - [86] 2022-05-02 (PCT/US2022/027282)
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- [25] EN
- [54] WEDGE TORQUE ASSEMBLY
- [54] ENSEMBLE DE COUPLE DE COIN
- [72] NIKAM, PANKAJ, IN
- [72] BHALKAR, RANJIT NARAYAN, IN
- [72] PANASKAR, RATNADEEP, IN
- [72] PATIL, AMITKUMAR, IN
- [72] KAY, SAMSON, US
- [72] DHARWADKAR, KAUSTUBH, US
- [71] CRANE CHEMPHARMA & ENERGY CORP., US
- [85] 2023-10-27
- [86] 2022-04-28 (PCT/US2022/071985)
- [87] (WO2022/232818)
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  - [25] EN
  - [54] USES AND METHODS FOR RECURRENT PRIMARY CNS NEOPLASMS
  - [54] UTILISATIONS ET METHODES POUR DES NEOPLASMES DU SNC PRIMAIRES RECURRENTS
  - [72] ALLEN, JOSHUA EDWARD, US
  - [72] CHAPPELL, JILL CHRISTINE, US
  - [72] LEE, ANDREW KANG-KANG, US
  - [72] NADERER, ODIN JOHANN, US
  - [72] PRABHU, VARUN VIJAY, US
  - [72] SETHNA, PHIROZE BEHRAM, US
  - [71] CHIMERIX, INC., US
  - [85] 2023-11-07
  - [86] 2022-05-13 (PCT/US2022/072304)
  - [87] (WO2022/241467)
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- [25] EN
- [54] VIRUS-SPECIFIC IMMUNE CELLS EXPRESSING CHIMERIC ANTIGEN RECEPTORS
- [54] CELLULES IMMUNITAIRES SPECIFIQUES A UN VIRUS EXPRIMANT DES RECEPTEURS ANTIGENIQUES CHIMERIQUES
- [72] QUACH, DAVID H., US
- [72] ROONEY, CLIONA M., US
- [72] RAMOS, CARLOS A., US
- [71] BAYLOR COLLEGE OF MEDICINE, US
- [85] 2023-10-27
- [86] 2022-04-27 (PCT/US2022/071950)
- [87] (WO2022/232797)
- [30] US (63/201,384) 2021-04-27

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  - [25] EN
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  - [54] DERIVES DE QUINAZOLINE UTILES EN TANT QU'INHIBITEURS DE RAS
  - [72] JONES, CLIFFORD D., GB
  - [72] BHAMRA, INDER, GB
  - [72] RYAN, JAMES, GB
  - [71] REDX PHARMA PLC., GB
  - [85] 2023-11-07
  - [86] 2022-06-09 (PCT/GB2022/051446)
  - [87] (WO2022/258974)
  - [30] GB (2108334.0) 2021-06-10
  - [30] GB (2118633.3) 2021-12-21
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- [25] EN
- [54] ENDOSCOPIC DEVICE FOR TREATMENT OF INFECTIONS
- [54] DISPOSITIF ENDOSCOPIQUE POUR LE TRAITEMENT D'INFECTIONS
- [72] ROSEN, JENNIFER K., US
- [72] FEENEY, BENJAMIN X., US
- [72] DEGRAZIA, GREGORY D., US
- [71] FREESTYLE PARTNERS, LLC, US
- [85] 2023-10-27
- [86] 2022-07-08 (PCT/US2022/036508)
- [87] (WO2022/266554)
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[25] EN  
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[54] DISPOSITIFS D'IMPLANT DE CAPTEUR A DOUBLE ANCRAge  
[72] VALDEZ, MICHAEL G., US  
[72] TRAN, THU THI ANH, US  
[71] EDWARDS LIFESCIENCES CORPORATION, US  
[85] 2023-10-27  
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[87] (WO2022/240603)  
[30] US (63/189,055) 2021-05-14

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[54] ENSEMBLE CANULE A VALVE  
[72] CHON, JAMES Y., US  
[72] CICCHELLA, JOEL, US  
[72] HENG, ROBERT JEFFREY, US  
[72] LIAO, GRACE CHUANG, US  
[72] SINHA, ASHISH, US  
[71] ALCON INC., CH  
[85] 2023-11-07  
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[87] (WO2023/002286)  
[30] US (63/223,672) 2021-07-20

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[51] Int.Cl. A61F 5/44 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)  
[25] EN  
[54] CANCER THERAPY USING CHECKPOINT INHIBITORS  
[54] THERAPIE ANTICANCEREUSE UTILISANT DES INHIBITEURS DE POINT DE CONTROLE  
[72] KATZ, STEVEN C., US  
[72] COX, BRYAN F., US  
[71] TRISALUS LIFE SCIENCES, INC., US  
[85] 2023-10-27  
[86] 2022-04-29 (PCT/US2022/027093)  
[87] (WO2022/232617)  
[30] US (63/181,798) 2021-04-29

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[51] Int.Cl. G05G 9/04 (2006.01)  
[25] EN  
[54] DEVICE FOR CONTROLLING A CURSOR OF A GRAPHICAL USER INTERFACE OF A FLIGHT UNIT  
[54] DISPOSITIF DE COMMANDE D'UN CURSEUR D'UNE INTERFACE UTILISATEUR GRAPHIQUE D'UNE UNITE DE VOL  
[72] RICCI, FRANCESCO, IT  
[72] BARILE, GIOVANNI, IT  
[72] FABBRINI, MASSIMO, IT  
[71] LEONARDO S.P.A., IT  
[85] 2023-11-07  
[86] 2022-05-10 (PCT/IB2022/054307)  
[87] (WO2022/238877)  
[30] EP (21425022.7) 2021-05-10  
[30] IT (102022000006404) 2022-03-31

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[25] EN  
[54] CANNULAS FOR OPHTHALMIC PROCEDURES  
[54] CANULES POUR PROCEDURES OPHTALMIQUES  
[72] SINHA, ASHISH, US  
[72] HENG, ROBERT JEFFREY, US  
[71] ALCON INC., CH  
[85] 2023-11-07  
[86] 2022-06-08 (PCT/IB2022/055343)  
[87] (WO2023/002265)  
[30] US (63/223,645) 2021-07-20

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[54] ASSEMBLAGE DE GENES BASE SUR ADDAMER A PARTIR DE POOLS D'OLIGONUCLEOTIDES  
[72] STEMPLE, DEREK L., US  
[72] HARVEY, STEVEN, GB  
[72] BELL, NEIL, GB  
[72] ALLEN, JAMES, GB  
[72] STARR, ELLECIA, GB  
[72] FATHALLAH, NADIN, GB  
[71] CAMENA BIOSCIENCE LIMITED, GB  
[85] 2023-11-07  
[86] 2022-05-11 (PCT/US2022/028775)  
[87] (WO2022/240991)  
[30] US (63/186,871) 2021-05-11

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[25] EN  
[54] STABLE ISOQUINOLINE-CORTICOSTEROID CONJUGATES AND USES THEREOF  
[54] CONJUGUES D'ISOQUINOLEINE-CORTICOSTEROIDES STABLES ET LEURS UTILISATIONS  
[72] DELONG, MITCHELL A., US  
[72] STURDIVANT, JILL M., US  
[72] LICHOROWIC, CYNTHIA L., US  
[71] AERIE PHARMACEUTICALS, INC., US  
[85] 2023-10-27  
[86] 2022-04-29 (PCT/US2022/027072)  
[87] (WO2022/232602)  
[30] US (63/181,862) 2021-04-29

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[25] EN  
[54] DIRECTION DETECTION USING A WHEEL SPEED SENSOR AND EXCITER RING  
[54] DETECTION DE DIRECTION A L'AIDE D'UN CAPTEUR DE VITESSE DE ROUE ET D'UN ANNEAU D'EXCITATION  
[72] ZHOU, NIANQING, US  
[72] LIU, SHU YAN, US  
[72] ZULA, DANIEL P., US  
[72] HAYES, THOMAS J., US  
[71] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US  
[85] 2023-10-26  
[86] 2022-06-13 (PCT/US2022/033171)  
[87] (WO2022/265951)  
[30] US (17/349,334) 2021-06-16

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**[21] 3,218,251**  
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- [51] Int.Cl. A61K 31/422 (2006.01) A61K 9/16 (2006.01) C07D 413/10 (2006.01) C07D 413/12 (2006.01) A61P 27/02 (2006.01)
  - [25] EN
  - [54] PHARMACEUTICAL COMPOSITIONS AND INTRAVITREAL DRUG DELIVERY SYSTEMS FOR THE TREATMENT OF OCULAR DISEASES
  - [54] COMPOSITIONS PHARMACEUTIQUES ET SYSTEMES D'ADMINISTRATION INTRAVITREENNE DE MEDICAMENT POUR LE TRAITEMENT DE MALADIES OCULAIRES
  - [72] LIN, CHENG-WEN, US
  - [72] GLENDENNING, ANGELA DAWN, US
  - [72] GURKAN, SEVGI, US
  - [71] PERFUSE THERAPEUTICS, INC., US
  - [85] 2023-10-27
  - [86] 2022-04-29 (PCT/US2022/027048)
  - [87] (WO2022/232588)
  - [30] US (63/182,559) 2021-04-30
  - [30] US (63/287,737) 2021-12-09
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- [51] Int.Cl. A41D 13/11 (2006.01) A62B 18/02 (2006.01) A62B 18/08 (2006.01)
- [25] EN
- [54] HIGH-FILTRATION REUSABLE FACE MASK
- [54] MASQUE FACIAL REUTILISABLE A HAUTE FILTRATION
- [72] TROUTNER, JASON, US
- [72] RAHATE, NIMEESH, US
- [71] TEAL BIO, INC., US
- [85] 2023-10-26
- [86] 2022-04-26 (PCT/US2022/071919)
- [87] (WO2022/232778)
- [30] US (63/180,626) 2021-04-27

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- [51] Int.Cl. A61K 47/64 (2017.01) A61P 35/00 (2006.01)
  - [25] EN
  - [54] DOSING REGIMENS OF PEPTIDE CONJUGATES OF TOPOISOMERASE I INHIBITORS
  - [54] SCHEMAS POSOLOGIQUES DE CONJUGUES PEPTIDIQUES D'INHIBITEURS DE LA TOPOISOMERASE I
  - [72] PARALKAR, VISHWAS, US
  - [72] DECILLIS, ARTHUR P., US
  - [71] CYBREXA 2, INC., US
  - [85] 2023-10-26
  - [86] 2022-04-28 (PCT/US2022/071967)
  - [87] (WO2022/232808)
  - [30] US (63/181,640) 2021-04-29
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- [51] Int.Cl. H01M 50/591 (2021.01) H01M 50/105 (2021.01) H01M 50/178 (2021.01) H01M 50/249 (2021.01) H01M 50/531 (2021.01) H01M 50/579 (2021.01) H01M 50/586 (2021.01) H01M 50/59 (2021.01)
- [25] EN
- [54] BATTERY CELL, AND BATTERY MODULE, BATTERY PACK AND VEHICLE INCLUDING THE SAME
- [54] CELLULE DE BATTERIE, MODULE DE BATTERIE, BLOC-BATTERIE ET VEHICULE LES COMPRENANT
- [72] YOON, KYOUNG-SOON, KR
- [72] KO, MYUNG-HOON, KR
- [72] KIM, DONG-MYUNG, KR
- [72] KIM, SEOK-JE, KR
- [72] LEE, SEUNG-BYUNG, KR
- [72] LEE, YONG-TAE, KR
- [72] LEE, HYUN-SANG, KR
- [71] LG ENERGY SOLUTION, LTD., KR
- [85] 2023-11-07
- [86] 2022-08-31 (PCT/KR2022/013065)
- [87] (WO2023/033553)
- [30] KR (10-2021-0116623) 2021-09-01
- [30] KR (10-2022-0072423) 2022-06-14

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- [51] Int.Cl. B63B 21/50 (2006.01) B63B 77/10 (2020.01) B63B 1/10 (2006.01) B63B 21/08 (2006.01) B63B 21/18 (2006.01)
  - [25] EN
  - [54] BUOYANT OFFSHORE PLATFORM AND A METHOD OF DEPLOYING BUOYANT OFFSHORE PLATFORMS
  - [54] PLATE-FORME OFFSHORE FLOTTANTE ET PROCEDE DE DEPLOIEMENT DE PLATES-FORMES OFFSHORE FLOTTANTES
  - [72] FOSTER, GRAHAM, GB
  - [71] MARINE POWER SYSTEMS LIMITED, GB
  - [85] 2023-11-07
  - [86] 2022-05-06 (PCT/EP2022/062362)
  - [87] (WO2022/234127)
  - [30] GB (2106575.0) 2021-05-07
  - [30] GB (2203820.2) 2022-03-18
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- [51] Int.Cl. C07D 401/14 (2006.01) A61K 31/4427 (2006.01) A61K 31/4433 (2006.01) A61K 31/444 (2006.01) A61P 11/00 (2006.01) C07D 407/14 (2006.01)
- [25] EN
- [54] NOVEL TRIAZOLE-PYRIDINE SUBSTITUTED PYRROLIDINYL AND TETRAHYDRO-2H-PYRANYL ACETIC ACID COMPOUNDS AS LPA ANTAGONISTS
- [54] NOUVEAUX COMPOSES D'ACIDE PYRROLIDINYL ET TETRAHYDRO-2H-PYRANYL ACETIQUE A SUBSTITUTION PAR TRIAZOLE-PYRIDINE UTILISES EN TANT QU'ANTAGONISTES DE LPA
- [72] ZHANG, HONGJIAN, US
- [72] CHEN, PING, CN
- [72] CAI, ZHENWEI, CN
- [72] JIANG, FEI, CN
- [72] SUN, PEIHUA, CN
- [71] VIVA STAR BIOSCIENCES (SUZHOU) CO., LTD., CN
- [85] 2023-10-27
- [86] 2022-04-28 (PCT/US2022/026832)
- [87] (WO2022/232459)
- [30] CN (PCT/CN2021/091510) 2021-04-30

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[13] A1

[51] Int.Cl. A61P 25/16 (2006.01) C07D  
487/04 (2006.01)  
[25] EN  
[54] SMALL MOLECULE  
MODULATORS OF  
GLUCOCEREBROSIDASE  
ACTIVITY AND USES THEREOF  
[54] MODULATEURS A PETITES  
MOLECULES DE L'ACTIVITE  
GLUCOCEREBROSIDASE ET  
LEURS UTILISATIONS  
[72] HUNT, KEVIN, US  
[72] ZHENG, JIANBIN, US  
[72] SHEN, SIDA, US  
[71] VANQUA BIO, INC., US  
[85] 2023-10-27  
[86] 2022-04-28 (PCT/US2022/026715)  
[87] (WO2022/232383)  
[30] US (63/182,728) 2021-04-30

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[13] A1

[51] Int.Cl. B60N 2/28 (2006.01)  
[25] EN  
[54] CHILD CAR SEAT  
[54] SIEGE DE SECURITE POUR  
ENFANT  
[72] LEHMAN, DAVID A., US  
[72] MASON, KYLE S., US  
[72] TAYLOR, ANDREW J., US  
[72] HARTENSTINE, CURTIS M., US  
[72] HORST, ANDREW J., US  
[71] WONDERLAND SWITZERLAND  
AG, CH  
[85] 2023-10-27  
[86] 2022-04-28 (PCT/US2022/026710)  
[87] (WO2022/232379)  
[30] US (63/181,577) 2021-04-29  
[30] US (63/221,971) 2021-07-15  
[30] US (63/255,895) 2021-10-14

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[13] A1

[51] Int.Cl. G06Q 10/10 (2023.01) G06Q  
40/08 (2012.01) G06Q 50/22 (2018.01)  
G01P 3/56 (2006.01)  
[25] EN  
[54] DETERMINING VISUAL FRAILTY  
INDEX USING MACHINE  
LEARNING MODELS  
[54] DETERMINATION D'INDICE DE  
FRAGILITE VISUELLE SELON  
DES MODELES  
D'APPRENTISSAGE  
AUTOMATIQUE  
[72] KUMAR, VIVEK, US  
[72] HESSION, LEINANI, US  
[72] SABNIS, GAUTAM, US  
[72] CHURCHILL, GARY, US  
[71] THE JACKSON LABORATORY, US  
[85] 2023-11-07  
[86] 2022-05-12 (PCT/US2022/028986)  
[87] (WO2022/241112)  
[30] US (63/187,892) 2021-05-12

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[13] A1

[51] Int.Cl. B60B 33/06 (2006.01)  
[25] EN  
[54] RETRACTABLE GUARD  
ASSEMBLIES FOR A CASTER  
[54] ENSEMBLES DE PROTECTION  
RETRACTABLES POUR UNE  
ROULETTE  
[72] SPOELSTRA, BRANDON, US  
[71] ALCON INC., CH  
[85] 2023-11-07  
[86] 2022-06-06 (PCT/IB2022/055269)  
[87] (WO2023/275641)  
[30] US (63/217,390) 2021-07-01

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[13] A1

[51] Int.Cl. C07F 9/6561 (2006.01)  
[25] EN  
[54] METHOD FOR PRODUCING  
OLIGONUCLEIC ACID  
COMPOUND  
[54] PROCEDE DE PRODUCTION D'UN  
COMPOSE D'ACIDE  
OLIGONUCLEIQUE  
[72] KATO, KOKI, JP  
[72] NOGATA, MASAKI, JP  
[72] TODA, SHUNSUKE, JP  
[71] NIPPON SHINYAKU CO., LTD., JP  
[85] 2023-10-27  
[86] 2022-04-27 (PCT/JP2022/019139)  
[87] (WO2022/230954)  
[30] JP (2021-076609) 2021-04-28

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[51] Int.Cl. H01M 4/38 (2006.01) H01M  
10/052 (2010.01) H01M 4/02 (2006.01)  
H01M 4/52 (2010.01) H01M 4/58  
(2010.01) H01M 4/62 (2006.01)  
[25] EN  
[54] POSITIVE ELECTRODE SLURRY  
COMPOSITION, POSITIVE  
ELECTRODE MANUFACTURED  
USING SAME, AND LITHIUM  
SECONDARY BATTERY  
[54] COMPOSITION DE BOUILLE  
D'ELECTRODE POSITIVE,  
ELECTRODE POSITIVE  
FABRIQUEE A L'AIDE DE CELLE-  
CI, ET BATTERIE SECONDAIRE  
AU LITHIUM  
[72] KWON, O JONG, KR  
[72] CHOI, JUNG HUN, KR  
[72] KIM, JU RYOUN, KR  
[72] JANG, MIN CHUL, KR  
[72] KIM, KI WOONG, KR  
[72] AN, IN GU, KR  
[72] KANG, YONG HEE, KR  
[72] KIM, JI EUN, KR  
[72] JO, JEONG GEUN, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2023-10-27  
[86] 2022-12-20 (PCT/KR2022/020839)  
[87] (WO2023/121224)  
[30] KR (10-2021-0187190) 2021-12-24  
[30] KR (10-2022-0178086) 2022-12-19

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[13] A1

[51] Int.Cl. C08G 73/02 (2006.01)  
[25] EN  
[54] BIO-SOURCED CATIONIC HIGH  
CHARGE DENSITY POLYMER  
[54] POLYMERIE CATIONIQUE  
BIOSOURCE A HAUTE DENSITE  
DE CHARGE  
[72] FAVERO, CEDRICK, FR  
[72] KIEFFER, JOHANN, FR  
[71] SNF GROUP, FR  
[85] 2023-11-07  
[86] 2022-07-08 (PCT/EP2022/069132)  
[87] (WO2023/281076)  
[30] FR (2107502) 2021-07-09

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- [25] EN
- [54] METHOD FOR OBTAINING BIO-SOURCED SUBSTITUTED ALKYL(METH)ACRYLAMIDE
- [54] PROCEDE D'OBTENTION D'ALKYL(METH)ACRYLAMIDE SUBSTITUE BIOSOURCE
- [72] FAVERO, CEDRICK, FR
- [72] KIEFFER, JOHANN, FR
- [71] SNF GROUP, FR
- [85] 2023-11-07
- [86] 2022-07-08 (PCT/EP2022/069145)
- [87] (WO2023/281081)
- [30] FR (FR2107500) 2021-07-09

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[13] A1

- [51] Int.Cl. G06N 3/08 (2023.01)
- [25] EN
- [54] FORMULA AND RECIPE GENERATION WITH FEEDBACK LOOP
- [54] FORMULE ET GENERATION DE RECETTE AVEC BOUCLE DE RETROACTION
- [72] KAWAS GARCIA, NEBIL, CL
- [72] BALBONTIN PUIG, FRANCISCA, CL
- [72] HYLAND, KARINA, CL
- [72] ABARCA, CRISTOBAL, CL
- [72] CLAVERO, FRANCISCO, CL
- [72] HERRERA, EUGENIO, CL
- [72] LEAL, DANIEL, CL
- [72] MARTINEZ, ARIEL, CL
- [72] OLEA, PABLO, CL
- [72] QUIROZ, NICOLAS, CL
- [72] RICCI, JOAQUIN, CL
- [71] NOTCO DELAWARE, LLC, CL
- [85] 2023-11-07
- [86] 2021-10-20 (PCT/US2021/055751)
- [87] (WO2022/240439)
- [30] US (17/317,780) 2021-05-11

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- [51] Int.Cl. C12P 19/30 (2006.01) C12Q 1/6869 (2018.01) C07H 19/06 (2006.01) C07H 19/10 (2006.01) C07H 19/16 (2006.01) C07H 19/20 (2006.01) C07H 21/04 (2006.01) C12P 19/34 (2006.01)
- [25] EN
- [54] PURIFYING AND POLYMERIZING 3'-BLOCKED NUCLEOTIDES
- [54] PURIFICATION ET POLYMERISATION DE NUCLEOTIDES BLOQUES EN 3'
- [72] SCHNEIDER, KIM, GB
- [72] BETLEY, JASON, GB
- [72] MILLER, OLIVER, GB
- [72] DREWS, BRADLEY, US
- [72] SMITH, DOMINIC, GB
- [72] PANCHAPAKESAN, RAJAGOPAL, US
- [72] MCCUALEY, PATRICK, GB
- [72] MASON, STEPHEN, GB
- [72] MOSCHETTI, TOMMASO, GB
- [72] CHESNEY, MICHAEL, US
- [72] RICHARDSON, MARTA, GB
- [72] LAWRENCE, ELLIOT, GB
- [72] JACKSON, AMANDA, GB
- [72] JACKSON, ROSAMOND, GB
- [72] IMSAND, ERIN, US
- [72] DAY, HENRY, GB
- [71] ILLUMINA, INC., US
- [71] ILLUMINA CAMBRIDGE LIMITED, GB
- [85] 2023-11-07
- [86] 2022-05-19 (PCT/US2022/030008)
- [87] (WO2022/251032)
- [30] US (63/193,413) 2021-05-26

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- [51] Int.Cl. H04B 7/0456 (2017.01) H04B 7/0413 (2017.01) H04B 7/06 (2006.01)
- [25] EN
- [54] PRECODING INFORMATION
- [54] INFORMATIONS DE PRECODAGE
- [72] TOSATO, FILIPPO, FR
- [72] AHMED, RANA, DE
- [71] NOKIA TECHNOLOGIES OY, FI
- [85] 2023-11-07
- [86] 2022-04-28 (PCT/FI2022/050277)
- [87] (WO2022/238612)
- [30] US (63/187,347) 2021-05-11
- [30] US (63/230,349) 2021-08-06

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[13] A1

- [51] Int.Cl. G16H 50/20 (2018.01) G16H 50/30 (2018.01) G16H 50/70 (2018.01)
- [25] EN
- [54] SYSTEMS, DEVICES, AND METHODS FOR EVENT-BASED KNOWLEDGE REASONING SYSTEMS USING ACTIVE AND PASSIVE SENSORS FOR PATIENT MONITORING AND FEEDBACK
- [54] SYSTEMES, DISPOSITIFS ET PROCEDES POUR DES SYSTEMES DE RAISONNEMENT A CONNAISSANCES BASEES SUR DES EVENEMENTS UTILISANT DES CAPTEURS ACTIFS ET PASSIFS POUR LA SURVEILLANCE ET LA RETROACTION DE PATIENT
- [72] KEENE, DAVID, US
- [72] NEUHAUS, EDMUND, US
- [71] ATAI LIFE SCIENCES AG, DE
- [85] 2023-11-07
- [86] 2022-05-09 (PCT/US2022/028322)
- [87] (WO2022/236167)
- [30] US (63/185,604) 2021-05-07
- [30] US (63/214,553) 2021-06-24

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[13] A1

- [51] Int.Cl. A61M 39/10 (2006.01)
- [25] EN
- [54] CATHETER ASSEMBLY AND RELATED DEVICES AND METHODS
- [54] ENSEMBLE CATHETER AINSI QUE DISPOSITIFS ET METHODES ASSOCIES
- [72] LACKEY, JOHN, US
- [72] SCHERICH, MEGAN, US
- [72] BURKHOLZ, JONATHAN KARL, US
- [72] HARDING, WESTON F., US
- [72] SONDEREGGER, RALPH L., US
- [72] BLANCHARD, CURTIS H., US
- [72] HENDRICK, HADLEY, US
- [71] BECTON, DICKINSON AND COMPANY, US
- [85] 2023-11-07
- [86] 2022-05-13 (PCT/US2022/029149)
- [87] (WO2022/241193)
- [30] US (63/188,821) 2021-05-14

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[13] A1

- [51] Int.Cl. A23L 7/10 (2016.01) A23L 19/10 (2016.01) A23L 19/12 (2016.01) A23L 29/212 (2016.01) A23L 29/269 (2016.01)
- [25] EN
- [54] GLUTEN-FREE FLEXIBLE VEGETABLE HASH-BASED FOOD PRODUCT
- [54] PRODUIT ALIMENTAIRE SOUPLE A BASE DE LEGUMES HACHES SANS GLUTEN
- [72] BERMUDEZ-AGUIRRE, LUZ DANIELA, US
- [71] LAMB WESTON, INC., US
- [85] 2023-11-07
- [86] 2022-05-13 (PCT/US2022/029237)
- [87] (WO2022/245662)
- [30] US (63/189,365) 2021-05-17

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[13] A1

- [51] Int.Cl. C11D 3/04 (2006.01) C11D 3/20 (2006.01) C11D 11/00 (2006.01)
- [25] EN
- [54] FABRIC TREATMENT
- [54] TRAITEMENT DE TISSU
- [72] BINNEY, NICOLA JANE, GB
- [72] BROOKER, ALAN THOMAS, GB
- [72] HEATHCOTE, LINDSEY, GB
- [72] MOON, LIBBI, GB
- [72] PEREZ-PRAT VINUESA, EVA MARIA, BR
- [72] ROEDER, RACHEL MORGAN CLAYTON, US
- [71] THE PROCTER & GAMBLE COMPANY, US
- [85] 2023-11-07
- [86] 2022-06-27 (PCT/US2022/073179)
- [87] (WO2023/278970)
- [30] EP (21182763.9) 2021-06-30

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- [25] EN
- [54] QUICK RELEASE RAIL MOUNTING ASSEMBLY
- [54] ENSEMBLE DE MONTAGE DE RAIL A LIBERATION RAPIDE
- [72] CONNOLLY, JOHN, CA
- [71] RATHEON CANADA LIMITED, CA
- [85] 2023-11-07
- [86] 2022-05-05 (PCT/US2022/027876)
- [87] (WO2022/235936)
- [30] US (63/185,468) 2021-05-07

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[13] A1

- [51] Int.Cl. E21B 19/00 (2006.01) E21B 41/00 (2006.01)
- [25] EN
- [54] AUTOMATIC SMALL RCCAIR OPERATION SYSTEM FOR OIL FIELD
- [54] SYSTEME D'OPERATION DE PETITE REPARATION AUTOMATIQUE POUR CHAMP PETROLIFERE
- [72] ZHANG, XIQING, CN
- [72] ZHANG, DUANGUANG, CN
- [72] SHEN, JUNFANG, CN
- [72] WANG, QIULING, CN
- [72] LV, HAILONG, CN
- [72] ZHANG, JIAOJIAO, CN
- [72] ZHANG, XIAONAN, CN
- [72] JIA, YANLI, CN
- [72] HAN, WENPING, CN
- [71] SHENGLI OILFIELD SHENGJI PETROLEUM EQUIPMENT CO., LTD., CN
- [85] 2023-11-07
- [86] 2021-12-09 (PCT/CN2021/136799)
- [87] (WO2022/121984)
- [30] CN (202011463305.8) 2020-12-09
- [30] CN (202120053182.4) 2021-01-11
- [30] CN (202120001464.X) 2021-01-04
- [30] CN (202121973995.1) 2021-08-23
- [30] CN (202120008013.9) 2021-01-05

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- [25] EN
- [54] COMPACT LOCKING RAIL MOUNT AND MOUNTING ASSEMBLY
- [54] MONTAGE SUR RAIL DE VERROUILLAGE COMPACT ET ENSEMBLE DE MONTAGE
- [72] CONNOLLY, JOHN MAXWELL, CA
- [71] RAYTHEON CANADA LIMITED, CA
- [85] 2023-11-07
- [86] 2022-05-02 (PCT/US2022/072055)
- [87] (WO2022/236252)
- [30] US (63/185,468) 2021-05-07

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- [51] Int.Cl. A61B 5/00 (2006.01) A61B 5/0205 (2006.01) A61B 5/024 (2006.01) A61B 5/08 (2006.01) A61B 5/11 (2006.01) A61B 5/1455 (2006.01)
- [25] EN
- [54] DEVICE FOR ASCERTAINING THE PHYSIOLOGICAL STATE OF BABIES AND SMALL CHILDREN
- [54] APPAREIL SERVANT A DETERMINER UN ETAT PHYSIOLOGIQUE DE BEBES ET D'ENFANTS EN BAS AGE
- [72] WUNDERLICH, NADINE, DE
- [72] WUNDERLICH, BJORN, DE
- [71] LEEVI HEALTH GMBH, DE
- [85] 2023-11-07
- [86] 2022-05-27 (PCT/EP2022/064386)
- [87] (WO2022/248655)
- [30] EP (21176722.3) 2021-05-28

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- [51] Int.Cl. C07K 7/08 (2006.01) C07H 15/26 (2006.01) C07K 7/06 (2006.01)
- [25] EN
- [54] CELL-SURFACE ENGINEERING COMPOSITIONS AND METHODS FOR THE PREVENTION OF IMMUNE REJECTION
- [54] COMPOSITIONS DE MODIFICATION DE SURFACE CELLULAIRE ET PROCEDES POUR LA PREVENTION DU REJET IMMUNITAIRE
- [72] KIZHAKKEDATHU, JAYACHANDRAN, CA
- [72] SIREN, ERIKA, CA
- [72] CHOY, JONATHAN, CA
- [72] LUO, HAIMING, CA
- [72] WITHERS, STEPHEN, CA
- [72] DU, CAIGAN, CA
- [72] ENNS, WINNIE, CA
- [71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
- [71] SIMON FRASER UNIVERSITY, CA
- [85] 2023-11-07
- [86] 2022-06-22 (PCT/CA2022/051000)
- [87] (WO2022/266758)
- [30] US (63/213,322) 2021-06-22

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[51] Int.Cl. F28D 1/053 (2006.01)
[25] EN
[54] REFRIGERANT HEAT EXCHANGER WITH INTEGRAL MULTIPASS AND FLOW DISTRIBUTION TECHNOLOGY
[54] ECHANGEUR DE CHALEUR A FLUIDE FRIGORIGENE A TECHNOLOGIE UNIFIEE DE DISTRIBUTION DE FLUX ET DE PASSAGES MULTIPLES
[72] SORENSEN, COLE, US
[72] KERLIN, ANDREW, US
[71] AIRBORNE ECS, LLC, US
[85] 2023-11-07
[86] 2022-05-19 (PCT/US2022/029990)
[87] (WO2022/246038)
[30] US (63/190,843) 2021-05-20

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<b>[21] 3,218,291</b> [13] A1
[51] Int.Cl. A61K 35/768 (2015.01) A61P 31/04 (2006.01)
[25] EN
[54] STAPHYLOCOCCUS BACTERIOPHAGE AND USES THEREOF
[54] BACTERIOPHAGE DE STAPHYLOCOCCUS ET SES UTILISATIONS
[72] ZELCBUCH, LIOR MOSHE, IL
[72] BUCHSHTAB, NUFAR, IL
[72] ELHARAR, YIFAT, IL
[72] NICENBOIM, JULIAN, IL
[72] LIN, TAMAR, IL
[71] BIOMX LTD., IL
[85] 2023-11-07
[86] 2022-05-12 (PCT/IB2022/054416)
[87] (WO2022/238947)
[30] US (63/187,484) 2021-05-12
[30] US (63/216,002) 2021-06-29

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<b>[21] 3,218,292</b> [13] A1
[25] EN
[54] BLOOD COLLECTION CONTAINER, METHOD FOR SEPARATING PLASMA, METHOD FOR SEPARATING EXTRACELLULAR FREE NUCLEIC ACID, AND METHOD FOR SEPARATING EXTRACELLULAR VESICLE
[54] CONTENANT DE PRELEVEMENT SANGUIN, PROCEDE DE SEPARATION DE PLASMA, PROCEDE DE SEPARATION D'ACIDE NUCLEIQUE LIBRE EXTRACELLULAIRE ET PROCEDE DE SEPARATION DE VESICULE EXTRACELLULAIR
[72] KOMAI, KUNIYA, JP
[72] UCHIYAMA, TAKAYA, JP
[72] KANDA, MARIKA, JP
[72] INOUE, TOMONORI, JP
[71] SEKISUI MEDICAL CO., LTD., JP
[85] 2023-11-07
[86] 2022-05-27 (PCT/JP2022/021743)
[87] (WO2022/250142)
[30] JP (2021-090433) 2021-05-28

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<b>[21] 3,218,294</b> [13] A1
[51] Int.Cl. F22B 3/04 (2006.01) F22B 1/08 (2006.01)
[25] EN
[54] METHOD FOR PROVIDING PROCESS STEAM AND PROCESS ENGINEERING PLANT FOR THE USE OF PROCESS STEAM
[54] PROCEDE DE PREPARATION DE VAPEUR DE TRAITEMENT ET INSTALLATION TECHNOLOGIQUE DESTINEE A UTILISER DE LA VAPEUR DE TRAITEMENT
[72] BUDT, MARCUS, DE
[72] KLUTE, SVEN, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2023-11-07
[86] 2022-04-13 (PCT/EP2022/059937)
[87] (WO2022/233554)
[30] DE (10 2021 111 918.9) 2021-05-07

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<b>[21] 3,218,295</b> [13] A1
[51] Int.Cl. A61K 90/98 (2016.01) G08B 1/08 (2006.01)
[25] EN
[54] SYSTEMS AND METHODS FOR WIRELESS LOCALIZATION INTEGRATION
[54] SYSTEMES ET PROCEDES D'INTEGRATION DE LOCALISATION SANS FIL
[72] HILTNER, JASON, US
[72] FISHER, ADAM, US
[72] DEAN, BRYAN, US
[71] ELUCENT MEDICAL, INC., US
[85] 2023-11-07
[86] 2022-05-17 (PCT/US2022/029556)
[87] (WO2022/245771)
[30] US (63/189,394) 2021-05-17

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<b>[21] 3,218,297</b> [13] A1
[51] Int.Cl. A61K 45/06 (2006.01) A61P 7/06 (2006.01)
[25] EN
[54] USE OF PELABRESIB FOR TREATING ANEMIAS
[54] UTILISATION DE PELABRESIB POUR LE TRAITEMENT D'ANEMIES
[72] COLAK, GOZDE, US
[71] CONSTELLATION PHARMACEUTICALS, INC., US
[85] 2023-11-07
[86] 2022-05-10 (PCT/US2022/028457)
[87] (WO2022/240800)
[30] US (63/186,978) 2021-05-11

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<b>[21] 3,218,298</b> [13] A1
[51] Int.Cl. A61K 8/21 (2006.01) A61K 8/24 (2006.01) A61K 8/27 (2006.01) A61K 8/46 (2006.01)
[25] EN
[54] ORAL CARE COMPOSITIONS
[54] COMPOSITIONS DE SOINS BUCCODENTAIRES
[72] KOCINSKA, AGNIESZKA, CH
[72] EVANS, LAUREN, US
[72] POTH, TILO, DE
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2023-11-07
[86] 2022-05-24 (PCT/US2022/030738)
[87] (WO2022/251223)
[30] US (63/192,876) 2021-05-25
[30] US (63/221,703) 2021-07-14

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[51] Int.Cl. B05B 12/02 (2006.01)
[25] EN
<b>[54] BATTERY POWERED SELF-ADJUSTING SANITIZER/DISINFECTANT SPRAYER</b>
<b>[54] PULVERISATEUR PURIFIANT/DESINFECTANT A REGLAGE AUTOMATIQUE ALIMENTE PAR BATTERIE</b>
[72] MOORE, MARK W., US
[72] CIAVARELLA, NICK E., US
[72] KACIK, MARK S., US
[72] WEGELIN, JACKSON W., US
[72] MCNULTY, JOHN J., US
[71] GOJO INDUSTRIES, INC., US
[85] 2023-11-07
[86] 2022-05-02 (PCT/US2022/027258)
[87] (WO2022/240604)
[30] US (63/187,000) 2021-05-11

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<b>[21] 3,218,300</b> [13] A1
[51] Int.Cl. G06N 3/04 (2023.01) G06N 3/063 (2023.01)
[25] EN
<b>[54] SYSTEM, METHOD, AND COMPUTER DEVICE FOR TRANSISTOR-BASED NEURAL NETWORKS</b>
<b>[54] SYSTEME, PROCEDE ET DISPOSITIF INFORMATIQUE POUR RESEAUX NEURONAUX TRANSISTORISES</b>
[72] GOSSON, JOHN LINDEN, CA
[72] LEVINSON, ROGER, CA
[71] BLUMIND INC., CA
[85] 2023-11-07
[86] 2022-05-06 (PCT/CA2022/050717)
[87] (WO2022/232947)
[30] US (63/185,793) 2021-05-07

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<b>[21] 3,218,301</b> [13] A1
[51] Int.Cl. B62K 5/10 (2013.01)
[25] EN
<b>[54] ELECTRIC VEHICLE WITH SWING ARM FOR INDEPENDENTLY ARTICULATING WHEELS</b>
<b>[54] VEHICULE ELECTRIQUE AYANT UN BRAS OSCILLANT POUR DES ROUES A ARTICULATION INDEPENDANTE</b>
[72] ZADEH, ALLEN, US
[72] FOOTE, ROBERT T. III, US
[71] THE BARBARA B. BUZARD DESCENDANTS' TRUST, US
[85] 2023-11-07
[86] 2021-05-12 (PCT/US2021/031901)
[87] (WO2022/240399)

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<b>[21] 3,218,304</b> [13] A1
[51] Int.Cl. H04W 72/12 (2023.01)
[25] EN
<b>[54] BUFFER STATUS REPORT OVERHEAD ESTIMATION</b>
<b>[54] ESTIMATION DE SURDEBIT DE RAPPORT D'ETAT DE MEMOIRE TAMPON</b>
[72] TANO, RICHARD, SE
[72] KANG, DU HO, SE
[72] PRADAS, JOSE LUIS, SE
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2023-11-07
[86] 2022-05-10 (PCT/IB2022/054348)
[87] (WO2022/238906)
[30] US (63/186,287) 2021-05-10

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<b>[21] 3,218,302</b> [13] A1
[51] Int.Cl. E21B 19/24 (2006.01) E21B 19/14 (2006.01)
[25] EN
<b>[54] AUTOMATED APPARATUS FOR OIL FIELD DRILLING AND WORKOVER OPERATIONS</b>
<b>[54] APPAREIL AUTOMATISE POUR OPERATIONS DE FORAGE ET DE RECONDITIONNEMENT DE CHAMP PETROLIFERE</b>
[72] ZHANG, XIQING, CN
[72] ZHANG, DUANGUANG, CN
[72] SHEN, JUNFANG, CN
[72] YU, JIDI, CN
[72] WANG, QIULING, CN
[72] JI, YE, CN
[72] LI, YANG, CN
[72] CUI, XIAOYU, CN
[72] LI, ZHONGWEI, CN
[72] GUAN, CHUNLI, CN
[72] ZHANG, XIAONAN, CN
[71] SHENGLI OILFIELD SHENGJI PETROLEUM EQUIPMENT CO., LTD., CN
[85] 2023-11-07
[86] 2021-12-27 (PCT/CN2021/141749)
[87] (WO2022/143559)
[30] CN (202023246053.1) 2020-12-28
[30] CN (202110503197.0) 2021-05-10
[30] CN (202120001472.4) 2021-01-04
[30] CN (202120001448.0) 2021-01-04
[30] CN (202120001464.X) 2021-01-04

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<b>[21] 3,218,305</b> [13] A1
[51] Int.Cl. A01K 5/02 (2006.01) A01K 1/10 (2006.01)
[25] EN
<b>[54] METHOD AND CONTROL DEVICE FOR CONTROLLING A FEED ROBOT AT A FEED TABLE</b>
<b>[54] PROCEDE ET DISPOSITIF DE COMMANDE POUR COMMANDER UN ROBOT D'ALIMENTATION AU NIVEAU D'UNE TABLE D'ALIMENTATION</b>
[72] KLAAS, ILKA, SE
[71] DELAVAL HOLDING AB, SE
[85] 2023-11-07
[86] 2022-06-21 (PCT/SE2022/050613)
[87] (WO2022/271068)
[30] SE (2150813-0) 2021-06-23

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<b>[21] 3,218,306</b> [13] A1
[51] Int.Cl. C01B 32/18 (2017.01) H05H 1/30 (2006.01)
[25] EN
<b>[54] MICROWAVE ASSISTED FLUIDIZED BED REACTOR</b>
<b>[54] REACTEUR A LIT FLUIDISE ASSISTE PAR MICRO-ONDES</b>
[72] SKOPTSOV, GEORGE, US
[72] MANTRI, AAYUSH, US
[72] VISWANATHAN, VIGNESH, US
[72] JAIN, PREET, US
[71] H QUEST VANGUARD, INC., US
[85] 2023-11-07
[86] 2022-05-17 (PCT/US2022/072385)
[87] (WO2022/246409)
[30] US (63/189,548) 2021-05-17

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- [51] Int.Cl. A61B 5/1495 (2006.01) G16H 50/20 (2018.01) A61B 5/155 (2006.01)
  - [25] EN
  - [54] METHOD FOR CALIBRATING NON-INVASIVE BIOMETRIC INFORMATION
  - [54] METHODE D'ETALONNAGE D'INFORMATIONS BIOMETRIQUES NON INVASIVES
  - [72] KANG, YOUNG JEA, KR
  - [72] NAM, HAK HYUN, KR
  - [71] I-SENS, INC., KR
  - [85] 2023-11-07
  - [86] 2022-03-21 (PCT/KR2022/003887)
  - [87] (WO2022/244963)
  - [30] KR (10-2021-0065023) 2021-05-20
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[13] A1

- [51] Int.Cl. E21B 33/038 (2006.01) F16L 19/06 (2006.01) F16L 23/04 (2006.01) F16L 25/06 (2006.01)
  - [25] EN
  - [54] A CLAMP AND A METHOD OF CLAMPING A PAIR OF FLANGES
  - [54] PINCE ET PROCEDE DE SERRAGE D'UNE PAIRE DE BRIDES
  - [72] ASLAKSEN, HAKON, NO
  - [72] BOKN, OLE, NO
  - [72] OFTEDAL, VEGARD, NO
  - [72] SKJELLEVIK, HELGE, NO
  - [71] AQUAMARINE AS, NO
  - [85] 2023-11-07
  - [86] 2022-06-03 (PCT/NO2022/050123)
  - [87] (WO2022/265513)
  - [30] NO (20210790) 2021-06-17
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[13] A1

- [51] Int.Cl. H04L 41/12 (2022.01)
  - [25] EN
  - [54] METHOD FOR DETERMINING A CHAIN POSITION OF A NETWORK SUBSCRIBER
  - [54] PROCEDE POUR DETERMINER UNE POSITION DE CHAINE D'UN ABONNE DE RESEAU
  - [72] SCHOLTYSSEK, MARCO, DE
  - [71] GEA FARM TECHNOLOGIES GMBH, DE
  - [85] 2023-11-07
  - [86] 2022-06-09 (PCT/EP2022/065712)
  - [87] (WO2022/258761)
  - [30] DE (10 2021 115 176.7) 2021-06-11
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[13] A1

- [51] Int.Cl. C08J 11/10 (2006.01)
  - [25] EN
  - [54] PROCESS FOR DEGRADING A PLASTIC PRODUCT COMPRISING AT LEAST ONE POLYESTER
  - [54] PROCEDE DE DEGRADATION D'UN PRODUIT PLASTIQUE COMPRENANT AU MOINS UN POLYESTER
  - [72] BORSENBERGER, VINCIANE, FR
  - [72] TOURNIER, VINCENT, FR
  - [72] MARTY, ALAIN, FR
  - [71] CARBIOS, FR
  - [85] 2023-11-07
  - [86] 2022-05-20 (PCT/EP2022/063796)
  - [87] (WO2022/243545)
  - [30] EP (21174995.7) 2021-05-20
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[13] A1

- [51] Int.Cl. G06Q 50/04 (2012.01) G06F 21/30 (2013.01) G06F 21/60 (2013.01)
  - [25] EN
  - [54] SYSTEMS AND METHODS FOR VERIFYING ADDITIVE MANUFACTURING WORKFLOWS
  - [54] SYSTEMES ET PROCEDES DE VERIFICATION DE FLUX DE TRAVAIL DE FABRICATION ADDITIVE
  - [72] PEREZ, JUAN CARLOS FLORES, US
  - [72] GLADKIKH, MIKHAIL, US
  - [71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
  - [85] 2023-11-07
  - [86] 2022-05-12 (PCT/US2022/072293)
  - [87] (WO2022/241459)
  - [30] US (63/188,955) 2021-05-14
  - [30] US (17/454,387) 2021-11-10
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[13] A1

- [51] Int.Cl. A61K 31/194 (2006.01) A61K 31/202 (2006.01)
  - [25] EN
  - [54] METHODS AND COMPOSITIONS FOR TREATING AGING AND CHRONIC DISEASE
  - [54] PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT DU VIEILLISSEMENT ET D'UNE MALADIE CHRONIQUE
  - [72] NIYIKIZA, CLET, US
  - [72] MOYO, VICTOR MANDLA, US
  - [71] L.E.A.F. HOLDINGS GROUP LLC, US
  - [85] 2023-11-07
  - [86] 2022-05-04 (PCT/US2022/027595)
  - [87] (WO2022/240626)
  - [30] US (63/186,737) 2021-05-10
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[13] A1

- [51] Int.Cl. A61K 8/21 (2006.01) A61K 8/24 (2006.01) A61K 8/27 (2006.01) A61K 8/44 (2006.01) A61K 8/46 (2006.01)
- [25] EN
- [54] ORAL CARE COMPOSITIONS
- [54] COMPOSITIONS DE SOIN BUCCAL
- [72] ZHANG, DENNIS, US
- [72] RINAUDI MARRON, LUCIANA, US
- [72] LAVENDER, STACEY ANN, US
- [72] EVANS, LAUREN, US
- [72] PATEL, NEETA ATUL, US
- [72] MALONEY, VENDA PORTER, US
- [72] NG, ALICE, US
- [71] COLGATE-PALMOLIVE COMPANY, US
- [85] 2023-11-07
- [86] 2022-05-24 (PCT/US2022/030743)
- [87] (WO2022/251228)
- [30] US (63/192,876) 2021-05-25
- [30] US (63/221,703) 2021-07-14

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[51] Int.Cl. G06Q 10/06 (2023.01) G06Q 10/10 (2023.01) G06Q 50/04 (2012.01) H04L 67/1097 (2022.01)
[25] EN
[54] SYSTEMS AND METHODS FOR VERIFYING MANUFACTURING WORKFLOWS
[54] SYSTEMES ET PROCEDES DE VERIFICATION DE FLUX DE TRAVAUX DE FABRICATION
[72] PEREZ, JUAN CARLOS FLORES, US
[72] GLADKIKH, MIKHAIL, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2023-11-07
[86] 2022-05-12 (PCT/US2022/072294)
[87] (WO2022/241460)
[30] US (63/188,955) 2021-05-14
[30] US (17/454,400) 2021-11-10

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<b>[21] 3,218,317</b> [13] A1
[51] Int.Cl. C07D 471/04 (2006.01) A61K 31/4184 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61P 35/02 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01) C07D 413/14 (2006.01)
[25] EN
[54] C-LINKED INHIBITORS OF ENL/AF9 YEATS
[54] INHIBITEURS A LIAISON C D'AMPLIFICATEURS DE YEATS ENL/AF9
[72] LADDUWAHETTY, TAMMY, GB
[72] VACCA, JOSEPH P., US
[72] DEGORCE, SEBASTIEN L., GB
[72] SHERBORNE, BRADLEY, GB
[72] KHAN, TANWEER A., US
[72] HUGGINS, DAVID JOHN, US
[72] LIVERTON, NIGEL, US
[71] BRIDGE MEDICINES, US
[85] 2023-11-07
[86] 2022-05-10 (PCT/US2022/028516)
[87] (WO2022/240830)
[30] US (63/188,426) 2021-05-13

<b>[21] 3,218,318</b> [13] A1
[25] EN
[54] INSULATED CONTAINERS AND METHODS FOR FORMING THE SAME
[54] RECIPIENTS ISOLES ET LEURS PROCEDES DE FORMATION
[72] MAO, YONGNING, US
[72] YERBY, PATRICK T., US
[71] BELVAC PRODUCTION MACHINERY, INC., US
[85] 2023-11-07
[86] 2022-05-11 (PCT/US2022/028846)
[87] (WO2022/241043)
[30] US (63/187,679) 2021-05-12

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<b>[21] 3,218,320</b> [13] A1
[51] Int.Cl. A61K 31/4375 (2006.01) A61K 31/685 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)

[25] EN
[54] COMPOSITIONS COMPRISING MIXTURES OF COMPOUNDS AND USES THEREOF
[54] COMPOSITIONS COMPRENANT DES MELANGES DE COMPOSES ET LEURS UTILISATIONS
[72] BROSSO, MARK, US
[72] MOORE, NICHOLAS ALLEN, GB
[71] PROSTASIS, LLC, US
[85] 2023-11-07
[86] 2022-05-18 (PCT/US2022/029804)
[87] (WO2022/245923)
[30] US (63/189,963) 2021-05-18

<b>[21] 3,218,321</b> [13] A1
[51] Int.Cl. G06Q 50/04 (2012.01) G06F 21/30 (2013.01) G06F 21/60 (2013.01)
[25] EN
[54] SYSTEMS AND METHODS FOR VERIFYING ADDITIVE MANUFACTURING WORKFLOWS
[54] SYSTEMES ET PROCEDES DE VERIFICATION DE FLUX DE TRAVAIL DE FABRICATION ADDITIVE
[72] PEREZ, JUAN CARLOS FLORES, US
[72] GLADKIKH, MIKHAIL, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2023-11-07
[86] 2022-05-12 (PCT/US2022/072291)
[87] (WO2022/241457)
[30] US (63/188,955) 2021-05-14
[30] US (17/454,349) 2021-11-10

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<b>[21] 3,218,323</b> [13] A1
[51] Int.Cl. H04L 5/00 (2006.01) H04W 24/10 (2009.01)
[25] EN
[54] METHODS AND NODES FOR IMR AND CMR ASSOCIATION FOR NCJT
[54] PROCEDES ET N?UDS POUR UNE ASSOCIATION IMR ET CMR POUR NCJT
[72] NILSSON, ANDREAS, SE
[72] MURUGANATHAN, SIVA, CA
[72] GAO, SHIWEI, CA
[72] MAATTANEN, HELKA-LIINA, FI
[71] TELEFONAKTIEBOLAGET LM ERICSSON, SE
[85] 2023-11-07
[86] 2022-05-11 (PCT/IB2022/054392)
[87] (WO2022/238929)
[30] US (63/187,100) 2021-05-11

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**[21] 3,218,326**  
[13] A1

- [51] Int.Cl. A61P 37/08 (2006.01)
- [25] EN
- [54] COMPOSITIONS AND METHODS FOR TREATING ALLERGIES AND INFLAMMATORY CONDITIONS
- [54] COMPOSITIONS ET METHODES DE TRAITEMENT D'ALLERGIES ET D'AFFECTIONS INFLAMMATOIRES
- [72] FALO JR., LOUIS D., US
- [72] KORKMAZ, EMRULLAH, US
- [72] SUMPTER, TINA L., US
- [71] UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
- [85] 2023-11-07
- [86] 2022-05-06 (PCT/US2022/028151)
- [87] (WO2022/236107)
- [30] US (63/185,912) 2021-05-07

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[13] A1

- [51] Int.Cl. C07K 7/06 (2006.01) C07K 7/08 (2006.01) C07K 14/47 (2006.01)
- [25] EN
- [54] TREM-2/DAP-12 INHIBITORS FOR TREATING LUNG DISEASE AND INJURY AND COMBINATIONS THEREOF
- [54] INHIBITEURS DE TREM-2/DAP-12 POUR TRAITER DES MALADIES ET DES LESION PULMONAIRES ET COMBINAISONS DE CEUX-CI
- [72] SIGALOV, ALEXANDER, US
- [71] SIGNABLK, INC., US
- [85] 2023-11-07
- [86] 2022-05-05 (PCT/US2022/027836)
- [87] (WO2022/245553)
- [30] US (63/190,497) 2021-05-19

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- [51] Int.Cl. B29C 70/02 (2006.01) B29C 70/68 (2006.01) B29C 70/78 (2006.01) B29C 70/88 (2006.01) B32B 5/26 (2006.01) C08G 59/14 (2006.01) C08K 5/17 (2006.01)
- [25] EN
- [54] COMPOSITE STRUCTURES COMPRISING METAL SUBSTRATES
- [54] STRUCTURES COMPOSITES COMPRENANT DES SUBSTRATS METALLIQUES
- [72] BURTT, JR. KENNETH WILLIAM, US
- [72] YEONG, YONG HAN, US
- [72] DUFFY, SHAWN PATRICK, US
- [72] MARTIN, JUSTIN JONATHAN, US
- [72] ARBAB, MEHRAN, US
- [72] LOVE, JONATHAN A., US
- [72] KHUDIAKOV, MIKHAIL, US
- [72] LIM, MARY LYN CHONG, US
- [72] PEFFER, ROBIN MICHELLE, US
- [71] PRC-DESO TO INTERNATIONAL, INC., US
- [85] 2023-11-07
- [86] 2022-05-23 (PCT/US2022/072495)
- [87] (WO2022/251804)
- [30] US (63/192,659) 2021-05-25
- [30] US (63/269,814) 2022-03-23

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- [51] Int.Cl. B01D 36/02 (2006.01) B01D 36/04 (2006.01)
- [25] EN
- [54] SYSTEMS AND METHODS TO RECOVER VALUE-ADDED MATERIALS FROM GYPSUM
- [54] SYSTEMES ET PROCEDES POUR RECUPERER DES MATERIAUX A VALEUR AJOUTEE A PARTIR DE GYPSE
- [72] PAPOUCHADO, LUCIEN M., US
- [72] SCHEETZ, BARRY E., US
- [72] PASSMORE, LEONARD, US
- [72] PRESTON, JOSEPH D., US
- [71] DAVY POWERSPORTS INC., US
- [85] 2023-11-07
- [86] 2022-05-16 (PCT/US2022/029451)
- [87] (WO2022/245733)
- [30] US (17/321,437) 2021-05-15

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[13] A1

- [51] Int.Cl. G06T 7/00 (2017.01) G06V 40/10 (2022.01) H04N 17/02 (2006.01)
- [25] EN
- [54] METHOD AND ELECTRONIC DEVICE FOR CAPTURING IMAGE OF OBJECT FOR IDENTIFYING COMPANION ANIMAL
- [54] PROCEDE ET DISPOSITIF ELECTRONIQUE PERMETTANT DE CAPTURER UNE IMAGE D'UN OBJET POUR IDENTIFIER UN ANIMAL DE COMPAGNIE
- [72] PAK, DAE HYUN, KR
- [72] LIM, JOON HO, KR
- [71] PETNOW INC., KR
- [85] 2023-11-07
- [86] 2022-06-27 (PCT/KR2022/009094)
- [87] (WO2023/277472)
- [30] KR (10-2021-0083752) 2021-06-28

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[13] A1

- [51] Int.Cl. F16K 11/074 (2006.01) F16K 11/072 (2006.01)
- [25] EN
- [54] PRESSURE SWING ADSORPTION DEVICE AND ROTARY VALVE THEREOF
- [54] DISPOSITIF D'ADSORPTION MODULEE EN PRESSION ET VALVE ROTATIVE ASSOCIEE
- [72] ZHANG, SHENGZHONG, CN
- [72] QIAO, KAI, CN
- [72] ZHANG, YANPENG, CN
- [72] FAN, DEQUAN, CN
- [72] YANG, YANG, CN
- [72] GAO, MING, CN
- [72] WANG, HONGTAO, CN
- [71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
- [71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
- [85] 2023-11-07
- [86] 2022-04-29 (PCT/CN2022/090133)
- [87] (WO2022/237573)
- [30] CN (202110497464.8) 2021-05-08

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[21] 3,218,333  
[13] A1

[25] EN  
[54] RECOMBINANT HERPESVIRALES VECTOR  
[54] VECTEUR DU VIRUS DE L'HERPES SIMPLEX RECOMBINANT  
[72] PECHAN, PETER, US  
[72] MANDAVA, SARATH CHANDRA, US  
[71] SOLID BIOSCIENCES INC., US  
[71] PECHAN, PETER, US  
[71] MANDAVA, SARATH CHANDRA, US  
[85] 2023-11-07  
[86] 2022-04-05 (PCT/US2022/023545)  
[87] (WO2022/216749)  
[30] US (63/170,749) 2021-04-05  
[30] US (63/285,338) 2021-12-02

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[13] A1

[51] Int.Cl. G01N 33/542 (2006.01)  
[25] EN  
[54] METHOD FOR DETERMINING THE BINDING OF AN ANTIBODY TO THE COMPLEMENT COMPONENT 1Q (C1Q)  
[54] PROCEDE DE DETERMINATION DE LA LIAISON D'UN ANTICORPS AU COMPOSANT DU COMPLEMENT 1Q (C1Q)  
[72] DOUAYRY, NAJIM, FR  
[72] MENSAT, PATRICK, FR  
[72] ROUX, THOMAS, FR  
[72] VALLAGHE, JULIE, FR  
[72] TRINQUET, ERIC, FR  
[71] CISBIO BIOASSAYS, FR  
[85] 2023-11-07  
[86] 2022-05-11 (PCT/EP2022/062793)  
[87] (WO2022/238486)  
[30] EP (21305617.9) 2021-05-12

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[21] 3,218,336  
[13] A1

[51] Int.Cl. E21B 29/02 (2006.01) E21B 37/06 (2006.01)  
[25] EN  
[54] DISSOLVABLE PLUG REMOVAL WITH EROSION TOOL  
[54] RETRAIT DE BOUCHON SOLUBLE AVEC UN OUTIL D'EROSION  
[72] BURKE, JASON, US  
[72] WHITE, MATTHEW L., US  
[72] ELLER, JOHN G., US  
[71] CONOCOPHILLIPS COMPANY, US  
[85] 2023-11-07  
[86] 2022-05-11 (PCT/US2022/028860)  
[87] (WO2022/241055)  
[30] US (63/188,806) 2021-05-14

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[21] 3,218,337  
[13] A1

[51] Int.Cl. B65D 88/16 (2006.01)  
[25] EN  
[54] FLEXIBLE CONTAINER, BULK BAG AND MATERIAL DISCHARGE ASSEMBLY  
[54] CONTENEUR SOUPLE ET ENSEMBLE DE DECHARGE DE MATIERES  
[72] HURTADO, RICARDO, US  
[72] DIAO, QIZHONG, US  
[72] WAWRZOS, FRANK, US  
[71] U.S. BORAX INC., US  
[85] 2023-11-07  
[86] 2022-05-02 (PCT/US2022/027218)  
[87] (WO2022/245526)  
[30] US (63/190,357) 2021-05-19

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[13] A1

[51] Int.Cl. A61K 9/20 (2006.01) A61K 38/00 (2006.01) A61P 1/00 (2006.01)  
[25] EN  
[54] ERODIBLE TABLET  
[54] COMPRIME ERODABLE  
[72] ABURUB, AKTHAM, US  
[72] DOGRA, MRIDULA, US  
[72] ELSAYED, MOHAMED ELSAYED HAMED, US  
[72] HUANG, SIYUAN, US  
[72] PATEL, PHENIL JAYANTILAL, US  
[72] TRAN, HUYEN THANH, US  
[71] ELI LILLY AND COMPANY, US  
[85] 2023-11-07  
[86] 2022-05-06 (PCT/US2022/027976)  
[87] (WO2022/235991)  
[30] US (63/185,615) 2021-05-07

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[21] 3,218,340  
[13] A1

[51] Int.Cl. C07D 487/10 (2006.01) A61P 3/10 (2006.01)  
[25] EN  
[54] PYRIDAZINES OR 1,2,4-TRIAZINES SUBSTITUTED BY SPIROCYCLIC AMINES  
[54] PYRIDAZINES OU 1,2,4-TRIAZINES SUBSTITUEES PAR DES AMINES SPIROCYCLIQUES  
[72] CAI, WEI, CN  
[72] DAI, XUEDONG, CN  
[72] QUEROLLE, OLIVIER ALEXIS GEORGES, FR  
[72] THURING, JOHANNES WILHELMUS J., BE  
[72] DENG, XIANGJUN, CN  
[72] FANG, LICHAO, CN  
[72] FU, LIQIANG, CN  
[72] LI, MING, CN  
[72] LIU, LIANZHU, CN  
[72] LIU, YINGTAO, CN  
[72] XU, YANPING, CN  
[72] PANDE, VINEET, BE  
[71] JANSSEN PHARMACEUTICA NV, BE  
[85] 2023-11-07  
[86] 2022-06-02 (PCT/CN2022/096734)  
[87] (WO2022/253289)  
[30] CN (PCT/CN2021/098067) 2021-06-03

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[13] A1

[51] Int.Cl. A61K 31/417 (2006.01) A61K 31/4174 (2006.01) C07D 233/04 (2006.01) C07D 233/06 (2006.01)  
[25] EN  
[54] HIGHLY PURE PHENTOLAMINE MESYLATE AND METHODS FOR MAKING SAME  
[54] MESYLATE DE PHENTOLAMINE DE HAUTE PURETE ET SES METHODES DE PRODUCTION  
[72] ONICIU, DANIELA CARMEN, US  
[71] OCUPHIRE PHARMA, INC., US  
[85] 2023-11-07  
[86] 2022-05-18 (PCT/US2022/029862)  
[87] (WO2022/245964)  
[30] US (63/189,839) 2021-05-18  
[30] CN (202110679032.9) 2021-06-18

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  - [25] EN
  - [54] ADENOVIRAL HELPER PLASMID
  - [54] PLASMIDE AUXILIAIRE  
ADENOVIRAL
  - [72] DISMUKE, DAVID, US
  - [71] FORGE BIOLOGICS, INC., US
  - [85] 2023-11-07
  - [86] 2022-05-13 (PCT/US2022/029193)
  - [87] (WO2022/241215)
  - [30] US (63/188,294) 2021-05-13
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[13] A1

- [51] Int.Cl. A61K 47/18 (2017.01)
  - [25] EN
  - [54] ANTIBODY COMPOSITION
  - [54] COMPOSITION D'ANTICORPS
  - [72] PRASEUTH, ALEX, US
  - [72] ZEN, KEVIN, US
  - [72] ALTOBELL III, LAURENCE, US
  - [72] MARINO, MARGARET H., US
  - [71] ANAPTYSBIO, INC., US
  - [85] 2023-11-07
  - [86] 2022-05-12 (PCT/US2022/029043)
  - [87] (WO2022/241148)
  - [30] US (63/187,476) 2021-05-12
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- [51] Int.Cl. C10L 1/04 (2006.01) C10L 1/16 (2006.01) C10L 1/182 (2006.01)
  - [25] EN
  - [54] BLENDED GASOLINE COMPOSITION
  - [54] COMPOSITION D'ESSENCE MELANGEE
  - [72] BURGER, JOHN, US
  - [71] BURGER, JOHN, US
  - [85] 2023-11-07
  - [86] 2021-08-12 (PCT/US2021/045749)
  - [87] (WO2022/235285)
  - [30] US (17/314,579) 2021-05-07
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- [51] Int.Cl. C07D 405/06 (2006.01) A61K 31/4184 (2006.01) A61P 3/10 (2006.01) C07D 498/08 (2006.01)
  - [25] EN
  - [54] MACROCYCLIC GLUCAGON-LIKE PEPTIDE 1 RECEPTOR AGONISTS
  - [54] AGONISTES MACROCYCLIQUES DU RECEPTEUR DU PEPTIDE 1 DE TYPE GLUCAGON
  - [72] AGEJAS CHICHARRO, FRANCISCO JAVIER, US
  - [72] BAUER, RENATO ALEJANDRO, US
  - [72] BELL, MICHAEL GREGORY, US
  - [72] CHEN, QI, US
  - [72] CUMMING, GRAHAM ROBERT, US
  - [72] FIELDS, TODD, US
  - [72] GERNERT, DOUGLAS LINN, US
  - [72] HO, JOSEPH DANIEL, US
  - [72] KAOUDI, TALBI ABELKADER, US
  - [72] MASQUELIN, THIERRY JEAN, US
  - [72] MINGUEZ ORTEGA, JOSE MIGUEL, US
  - [72] PRIEGO SOLER, JULIAN, US
  - [72] RODRIGUEZ HERGUETA, ANTONIO, US
  - [72] WOERLY, ERIC MICHAEL, US
  - [71] ELI LILLY AND COMPANY, US
  - [85] 2023-11-07
  - [86] 2022-05-19 (PCT/US2022/029958)
  - [87] (WO2022/246019)
  - [30] US (63/191,034) 2021-05-20
  - [30] US (63/254,564) 2021-10-12
  - [30] EP (21383172.0) 2021-12-21
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[13] A1

- [51] Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) C07D 487/04 (2006.01)
  - [25] EN
  - [54] SULFOXIMINE-CONTAINING ATR INHIBITOR COMPOUND
  - [54] COMPOSE INHIBITEUR DE L'ATR CONTENANT UNE SULFOXIMINE
  - [72] ZHANG, YINSHENG, CN
  - [72] ZHU, YAN, CN
  - [72] LIU, BAOMIN, CN
  - [72] GAI, KUO, CN
  - [72] CHEN, SHAOWEI, CN
  - [72] SHI, WEI, CN
  - [71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
  - [85] 2023-11-07
  - [86] 2022-05-12 (PCT/CN2022/092494)
  - [87] (WO2022/237875)
  - [30] CN (202110517129.X) 2021-05-12
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[13] A1

- [51] Int.Cl. G11B 7/1374 (2012.01) G11B 7/139 (2012.01) G02B 21/08 (2006.01) G11B 7/005 (2006.01) G11B 7/243 (2013.01)
  - [25] EN
  - [54] HIGH-SPEED READING BY COMBINING TRANSMISSIVE WIDE ANGLE VIEW WITH REFLECTIVE FOCUS VIEW
  - [54] LECTURE A GRANDE VITESSE PAR COMBINAISON D'UNE VUE A GRAND ANGLE TRANSMISSIF AVEC UNE VUE DE FOCALISATION REFLECHISSANTE
  - [72] PFLAUM, CHRISTIAN, DE
  - [71] CERAMIC DATA SOLUTIONS GMBH, AT
  - [85] 2023-11-07
  - [86] 2022-05-11 (PCT/EP2022/062856)
  - [87] (WO2022/243139)
  - [30] EP (21174124.4) 2021-05-17
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[13] A1

- [51] Int.Cl. E01H 5/06 (2006.01)
- [25] EN
- [54] CUTTING EDGE MOUNTING SLIDE FOR A SNOW PLOW
- [54] GLISSIERE DE MONTAGE DE BORD DE COUPE POUR CHASSE-NEIGE
- [72] MCNOLTY, JORDON, CA
- [71] YELLOWHEAD ROAD AND BRIDGE (VANDERHOOF) LTD., CA
- [85] 2023-11-07
- [86] 2022-05-24 (PCT/CA2022/050821)
- [87] (WO2022/251950)
- [30] US (63/195,848) 2021-06-02

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[13] A1

[51] **Int.Cl. F16L 9/17 (2006.01) F16L 9/16 (2006.01)**  
[25] EN  
[54] **PIPELINE ASSEMBLY AND MANUFACTURING METHOD THEREFOR**  
[54] **ENSEMBLE PIPELINE ET SON PROCEDE DE FABRICATION**  
[72] S. RATNAM, SRI SKANDA RAJAH, MY  
[71] S. RATNAM, SRI SKANDA RAJAH, MY  
[85] 2023-11-07  
[86] 2021-09-08 (PCT/MY2021/050071)  
[87] (WO2022/240280)  
[30] MY (PI2021002637) 2021-05-11

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[21] **3,218,350**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01)**  
[25] EN  
[54] **PRODUCTION OF RECOMBINANT AAV VECTORS FOR TREATING MUSCULAR DYSTROPHY**  
[54] **PRODUCTION DE VECTEURS AAV RECOMBINANTS POUR LE TRAITEMENT DE LA DYSTROPHIE MUSCULAIRE**  
[72] ALAM, MAROOF, US  
[72] RODINO-KLAPAC, LOUISE, US  
[71] SAREPTA THERAPEUTICS, INC., US  
[85] 2023-11-07  
[86] 2022-05-13 (PCT/US2022/029328)  
[87] (WO2022/245675)  
[30] US (63/189,676) 2021-05-17  
[30] US (63/209,733) 2021-06-11  
[30] US (63/243,944) 2021-09-14  
[30] US (63/253,998) 2021-10-08

[21] **3,218,351**  
[13] A1

[25] EN  
[54] **MICROBIAL INOCULANTS FOR PLANT GROWTH AND PATHOGEN RESISTANCE**  
[54] **INOCULANTS MICROBIENS POUR LA CROISSANCE DES PLANTES ET LA RESISTANCE AUX AGENTS PATHOGENES**  
[72] HOLDEN, VICTORIA I., US  
[72] SMITH, CHARLES, US  
[72] KOSKIE, KATELYNN, US  
[72] ZIMBRON, ROGELIO, US  
[72] EVANS, JACK, US  
[72] ZIOBRON, AMY, US  
[71] IMIO TECHNOLOGIES, INC., US  
[85] 2023-11-07  
[86] 2022-05-09 (PCT/US2022/028350)  
[87] (WO2022/236172)  
[30] US (63/185,677) 2021-05-07

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[21] **3,218,352**  
[13] A1

[25] EN  
[54] **MICROBIAL INOCULANTS FOR PLANT ROOTING CAPACITY AND GERMINATION RATE**  
[54] **INOCULANTS MICROBIENS POUR LA CAPACITE D'ENRACINEMENT ET LA VITESSE DE GERMINATION DES PLANTES**  
[72] HOLDEN, VICTORIA I., US  
[72] SMITH, CHARLES, US  
[72] KOSKIE, KATELYNN, US  
[72] ZIMBRON, ROGELIO, US  
[72] EVANS, JACK, US  
[72] ZIOBRON, AMY, US  
[71] FULL CIRCLE MICROBES, INC., US  
[85] 2023-11-07  
[86] 2022-05-09 (PCT/US2022/028368)  
[87] (WO2022/236179)  
[30] US (63/185,682) 2021-05-07

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[21] **3,218,353**  
[13] A1

[51] **Int.Cl. A47L 9/04 (2006.01)**  
[25] EN  
[54] **FLOOR BRUSH ASSEMBLY FOR VACUUM CLEANER AND VACUUM CLEANER**  
[54] **ENSEMBLE BROSSE DE PLANCHER POUR ASPIRATEUR ET ASPIRATEUR**  
[72] QIU, ZHIHONG, CN  
[72] HUANG, JIANMING, CN  
[72] WANG, YAKUN, CN  
[72] WEI, MIN, CN  
[72] CHENG, FUPING, CN  
[71] JIANGSU MIDEA CLEANING APPLIANCES CO., LTD., CN  
[71] MIDEA GROUP CO., LTD., CN  
[85] 2023-11-07  
[86] 2022-01-24 (PCT/CN2022/073518)  
[87] (WO2022/237235)  
[30] CN (202110507798.9) 2021-05-10

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[21] **3,218,354**  
[13] A1

[51] **Int.Cl. B63B 3/13 (2006.01) B63G 8/38 (2006.01)**  
[25] EN  
[54] **AN UNDERWATER PROBE OR SUBMERSIBLE**  
[54] **SONDE SOUS-MARINE OU SUBMERSIBLE**  
[72] TAYLOR, SHAWN, AU  
[72] CUTRI, ALEX, AU  
[72] NGUYEN, KHANG, AU  
[72] YOUSIF, SARMAD, AU  
[72] LE, THANH, AU  
[71] UAM TEC PTY LTD, AU  
[85] 2023-11-07  
[86] 2022-05-24 (PCT/AU2022/050496)  
[87] (WO2022/246504)  
[30] AU (2021901560) 2021-05-25

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**[21] 3,218,355**

[13] A1

[51] Int.Cl. A47L 9/04 (2006.01)

[25] EN

[54] FLOOR BRUSH ASSEMBLY FOR VACUUM CLEANER, AND VACUUM CLEANER  
[54] ENSEMBLE BROSSE DE PLANCHER POUR ASPIRATEUR ET ASPIRATEUR

[72] QIU, ZHIHONG, CN

[72] WANG, YAKUN, CN

[72] HUANG, JIANMING, CN

[72] WEI, MIN, CN

[72] CHENG, FUPING, CN

[71] JIANGSU MIDEA CLEANING APPLIANCES CO., LTD., CN

[71] MIDEA GROUP CO., LTD., CN

[85] 2023-11-07

[86] 2022-02-23 (PCT/CN2022/077462)

[87] (WO2022/237270)

[30] CN (202110506521.4) 2021-05-10

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**[21] 3,218,356**

[13] A1

[51] Int.Cl. A47J 31/36 (2006.01)

[25] EN

[54] GROUND COFFEE DISTRIBUTION METHOD, APPARATUS, AND SYSTEM

[54] PROCEDE ET SYSTEME DE DISTRIBUTION DE CAFE MOULU

[72] NISTA, EDWARD T., US

[72] MILLER, COLIN JACOB, US

[72] KNOWLES, JUSTIN MATTHEW, US

[71] HYAQU INC., US

[85] 2023-11-07

[86] 2022-05-31 (PCT/US2022/031636)

[87] (WO2022/256338)

[30] US (63/195,596) 2021-06-01

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**[21] 3,218,357**

[13] A1

[51] Int.Cl. C10G 11/18 (2006.01) C10L 1/04 (2006.01)

[25] EN

[54] PRODUCTS FROM FCC PROCESSING OF HIGH SATURATES AND LOW HETEROATOM FEEDS

[54] PRODUITS ISSUS DU TRAITEMENT DE CRAQUAGE CATALYTIQUE FLUIDE (FCC) DE CHARGES A TENEUR ELEVEE EN SATURATION ET A FAIBLE TENEUR EN HETEROATOMES

[72] DIAZ, CODY M., US

[72] YU, XINRUI, US

[72] ANDERSON, TIMOTHY J., US

[72] RUBIN-PITEL, SHERYL B, US

[72] LINDNER, MATTHEW H., US

[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US

[85] 2023-11-07

[86] 2022-05-06 (PCT/US2022/072148)

[87] (WO2022/241386)

[30] US (63/188,581) 2021-05-14

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[13] A1

[51] Int.Cl. A61K 38/17 (2006.01) A61K 47/64 (2017.01) A61P 25/28 (2006.01) A61P 39/00 (2006.01) C07K 14/47 (2006.01) C07K 19/00 (2006.01)

[25] EN

[54] METHODS FOR TREATMENT OF NEURON DEGENERATION

[54] METHODES DE TRAITEMENT DE LA DEGENERESCENCE NEURONALE

[72] STRONG, MICHAEL, CA

[72] DROPPELMANN, CRISTIAN, CA

[72] VOLKENING, KATHRYN, CA

[72] CAMPOS-MELO, DANAE, CA

[72] AMZIL, HIND, CA

[71] THE UNIVERSITY OF WESTERN ONTARIO, CA

[85] 2023-10-27

[86] 2022-04-29 (PCT/CA2022/050665)

[87] (WO2022/226662)

[30] US (63/181,452) 2021-04-29

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**[21] 3,218,360**

[13] A1

[51] Int.Cl. C12N 15/86 (2006.01)

[25] EN

[54] SYSTEM FOR HIGH-LEVEL RAAV PRODUCTION

[54] SYSTEME DE PRODUCTION DE VAAR A HAUT NIVEAU

[72] WEGER, STEFAN, DE

[72] HEILBRONN, REGINE, DE

[71] CHARITE - UNIVERSITATSMEDIZIN BERLIN, DE

[85] 2023-10-27

[86] 2022-06-30 (PCT/EP2022/068080)

[87] (WO2023/275260)

[30] EP (21183218.3) 2021-07-01

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[21] **3,218,361**  
[13] A1

[51] Int.Cl. C07C 403/24 (2006.01) A61P  
9/00 (2006.01)  
[25] EN  
[54] AMAROUCIAXANTHIN A ESTERS  
AND USES THEREOF  
[54] ESTERS  
D'AMAROUCIAXANTHINE A ET  
LEURS UTILISATIONS  
[72] GARCIA-DELGADO BANCHS,  
NOEMI, ES  
[72] RUIZ CANOVAS, EUGENIA, ES  
[72] MERCADÉ ROCA, JAUME, ES  
[71] GAT THERAPEUTICS, S.L., ES  
[85] 2023-10-27  
[86] 2022-07-18 (PCT/EP2022/070001)  
[87] (WO2023/285703)  
[30] EP (21382644.9) 2021-07-16

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[21] **3,218,362**  
[13] A1

[51] Int.Cl. C12N 7/00 (2006.01) C12N  
15/864 (2006.01)  
[25] EN  
[54] VIRAL VECTOR PRODUCTION  
SYSTEM  
[54] SYSTEME DE PRODUCTION DE  
VETEURS VIRAUX  
[72] BOSSE, ASTRID, CH  
[72] BOSSUGE, BENOIT, CH  
[72] CROUTE, LAURENCE, CH  
[72] ELLENRIEDER, LARS, CH  
[72] GUIANVARCH, LAURENCE, CH  
[72] SCHMITT, DAVID, FR  
[72] TOFFOLI, ELEONORA, CH  
[71] NOVARTIS AG, CH  
[85] 2023-10-27  
[86] 2022-04-27 (PCT/IB2022/053880)  
[87] (WO2022/229853)  
[30] US (63/180,423) 2021-04-27

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[21] **3,218,365**  
[13] A1

[51] Int.Cl. F16L 11/08 (2006.01) F16L  
11/127 (2006.01) G01B 11/16  
(2006.01) G01D 5/353 (2006.01)  
G01M 11/08 (2006.01)  
[25] EN  
[54] NON-METALLICS ENHANCED  
RELIABILITY VIA EMBEDDED  
SENSORS (NERVES): OPTICAL  
AND ELECTRICAL SENSORY  
NERVES  
[54] FIABILITE AMELIOREE NON  
METALLIQUE OBTENUE PAR  
L'INTERMEDIAIRE DE  
CAPTEURS INTEGRES (NERFS) :  
NERFS SENSORIELS OPTIQUES  
ET ELECTRIQUES  
[72] SHEHRI, ALI AL, SA  
[72] ALTHENAYAN, FAISAL, SA  
[72] YOUSSEF-TOUMI, KAMAL, SA  
[71] SAUDI ARABIAN OIL COMPANY,  
SA  
[85] 2023-10-30  
[86] 2022-04-04 (PCT/US2022/023332)  
[87] (WO2022/231785)  
[30] US (63/182,401) 2021-04-30  
[30] US (17/653,216) 2022-03-02

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[21] **3,218,366**  
[13] A1

[51] Int.Cl. A61M 5/14 (2006.01) A61G  
7/05 (2006.01)  
[25] EN  
[54] MECHANICAL LIFTS AND  
RELATED METHODS OF  
LIFTING MEDICAL FLUID  
CONTAINERS  
[54] DISPOSITIFS DE LEVAGE  
MECANIQUES ET PROCEDES  
ASSOCIES DE LEVAGE DE  
RECIPIENTS DE FLUIDE  
MEDICAL  
[72] DEL REAL PENA, DIEGO SUAREZ,  
US  
[72] HERNANDEZ, IRVING UZIEL, US  
[72] RAMIREZ, ORESTES SOTO, US  
[71] FRESENIUS MEDICAL CARE  
HOLDINGS, INC., US  
[85] 2023-10-30  
[86] 2022-04-12 (PCT/US2022/024370)  
[87] (WO2022/235398)  
[30] US (17/314,818) 2021-05-07

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[21] **3,218,367**  
[13] A1

[51] Int.Cl. F42B 33/06 (2006.01) C25C  
3/08 (2006.01) C25C 5/02 (2006.01)  
C25C 7/02 (2006.01) C25C 7/08  
(2006.01)  
[25] EN  
[54] APPARATUS FOR  
ELECTROCHEMICAL  
AMMUNITION DISPOSAL AND  
MATERIAL RECOVERY  
[54] APPAREIL POUR  
L'ELIMINATION DE MUNITIONS  
ELECTROCHIMIQUES ET LA  
RECUPERATION DE MATERIAU  
[72] YANG, CHEN-LU, US  
[72] SPRING, EDWARD W., US  
[71] THE UNIVERSITY OF  
MASSACHUSETTS, US  
[85] 2023-10-30  
[86] 2022-04-20 (PCT/US2022/025482)  
[87] (WO2022/235430)  
[30] US (63/183,669) 2021-05-04

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[21] **3,218,368**  
[13] A1

[51] Int.Cl. B25J 5/00 (2006.01) B25J 9/00  
(2006.01) B25J 9/10 (2006.01) B25J  
15/00 (2006.01)  
[25] EN  
[54] DEPLOYABLE ROBOTIC ARM  
[54] BRAS ROBOTIQUE DEPLOYABLE  
[72] RESH, BRADLEY AARON, US  
[72] BOUDREAUX, MICHAEL  
SANFORD, US  
[72] MITCHELL, DANIEL STEPHEN, US  
[72] JAMES, JOSHUA ALEXANDER, US  
[72] RIDDLE, STEVEN DAVID, US  
[72] CAMPBELL IV, ORION HUBERT, US  
[72] FOX, JONAS ALEXAN, US  
[72] PAINE, NICHOLAS ARDEN, US  
[71] APPTRONIK, INC, US  
[85] 2023-10-30  
[86] 2022-04-28 (PCT/US2022/026812)  
[87] (WO2022/232447)  
[30] US (63/181,007) 2021-04-28

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[13] A1

- [51] Int.Cl. A61B 34/00 (2016.01) A61B 34/30 (2016.01) A61B 46/10 (2016.01) A61B 90/00 (2016.01) A61B 90/50 (2016.01)
  - [25] EN
  - [54] KINEMATIC STRUCTURES AND STERILE DRAPE FOR ROBOTIC MICROSURGICAL PROCEDURES
  - [54] STRUCTURES CINÉMATIQUES ET CHAMPS STÉRILES POUR INTERVENTIONS MICROCHIRURGICALES ROBOTIQUES
  - [72] GIL, ARIEL, IL
  - [72] ARNOLD, OFER, IL
  - [72] GLOZMAN, DANIEL, IL
  - [71] FORSIGHT ROBOTICS LTD., IL
  - [85] 2023-10-30
  - [86] 2022-05-31 (PCT/IB2022/055086)
  - [87] (WO2022/254335)
  - [30] US (63/195,429) 2021-06-01
  - [30] US (63/229,593) 2021-08-05
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[13] A1

- [51] Int.Cl. E21B 43/24 (2006.01)
- [25] EN
- [54] ELECTROMAGNETIC WAVE HYBRID TOOL AND METHODS
- [54] OUTIL HYBRIDE A ONDES ELECTROMAGNETIQUES ET PROCEDES
- [72] BATARSEH, SAMEEH ISSA, SA
- [71] SAUDI ARABIAN OIL COMPANY, SA
- [85] 2023-10-30
- [86] 2022-05-11 (PCT/US2022/028795)
- [87] (WO2022/241004)
- [30] US (17/319,858) 2021-05-13

**[21] 3,218,372**

[13] A1

- [51] Int.Cl. E21B 17/05 (2006.01) E21B 36/02 (2006.01) E21B 36/04 (2006.01) E21B 43/24 (2006.01)
  - [25] EN
  - [54] HIGH POWER LASER IN-SITU HEATING AND STEAM GENERATION TOOL AND METHODS
  - [54] OUTIL ET PROCEDES DE CHAUFFAGE ET DE PRODUCTION DE VAPEUR IN SITU PAR LASER HAUTE PUSSANCE
  - [72] BATARSEH, SAMEEH ISSA, SA
  - [71] SAUDI ARABIAN OIL COMPANY, SA
  - [85] 2023-10-30
  - [86] 2022-05-11 (PCT/US2022/028789)
  - [87] (WO2022/241001)
  - [30] US (17/319,701) 2021-05-13
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[13] A1

- [51] Int.Cl. C07D 498/22 (2006.01)
- [25] EN
- [54] MACROCYCLIC COMPOUNDS AND USES THEREOF
- [54] COMPOSES MACROCYCLIQUES ET LEURS UTILISATIONS
- [72] HUANG, WEI-SHENG, US
- [72] SHAKESPEARE, WILLIAM C., US
- [72] EYERMANN, CHARLES J., US
- [72] DALGARNO, DAVID C., US
- [71] THESEUS PHARMACEUTICALS, INC., US
- [85] 2023-11-08
- [86] 2022-05-11 (PCT/US2022/028755)
- [87] (WO2022/240978)
- [30] US (63/187,041) 2021-05-11

**[21] 3,218,375**

[13] A1

- [51] Int.Cl. A61K 31/194 (2006.01) A23L 33/10 (2016.01) A61P 13/12 (2006.01) A61P 19/02 (2006.01)
  - [25] EN
  - [54] COMPOSITION FOR INCREASING MUSCLE MASS
  - [54] COMPOSITION POUR AUGMENTER LA MASSE MUSCULAIRE
  - [72] ABE, MICHIAKI, JP
  - [72] AKAISHI, TETSUYA, JP
  - [72] ISHIZAWA, KOTA, JP
  - [72] NAKAI, TOSHIKI, JP
  - [72] KAWAGUCHI, KAZUHIKO, JP
  - [72] YAMASAKI, SATOMI, JP
  - [72] NISHIOKA, KOICHIRO, JP
  - [72] SAKURAI, TETSUYA, JP
  - [71] TOHOKU UNIVERSITY, JP
  - [71] NIPPON CHEMIPHAR CO., LTD., JP
  - [85] 2023-11-08
  - [86] 2022-05-10 (PCT/JP2022/019747)
  - [87] (WO2022/239755)
  - [30] JP (2021-080076) 2021-05-10
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[13] A1

- [51] Int.Cl. A61P 21/04 (2006.01)
- [25] EN
- [54] USE OF COMPLEMENT FACTOR D INHIBITOR FOR TREATMENT OF GENERALIZED MYASTHENIA GRAVIS
- [54] UTILISATION D'UN INHIBITEUR DU FACTEUR D DU COMPLEMENT POUR LE TRAITEMENT DE LA MYASTHENIE GRAVE GENERALISEE
- [72] HUANG, MINGJUN, US
- [72] GAULT, LAURA MARIE, US
- [72] YOUNTZ, MARCUS RYAN, US
- [72] VARDI, MOSHE, US
- [72] CARRILLO-INFANTE, CYNTHIA, US
- [71] ALEXION PHARMACEUTICALS, INC., US
- [85] 2023-11-08
- [86] 2022-05-03 (PCT/US2022/027408)
- [87] (WO2022/240612)
- [30] US (63/186,301) 2021-05-10

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[13] A1

[51] Int.Cl. E21B 36/04 (2006.01) E21B 47/135 (2012.01) E21B 17/05 (2006.01) E21B 27/00 (2006.01) E21B 34/08 (2006.01) E21B 43/24 (2006.01)  
[25] EN  
[54] LASER GRAVITY HEATING  
[54] CHAUFFAGE PAR GRAVITE AU LASER  
[72] BATARSEH, SAMEEH ISSA, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2023-10-30  
[86] 2022-05-11 (PCT/US2022/028788)  
[87] (WO2022/241000)  
[30] US (17/319,798) 2021-05-13

**[21] 3,218,387**  
[13] A1

[51] Int.Cl. H05K 7/20 (2006.01)  
[25] EN  
[54] ELECTRONIC EQUIPMENT CABINETS WITH CONFIGURABLE AIR PLENUMS  
[54] ARMOIRES D'EQUIPEMENT ELECTRONIQUE A PLENUMS D'AIR CONFIGURABLES  
[72] ELKINS, JIN HARRISON, US  
[72] KHANDELWAL, ADARSH, IN  
[71] VERTIV CORPORATION, US  
[85] 2023-10-30  
[86] 2022-05-03 (PCT/US2022/027416)  
[87] (WO2022/235631)  
[30] US (63/183,921) 2021-05-04  
[30] IN (20221015016) 2022-03-18

**[21] 3,218,389**  
[13] A1

[51] Int.Cl. A01K 61/60 (2017.01)  
[25] EN  
[54] FISH FARMING CAGE UTILIZING LIVE BIOMASS AS DRIVING FORCE FOR WATER EXCHANGE  
[54] CAGE D'ELEVAGE DE POISSONS UTILISANT UNE BIOMASSE VIVANTE COMME FORCE D'ENTRAINEMENT POUR L'ECHANGE D'EAU  
[72] SANDSTAD, ALF REIDAR, NO  
[71] SEAFARMING SYSTEMS AS, NO  
[85] 2023-11-08  
[86] 2022-05-16 (PCT/NO2022/050110)  
[87] (WO2022/240296)  
[30] NO (20210606) 2021-05-14

**[21] 3,218,390**  
[13] A1

[51] Int.Cl. C12N 15/86 (2006.01) C12Q 1/66 (2006.01)  
[25] EN  
[54] COMPOSITIONS AND METHODS FOR MULTIPLEX DETECTION OF MICROORGANISMS USING PEPTIDE-TAGGED RECOMBINANT INFECTIOUS AGENTS  
[54] COMPOSITIONS ET PROCEDES DE DETECTION MULTIPLEX DE MICRO-ORGANISMES A L'AIDE D'AGENTS INFECTIEUX RECOMBINES MARQUES PAR DES PEPTIDES  
[72] ERICKSON, STEPHEN E., US  
[72] GIL, JOSE S., US  
[72] BROWN, MATTHEW J., US  
[71] LABORATORY CORPORATION OF AMERICA HOLDINGS, US  
[85] 2023-10-30  
[86] 2022-04-29 (PCT/US2022/027139)  
[87] (WO2022/232651)  
[30] US (63/182,188) 2021-04-30

**[21] 3,218,392**  
[13] A1

[51] Int.Cl. F16G 13/16 (2006.01)  
[25] EN  
[54] ENERGY CHAIN WITH A DRIVE UNIT, AND SYSTEM CONSISTING OF AN ENERGY CHAIN WITH A DRIVE UNIT AND A STORAGE UNIT  
[54] CHAINE D'ENERGIE COMPRENANT UNE UNITE D'ENTRAINEMENT, ET SYSTEME CONSTITUE D'UNE CHAINE D'ENERGIE COMPRENANT UNE UNITE D'ENTRAINEMENT ET UNE UNITE DE STOCKAGE  
[72] YILMAZ, BILAL, DE  
[72] MORITZ, SIMON, DE  
[72] HERMEY, ANDREAS, DE  
[71] IGUS GMBH, DE  
[85] 2023-10-27  
[86] 2022-05-03 (PCT/EP2022/061821)  
[87] (WO2022/233853)  
[30] DE (20 2021 102 371.6) 2021-05-03

**[21] 3,218,394**  
[13] A1

[51] Int.Cl. C02F 3/08 (2006.01) C02F 3/10 (2006.01) C02F 3/00 (2006.01) C12N 11/02 (2006.01)  
[25] EN  
[54] METHOD FOR REMOVAL OF NOXIOUS TASTE OR ODOR COMPOUNDS FROM AQUACULTURE SYSTEM BY BIOACTIVE HYDROPHOBIC CARRIERS  
[54] PROCEDE D'ELIMINATION DES COMPOSES ODORANTS OU GUSTATIFS NOCIFS DE SYSTEMES D'AQUACULTURE PAR DES SUPPORTS HYDROPHOBES BIOACTIFS  
[72] NUSSINOVITCH, AMOS, IL  
[72] VAN RIJN, JAAP, IL  
[71] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD., IL  
[85] 2023-10-30  
[86] 2022-03-20 (PCT/IL2022/050308)  
[87] (WO2022/201145)  
[30] US (63/163,891) 2021-03-21

**[21] 3,218,395**  
[13] A1

[51] Int.Cl. C12G 3/07 (2006.01)  
[25] EN  
[54] BEVERAGE PROCESSING METHOD AND APPARATUS  
[54] PROCEDE ET APPAREIL DE TRAITEMENT POUR BOISSON  
[72] ROBERTSON, DAVID GRAHAM, GB  
[72] LAUX, STEFAN (DECEASED), XX  
[71] REDLAYER LTD, GB  
[85] 2023-11-08  
[86] 2022-05-27 (PCT/GB2022/051371)  
[87] (WO2022/248888)  
[30] GB (2107705.2) 2021-05-28

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**[21] 3,218,396**  
[13] A1

[51] Int.Cl. H04M 3/42 (2006.01) H04M 3/58 (2006.01)  
[25] EN  
[54] SERVER APPARATUS,  
TELEPHONE CONNECTION  
METHOD AND TELEPHONE  
CONNECTION PROGRAM  
[54] DISPOSITIF SERVEUR, PROCEDE  
DE CONNEXION TELEPHONIQUE  
ET PROGRAMME DE  
CONNEXION TELEPHONIQUE  
[72] KAKINAGA, NAOMI, JP  
[72] SUTOU, KIYOHIDE, JP  
[72] KUBOTA, MASARU, JP  
[72] UDAGAWA, HIKARU, JP  
[71] NEC PLATFORMS, LTD., JP  
[85] 2023-10-30  
[86] 2021-12-23 (PCT/JP2021/048020)  
[87] (WO2023/074006)  
[30] JP (2021-177045) 2021-10-29

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**[21] 3,218,397**  
[13] A1

[51] Int.Cl. A01H 6/02 (2018.01) C12Q 1/6895 (2018.01) C12Q 1/68 (2018.01)  
[25] EN  
[54] SPINACH PLANT HAVING NOVEL  
DOWNY MILDEW RESISTANCE  
GENE  
[54] PLANT D'EPINARD AYANT UN  
NOUVEAU GENE RESISTANT AU  
MILDIOU  
[72] SUGIHARA, YUICHI, JP  
[72] NAKAMURA, YO, JP  
[72] KIMURA, RYO, JP  
[72] MORITAMA, YOSUKE, JP  
[71] SAKATA SEED CORPORATION, JP  
[85] 2023-11-08  
[86] 2022-05-12 (PCT/JP2022/020033)  
[87] (WO2022/239824)  
[30] JP (2021-080911) 2021-05-12

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**[21] 3,218,398**  
[13] A1

[51] Int.Cl. A61K 41/00 (2020.01)  
[25] EN  
[54] TREATMENT OF OCULAR  
DISEASES USING ENDOTHELIN  
RECEPTOR ANTAGONISTS  
[54] TRAITEMENT DE MALADIES  
OCULAIRES A L'AIDE  
D'ANTAGONISTES DU  
RECEPTEUR DE  
L'ENDOTHELIN  
[72] LIN, CHENG-WEN, US  
[72] GLENDENNING, ANGELA DAWN,  
US  
[72] GURKAN, SEVGI, US  
[71] PERFUSE THERAPEUTICS, INC., US  
[85] 2023-10-30  
[86] 2022-04-29 (PCT/US2022/027045)  
[87] (WO2022/232586)  
[30] US (63/182,750) 2021-04-30

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**[21] 3,218,400**  
[13] A1

[51] Int.Cl. C12N 5/071 (2010.01) C12N 5/074 (2010.01) A61K 35/545 (2015.01) A61K 9/10 (2006.01) A61K 35/30 (2015.01) A61L 27/38 (2006.01) A61L 27/54 (2006.01) A61P 27/02 (2006.01) C12M 3/00 (2006.01) C12N 1/00 (2006.01)  
[25] EN  
[54] CORD-LIKE AGGREGATES OF  
RETINAL PIGMENT EPITHELIAL  
CELLS, DEVICE AND  
PRODUCTION METHOD FOR  
PRODUCING SAME, AND  
THERAPEUTIC AGENT  
COMPRISING SAID CORD-LIKE  
AGGREGATES  
[54] AGREGAT SOUS FORME DE  
CORDON DE CELLULES DE  
L'EPITHELIUM PIGMENTAIRE  
RETINIEN, DISPOSITIF AINSI  
QUE PROCEDE DE  
FABRICATION DE CELUI-CI, ET  
REMEDE COMPRENANT CET  
AGREGAT SOUS FORME DE  
CORDON  
[72] TAKAHASHI, MASAYO, JP  
[72] TANAKA, YUJI, JP  
[72] TANAKA, YO, JP  
[72] TANAKA, NOBUYUKI, JP  
[72] AMAYA, SATOSHI, JP  
[72] NISHIDA, MITSUHIRO, JP  
[72] MANDAI, MICHIKO, JP  
[71] RIKEN, JP  
[85] 2023-10-30  
[86] 2022-04-28 (PCT/JP2022/019293)  
[87] (WO2022/230977)  
[30] JP (2021-078154) 2021-04-30

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[21] **3,218,401**  
[13] A1

[51] Int.Cl. A61K 31/4709 (2006.01) A61P  
7/06 (2006.01)  
[25] EN  
[54] METHODS FOR TITRATING  
MITAPIVAT  
[54] PROCEDES DE TITRAGE DE  
MITAPIVAT  
[72] BARBIER, ANN, US  
[72] BOWDEN, CHRISTOPHER, US  
[72] HAWKINS, PETER, US  
[72] IYER, VARSHA  
VENKATACHALAM, US  
[72] JOUVIN, MARIE-HELENE, US  
[71] AGIOS PHARMACEUTICALS, INC.,  
US  
[85] 2023-10-30  
[86] 2022-04-28 (PCT/US2022/026833)  
[87] (WO2022/232460)  
[30] IB (PCT/US2021/030312) 2021-04-30  
[30] IB (PCT/US2022/015684) 2022-02-08

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[21] **3,218,403**  
[13] A1

[51] Int.Cl. A61M 39/10 (2006.01)  
[25] EN  
[54] CATHETER ASSEMBLY HAVING  
AN ADJUSTABLE SIDE PORT  
ANGLE AND RELATED  
METHODS  
[54] ENSEMBLE CATHETER AYANT  
UN ANGLE DE PORT LATERAL  
REGLABLE ET PROCEDES  
ASSOCIES  
[72] LACKEY, BREANNA, US  
[72] LACKEY, JOHN, US  
[72] SCHERICH, MEGAN, US  
[72] HOPWOOD, BENJAMIN, US  
[71] BECTON, DICKINSON AND  
COMPANY, US  
[85] 2023-11-08  
[86] 2022-05-16 (PCT/US2022/029396)  
[87] (WO2022/245703)  
[30] US (63/190,641) 2021-05-19

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[21] **3,218,407**  
[13] A1

[51] Int.Cl. B05D 7/14 (2006.01) C09D 7/61  
(2018.01) C09D 7/65 (2018.01) B05D  
7/24 (2006.01) C09D 5/00 (2006.01)  
C09D 101/00 (2006.01) C09D 201/00  
(2006.01)  
[25] EN  
[54] AQUEOUS COATING  
COMPOSITION FOR  
AUTOMOTIVE EXTERIOR  
[54]  
[72] IKEURA, YUKIHIRO, JP  
[72] YOKOTA, GEN, JP  
[72] NISHIGUCHI, EISUKE, JP  
[72] YAMADA, HIROAKI, JP  
[71] KANSAI PAINT CO., LTD., JP  
[85] 2023-11-08  
[86] 2022-03-31 (PCT/JP2022/016615)  
[87] (WO2022/259744)  
[30] JP (2021-096364) 2021-06-09

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[21] **3,218,402**  
[13] A1

[51] Int.Cl. A61M 39/10 (2006.01)  
[25] EN  
[54] CATHETER ASSEMBLY HAVING  
A SIDE PORT PATHWAY AND  
RELATED METHODS  
[54] ENSEMBLE CATHETER  
COMPORTANT UN PASSAGE  
D'ORIFICE LATERAL ET  
METHODES ASSOCIEES  
[72] LACKEY, JOHN, US  
[72] BURKHOLZ, JONATHAN KARL, US  
[72] MA, YIPING, US  
[72] LACKEY, BREANNA, US  
[72] SONDEREGGER, RALPH L., US  
[72] MITCHELL, NATHAN, US  
[72] SCHERICH, MEGAN, US  
[72] BLANCHARD, CURTIS H., US  
[72] BOUD, ADAM J., US  
[72] ELEY, TAYLOR, US  
[72] LAUER, SHAUN, US  
[71] BECTON, DICKINSON AND  
COMPANY, US  
[85] 2023-11-08  
[86] 2022-05-13 (PCT/US2022/029141)  
[87] (WO2022/241189)  
[30] US (63/188,834) 2021-05-14

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[21] **3,218,406**  
[13] A1

[51] Int.Cl. B29D 30/00 (2006.01) B65H  
15/00 (2006.01) B65H 83/00 (2006.01)  
[25] EN  
[54] UNWINDING SYSTEM AND  
METHOD FOR UNWINDING A  
TIRE COMPONENT FROM A  
STOCK REEL AND FOR  
OUTPUTTING SAID TIRE  
COMPONENT IN A TRANSPORT  
DIRECTION  
[54] SYSTEME DE DEROULEMENT ET  
PROCEDE DE DEROULEMENT  
D'UN COMPOSANT DE  
PNEUMATIQUE A PARTIR D'UNE  
BOBINE DE RESERVE ET DE  
DELIVRANCE DUDIT  
COMPOSANT DE PNEUMATIQUE  
DANS UNE DIRECTION DE  
TRANSPOR  
[72] VISSER, RUBEN, NL  
[72] SLOTS, ANTONIE, NL  
[72] SCHERPENHUIZEN, HERMAN  
SEBASTIAAN, NL  
[71] VMI HOLLAND B.V., NL  
[85] 2023-11-08  
[86] 2022-05-09 (PCT/NL2022/050249)  
[87] (WO2022/250528)  
[30] NL (2028310) 2021-05-27  
[30] NL (2028312) 2021-05-27

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[21] **3,218,408**  
[13] A1

[51] Int.Cl. G06F 3/0484 (2022.01) B60W  
50/14 (2020.01)  
[25] EN  
[54] METHOD FOR GENERATING A  
GRAPHICAL USER INTERFACE  
AND A NON-TRANSITORY  
COMPUTER-READABLE  
MEDIUM  
[54] PROCEDE DE GENERATION  
D'UNE INTERFACE  
UTILISATEUR GRAPHIQUE ET  
SUPPORT NON TRANSITOIRE  
LISIBLE PAR ORDINATEUR  
[72] PANKOV, BORIS VALEREVICH, RU  
[71] PANKOV, BORIS VALEREVICH, RU  
[85] 2023-11-08  
[86] 2022-03-02 (PCT/RU2022/050064)  
[87] (WO2022/240313)  
[30] RU (2021113775) 2021-05-14

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**[21] 3,218,409**  
[13] A1

[51] Int.Cl. A61M 5/142 (2006.01) A61M 5/315 (2006.01)  
 [25] EN  
**[54] COMPACT POSITIVE DISPLACEMENT PUMP FOR WEARABLE DRUG DELIVERY DEVICE**  
**[54] POMPE VOLUMETRIQUE COMPACTE POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENT POUVANT ETRE PORTE**  
 [72] CARDINALI, STEVEN, US  
 [71] INSULET CORPORATION, US  
 [85] 2023-11-08  
 [86] 2022-05-20 (PCT/US2022/030192)  
 [87] (WO2022/246156)  
 [30] US (63/191,436) 2021-05-21

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**[21] 3,218,411**  
[13] A1

[51] Int.Cl. A01K 67/033 (2006.01)  
 [25] FR  
**[54] INSTALLATION FOR PRODUCING AND COLLECTING NEWLY-HATCHED LARVAE**  
**[54] INSTALLATION POUR LA PRODUCTION ET LA COLLECTE DE LARVES NEONATES**  
 [72] OGGIERI, BASTIEN, FR  
 [72] SCHULLER, AUDREY, FR  
 [72] TIXIER, ANTONIN, FR  
 [72] DE VOS, ANTOINE, FR  
 [71] INNOVAFEED, FR  
 [85] 2023-11-08  
 [86] 2022-05-09 (PCT/FR2022/050881)  
 [87] (WO2022/238646)  
 [30] FR (FR2104933) 2021-05-10

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**[21] 3,218,415**  
[13] A1

[51] Int.Cl. C21B 13/12 (2006.01)  
 [25] EN  
**[54] STEEL PLANT WITH ELECTRIC ARC FURNACE**  
**[54] ACIERIE AVEC FOUR A ARC ELECTRIQUE**  
 [72] BERTOLISSIO, ARRIGO, IT  
 [72] LANARI, ANDREA, IT  
 [71] SMS GROUP S.P.A, IT  
 [85] 2023-11-08  
 [86] 2022-05-05 (PCT/IB2022/054162)  
 [87] (WO2022/238822)  
 [30] IT (102021000012065) 2021-05-11

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**[21] 3,218,416**  
[13] A1

[51] Int.Cl. C07C 29/34 (2006.01) C01F 11/18 (2006.01) C07C 31/12 (2006.01)  
 [25] EN  
**[54] PROCESS FOR PREPARING AN ALCOHOL USING A SURFACE-REACTION CALCIUM CARBONATE CATALYST**  
**[54] PROCEDE POUR LA PREPARATION D'UN ALCOOL A L'AIDE D'UN CATALYSEUR CARBONATE DE CALCIUM AYANT REAGI EN SURFACE**  
 [72] FTOUNI, JAMAL, CH  
 [72] THARUN, JOSE, NL  
 [72] BRUIJNINCX, PETER C.A., NL  
 [71] OMYA INTERNATIONAL AG, CH  
 [85] 2023-11-08  
 [86] 2022-07-05 (PCT/EP2022/068503)  
 [87] (WO2023/285198)  
 [30] EP (21185121.7) 2021-07-12

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**[21] 3,218,417**  
[13] A1

[51] Int.Cl. C04B 28/06 (2006.01) E21D 20/02 (2006.01) F16B 13/14 (2006.01)  
 [25] EN  
**[54] FASTENING ARRANGEMENT COMPRISING A THREAD-FORMING SCREW AND A CURED ALUMINATE-CONTAINING INORGANIC COMPOSITION**  
**[54] ENSEMBLE DE FIXATION COMPRENANT UNE VIS TARAUDÉEUSE ET UN COMPOSÉ INORGANIQUE CONTENANT DE L'ALUMINATE DURCI**  
 [72] SCHONLEIN, MARKUS, DE  
 [72] KUMRU, MEMET-EMIN, DE  
 [71] HILTI AKTIENGESELLSCHAFT, LI  
 [85] 2023-11-08  
 [86] 2022-06-22 (PCT/EP2022/067027)  
 [87] (WO2023/280570)  
 [30] EP (21184423.8) 2021-07-08

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**[21] 3,218,418**  
[13] A1

[51] Int.Cl. G02F 1/13 (2006.01) G02F 1/133 (2006.01) G02F 1/1343 (2006.01) G02F 1/1347 (2006.01)  
 [25] EN  
**[54] OPTICAL ELEMENT ELEMENT OPTIQUE**  
 [72] IKEDA, KOJIRO, JP  
 [72] KOITO, TAKEO, JP  
 [71] JAPAN DISPLAY INC., JP  
 [85] 2023-11-08  
 [86] 2022-04-28 (PCT/JP2022/019371)  
 [87] (WO2022/239680)  
 [30] JP (2021-081218) 2021-05-12

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**[21] 3,218,420**  
[13] A1

[51] Int.Cl. B60L 58/12 (2019.01)  
 [25] EN  
**[54] LITHIUM-ION BATTERY CHARGING SYSTEM FOR FORK LIFTS**  
**[54] SYSTEME DE CHARGE DE BATTERIE AU LITHIUM-ION POUR ELEVATEURS A FOURCHE**  
 [72] GUGLIELMO, KENNON, US  
 [71] ECONTROLS, LLC, US  
 [85] 2023-11-08  
 [86] 2022-06-06 (PCT/US2022/032298)  
 [87] (WO2022/256730)  
 [30] US (63/196,813) 2021-06-04

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[21] 3,218,421  
[13] A1

[51] Int.Cl. C07K 14/08 (2006.01) C07K 16/10 (2006.01)  
[25] EN  
[54] SARS-COV-2 IMMUNOASSAY METHOD AND IMMUNOASSAY KIT, AND MONOCLOINAL ANTIBODY OR ANTIBODY FRAGMENT THEREOF  
[54] PROCEDE DE DOSAGE IMMUNOLOGIQUE DU SARS-COV-2 ET KIT DE DOSAGE IMMUNOLOGIQUE, ET ANTICORPS MONOCLONAL OU FRAGMENT D'ANTICORPS ASSOCIE  
[72] HIROTA, JIRO, JP  
[72] UNO, SATORU, JP  
[72] OCHIAI, YASUSHI, JP  
[72] YAJI, SHOHEI, JP  
[72] HEWSON, CHRISTOPHER KENTA, JP  
[72] KOHNO, KEIGO, JP  
[72] ASAI, TOMOHIDE, JP  
[71] SEKISUI MEDICAL CO., LTD., JP  
[85] 2023-11-08  
[86] 2022-06-16 (PCT/JP2022/024133)  
[87] (WO2022/265065)  
[30] JP (2021-100117) 2021-06-16

[21] 3,218,423  
[13] A1

[51] Int.Cl. C07K 14/165 (2006.01) C12N 15/50 (2006.01)  
[25] EN  
[54] SARS-COV-2 IMMUNOASSAY METHOD AND IMMUNOASSAY KIT  
[54] PROCEDE DE DOSAGE IMMUNOLOGIQUE DU SARS-COV-2 ET KIT DE DOSAGE IMMUNOLOGIQUE  
[72] HIROTA, JIRO, JP  
[72] UNO, SATORU, JP  
[72] OCHIAI, YASUSHI, JP  
[72] ITO, SHIZUKA, JP  
[72] WATANABE, KEISUKE, JP  
[72] OKUYAMA, SHINYA, JP  
[72] ASAI, TOMOHIDE, JP  
[71] SEKISUI MEDICAL CO., LTD., JP  
[85] 2023-11-08  
[86] 2022-06-16 (PCT/JP2022/024134)  
[87] (WO2022/265066)  
[30] JP (2021-100123) 2021-06-16

[21] 3,218,425  
[13] A1

[25] EN  
[54] A PILL GRINDER  
[54] BROYEUR DE PILULE  
[72] GREGORY, PAUL, GB  
[71] WIZARD TABEZE LIMITED, GB  
[85] 2023-11-08  
[86] 2022-05-19 (PCT/IB2022/054663)  
[87] (WO2022/243918)  
[30] GB (2107271.5) 2021-05-20

[21] 3,218,426  
[13] A1

[51] Int.Cl. C09D 11/106 (2014.01) A61K 8/81 (2006.01) C02F 1/56 (2006.01) C07C 211/63 (2006.01) C08F 226/04 (2006.01) C09K 8/035 (2006.01) C09K 8/12 (2006.01) C09K 8/44 (2006.01) C09K 8/588 (2006.01) C09K 8/68 (2006.01) C09K 8/88 (2006.01) D06P 1/52 (2006.01) D21H 17/02 (2006.01) D21H 17/11 (2006.01) D21H 17/45 (2006.01) E21B 21/06 (2006.01)

[25] EN  
[54] PROCESS FOR OBTAINING BIO-SOURCED DIALLYLDIALKYLAMMONIUM HALIDE  
[54] PROCEDE D'OBTENTION D'HALOGENURE DE DIALLYLDIALKYLAMMONIUM BIOSOURCE

[72] FAVERO, CEDRICK, FR  
[72] KIEFFER, JOHANN, FR  
[71] SNF GROUP, FR  
[85] 2023-11-08  
[86] 2022-07-08 (PCT/EP2022/069137)  
[87] (WO2023/281078)  
[30] FR (FR2107498) 2021-07-09

[21] 3,218,427  
[13] A1

[51] Int.Cl. C07C 233/03 (2006.01) C07C 231/08 (2006.01)  
[25] EN  
[54] METHOD FOR OBTAINING BIO-SOURCED N-VINYLFORMAMIDE  
[54] PROCEDE D'OBTENTION DE N-VINYLFORMAMIDE BIOSOURCE  
[72] FAVERO, CEDRICK, FR  
[72] KIEFFER, JOHANN, FR  
[71] SNF GROUP, FR  
[85] 2023-11-08  
[86] 2022-07-08 (PCT/EP2022/069153)  
[87] (WO2023/281086)  
[30] FR (FR2107497) 2021-07-09

[21] 3,218,428  
[13] A1

[51] Int.Cl. F17D 1/04 (2006.01) C25B 1/02 (2006.01) C25B 1/04 (2021.01) F17C 5/06 (2006.01)  
[25] EN  
[54] DISTRIBUTED HYDROGEN ENERGY SYSTEM AND METHOD  
[54] SYSTEME ET PROCEDE D'ENERGIE A HYDROGENE DISTRIBUE  
[72] JORGENSEN, JOEL, US  
[72] NELSON, THOMAS, US  
[71] BWR INNOVATIONS LLC, US  
[85] 2023-11-08  
[86] 2022-06-13 (PCT/US2022/033198)  
[87] (WO2022/261529)  
[30] US (63/209,478) 2021-06-11  
[30] US (17/837,101) 2022-06-10

[21] 3,218,431  
[13] A1

[51] Int.Cl. H01L 21/265 (2006.01)  
[25] EN  
[54] ION PRODUCTION SYSTEM WITH EFFICIENT ION COLLECTION  
[54] SYSTEME DE PRODUCTION D'IONS AVEC COLLECTE D'IONS EFFICACE  
[72] SHERMAN, JOSEPH, US  
[72] CHEREKDJIAN, SARKO, US  
[71] SHINE TECHNOLOGIES, LLC, US  
[85] 2023-11-08  
[86] 2022-05-13 (PCT/US2022/029153)  
[87] (WO2022/241196)  
[30] US (63/188,729) 2021-05-14

[21] 3,218,433  
[13] A1

[51] Int.Cl. D04H 3/011 (2012.01)  
[25] EN  
[54] NONWOVEN FABRIC WITH ENHANCED STRENGTH  
[54] TISSU NON TISSE A RESISTANCE AMELIOREE  
[72] POLASKOVA, NIKOL, CZ  
[72] KOLARIK, ROMAN, CZ  
[72] KAUSCHKE, MICHAEL, DE  
[71] PFNONWOVENS HOLDING S.R.O., CZ  
[71] PFNONWOVENS CZECH S.R.O., CZ  
[85] 2023-11-08  
[86] 2022-05-13 (PCT/CZ2022/050052)  
[87] (WO2022/237925)  
[30] CZ (PV 2021-234) 2021-05-14

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**[21] 3,218,436**  
[13] A1

- [51] Int.Cl. A61K 31/4375 (2006.01)
  - [25] EN
  - [54] RIPRETNIB FOR TREATING MELANOMA
  - [54] RIPRETNIB POUR LE TRAITEMENT DU MELANOME
  - [72] SOTO, RODRIGO RUIZ, US
  - [72] SU, YING, US
  - [71] DECIPHERA PHARMACEUTICALS, LLC, US
  - [85] 2023-11-08
  - [86] 2022-05-10 (PCT/US2022/028456)
  - [87] (WO2022/240799)
  - [30] US (63/187,903) 2021-05-12
  - [30] US (63/231,384) 2021-08-10
  - [30] US (63/313,570) 2022-02-24
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**[21] 3,218,439**  
[13] A1

- [51] Int.Cl. G16B 25/10 (2019.01) C12Q 1/6886 (2018.01) G16B 40/00 (2019.01)
  - [25] EN
  - [54] IDENTIFICATION AND DESIGN OF CANCER THERAPIES BASED ON RNA SEQUENCING
  - [54] IDENTIFICATION ET CONCEPTION DE THERAPIES ANTICANCEREUSES BASEES SUR LE SEQUENCAGE D'ARN
  - [72] PEDERSEN, MORTEN LORENTZ, US
  - [72] PEDERSEN, GITTE LAURETTE, US
  - [72] KANIGAN, TANYA SHARLENE, US
  - [71] GENOMIC EXPRESSION INC., US
  - [85] 2023-11-08
  - [86] 2022-05-10 (PCT/US2022/028582)
  - [87] (WO2022/240867)
  - [30] US (63/187,210) 2021-05-11
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**[21] 3,218,441**  
[13] A1

- [51] Int.Cl. A47K 10/38 (2006.01)
  - [25] EN
  - [54] METHOD AND APPARATUS FOR DISPENSING TOILET PAPER
  - [54] PROCEDE ET APPAREIL DE DISTRIBUTION DE PAPIER HYGIENIQUE
  - [72] SOLTAU, SAMANTHA JANE, US
  - [71] SOLTAU, SAMANTHA JANE, US
  - [85] 2023-11-08
  - [86] 2022-05-12 (PCT/US2022/029006)
  - [87] (WO2022/241124)
  - [30] US (63/187,514) 2021-05-12
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**[21] 3,218,442**  
[13] A1

- [51] Int.Cl. C07D 401/14 (2006.01) A61K 31/4439 (2006.01) C07D 401/04 (2006.01) C07D 471/04 (2006.01) C07D 513/04 (2006.01) C07D 515/18 (2006.01)
  - [25] EN
  - [54] TARGETED PROTEIN DEGRADATION USING BIFUNCTIONAL COMPOUNDS THAT BIND UBIQUITIN LIGASE AND TARGET MCL-1 PROTEIN
  - [54] DEGRADATION DE PROTEINE CIBLEE A L'AIDE DE COMPOSES BIFONCTIONNELS QUI SE LIENT A LA LIGASE D'UBIQUITINE ET A LA PROTEINE MCL-1 CIBLE
  - [72] COTTENS, SYLVAIN, CH
  - [72] DREWNIAK-SWITALSKA, MAGDA, PL
  - [72] KACZANOWSKA, KATARZYNA, PL
  - [72] TOMCZYK, TOMASZ, PL
  - [72] TRACZ, ANDRZEJ, PL
  - [72] WALCZAK, MICHAL, PL
  - [72] WOJCIK, KAROLINA, PL
  - [71] CAPTOR THERAPEUTICS S.A., PL
  - [85] 2023-11-08
  - [86] 2022-05-27 (PCT/EP2022/064481)
  - [87] (WO2022/253713)
  - [30] PL (PCT/PL2021/000030) 2021-06-01
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**[21] 3,218,443**  
[13] A1

- [51] Int.Cl. E04B 2/08 (2006.01)
  - [25] EN
  - [54] RAPID WALL BUILDING SYSTEM AND METHOD
  - [54] SYSTEME ET PROCEDE DE CONSTRUCTION DE MUR RAPIDE
  - [72] SCHOFIELD, WILLIAM J., US
  - [72] CANNON, DANIEL SCOTT, US
  - [72] KMITA, GERARD J., US
  - [72] MASSER, JEREMY, US
  - [71] SCHOFIELD TECHNOLOGIES, INC., US
  - [85] 2023-11-08
  - [86] 2022-05-12 (PCT/US2022/028896)
  - [87] (WO2022/241063)
  - [30] US (63/187,438) 2021-05-12
  - [30] US (29/787,993) 2021-06-09
  - [30] US (29/787,996) 2021-06-09
  - [30] US (29/787,999) 2021-06-09
  - [30] US (63/208,949) 2021-06-09
  - [30] US (63/223,779) 2021-07-20
  - [30] US (63/316,386) 2022-03-03
  - [30] US (29/834,548) 2022-04-12
  - [30] US (63/340,537) 2022-05-11
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**[21] 3,218,444**  
[13] A1

- [51] Int.Cl. A61P 25/28 (2006.01)
  - [25] EN
  - [54] USE OF RAGE INHIBITORS TO TREAT CANCER-RELATED COGNITIVE DECLINE
  - [54] UTILISATION D'INHIBITEURS DE RAGE POUR TRAITER UN DECLIN COGNITIF LIE AU CANCER
  - [72] LIPPMAN, MARC E., US
  - [72] HUDSON, BARRY I., US
  - [72] MANDELBLATT, JEANNE, US
  - [72] REBECK, G. WILLIAM, US
  - [71] GEORGETOWN UNIVERSITY, US
  - [85] 2023-11-08
  - [86] 2022-05-11 (PCT/US2022/028741)
  - [87] (WO2022/240970)
  - [30] US (63/187,351) 2021-05-11
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**[21] 3,218,445**  
[13] A1

- [25] EN
- [54] SYSTEM, COMPUTER-IMPLEMENTED POSITIONING METHOD, COMPUTER PROGRAM AND NON-VOLATILE DATA CARRIER
- [54] SYSTEME, PROCEDE DE POSITIONNEMENT MIS EN ?UVRE PAR ORDINATEUR, PROGRAMME INFORMATIQUE ET SUPPORT DE DONNEES NON VOLATIL
- [72] ERIKSSON, GORAN, SE
- [72] UMEGARD, ANDERS, SE
- [71] DELAVAL HOLDING AB, SE
- [85] 2023-11-08
- [86] 2022-06-02 (PCT/SE2022/050538)
- [87] (WO2022/260575)
- [30] SE (2150724-9) 2021-06-08

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<p>[21] <b>3,218,446</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>SAMPLE PROCESSING APPARATUS AND SAMPLE PROCESSING METHOD</b></p> <p>[54] <b>APPAREIL DE TRAITEMENT D'ECHANTILLON ET PROCEDE DE TRAITEMENT D'ECHANTILLON</b></p> <p>[72] LI, XIANG, CN</p> <p>[72] HAN, YUGUANG, CN</p> <p>[72] FENG, HUIYING, CN</p> <p>[71] COYOTE BIOSCIENCE CO., LTD., CN</p> <p>[85] 2023-11-08</p> <p>[86] 2022-05-12 (PCT/CN2022/092434)</p> <p>[87] (WO2022/237868)</p> <p>[30] CN (PCT/CN2021/093357) 2021-05-12</p>
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<p>[21] <b>3,218,447</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 36/074 (2006.01) A61P 17/06 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHOD FOR TREATMENT OF PSORIASIS</b></p> <p>[54] <b>PROCEDE DE TRAITEMENT DU PSORIASIS</b></p> <p>[72] HSIN, SHAOCHI, CN</p> <p>[71] HSIN, SHAOCHI, CN</p> <p>[85] 2023-11-08</p> <p>[86] 2022-05-11 (PCT/CN2022/092217)</p> <p>[87] (WO2022/237835)</p> <p>[30] US (63/187,092) 2021-05-11</p>
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<p>[21] <b>3,218,448</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>COMBINATION TREATMENT METHODS</b></p> <p>[54] <b>PROCEDES DE TRAITEMENT COMBINES</b></p> <p>[72] ROSE, JED E., US</p> <p>[71] ROSE RESEARCH CENTER, LLC, US</p> <p>[85] 2023-11-08</p> <p>[86] 2022-05-10 (PCT/US2022/028504)</p> <p>[87] (WO2022/240819)</p> <p>[30] US (63/187,001) 2021-05-11</p>
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<p>[21] <b>3,218,449</b> [13] A1</p> <p>[51] <b>Int.Cl. A42B 3/24 (2006.01) B63C 11/28 (2006.01) G02C 11/08 (2006.01) H02M 3/156 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>ANTI-CONDENSATION EYEWEAR</b></p> <p>[54] <b>LUNETTES ANTI-CONDENSATION</b></p> <p>[72] YU, HAIPING, US</p> <p>[72] WORTHINGTON, TAYLOR, US</p> <p>[71] GENTEX CORPORATION, US</p> <p>[85] 2023-11-08</p> <p>[86] 2022-06-03 (PCT/US2022/032088)</p> <p>[87] (WO2022/256608)</p> <p>[30] US (63/196,404) 2021-06-03</p>
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<p>[21] <b>3,218,451</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>DEPTH-SURFACE IMAGING DEVICE FOR REGISTERING ULTRASOUND IMAGES TO EACH OTHER AND TO SURFACE IMAGES BY USING SURFACE INFORMATION</b></p> <p>[54] <b>DISPOSITIF D'IMAGERIE DE SURFACE-EN PROFONDEUR POUR ENREGISTRER DES IMAGES ULTRASONORES LES UNES SUR LES AUTRES ET SUR DES IMAGES DE SURFACE AU MOYEN D'INFORMATIONS DE SURFACE</b></p> <p>[72] GYONGY, MIKLOS, HU</p> <p>[72] FUZESI, KRISZTIAN, HU</p> <p>[72] CSANY, GERGELY, HU</p> <p>[72] SZIKSZAY-MOLNAR, GERM?, HU</p> <p>[71] DERMUS KFT, HU</p> <p>[85] 2023-11-08</p> <p>[86] 2022-03-28 (PCT/HU2022/050026)</p> <p>[87] (WO2022/243714)</p> <p>[30] HU (P2100200) 2021-05-20</p>
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<p>[21] <b>3,218,453</b> [13] A1</p> <p>[51] <b>Int.Cl. E05D 3/16 (2006.01) E05F 1/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>ADJUSTABLE DAMPED SNAP-ACTING HINGE</b></p> <p>[54] <b>CHARNIERE A DETENTE BRUSQUE AMORTIE REGLABLE</b></p> <p>[72] ZETTI, DANIELE, IT</p> <p>[71] D.G.N. S.R.L., IT</p> <p>[85] 2023-11-08</p> <p>[86] 2022-05-03 (PCT/EP2022/061858)</p> <p>[87] (WO2022/238182)</p> <p>[30] IT (102021000012311) 2021-05-13</p>
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## PCT Applications Entering the National Phase

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**[21] 3,218,454**  
[13] A1

[25] EN  
**[54] SYSTEMS AND METHODS FOR PROVIDING A READING FROM A RANGEFINDING DEVICE**  
**[54] SYSTEMES ET PROCEDES POUR FOURNIR UNE LECTURE A PARTIR D'UN DISPOSITIF DE TELEMETRIE**  
[72] MORELL, ROB, US  
[72] CAMPBELL, RICHARD, US  
[71] SHELTERED WINGS, INC. D/B/A VORTEX OPTICS, US  
[85] 2023-11-08  
[86] 2022-05-12 (PCT/US2022/029018)  
[87] (WO2022/241132)  
[30] US (63/187,649) 2021-05-12

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**[21] 3,218,455**  
[13] A1

[51] Int.Cl. C07K 16/28 (2006.01)  
[25] EN  
**[54] ANTI-TMPRSS6 ANTIBODIES AND USES THEREOF**  
**[54] ANTICORPS ANTI-TMPRSS6 ET LEURS UTILISATIONS**  
[72] CHIN, HARVEY, US  
[72] HATSELL, SARAH J., US  
[72] LOB, HEINRICH EMIL, US  
[72] MURPHY, ANDREW J., US  
[72] OLSON, WILLIAM, US  
[72] SAOTOME, KEI, US  
[72] ZHANG, BOJIE, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2023-11-08  
[86] 2022-05-10 (PCT/US2022/028595)  
[87] (WO2022/240877)  
[30] US (63/187,150) 2021-05-11

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**[21] 3,218,456**  
[13] A1

[51] Int.Cl. B60L 53/12 (2019.01) B60L 53/126 (2019.01) B60L 53/30 (2019.01)  
[25] EN  
**[54] PRECISION CHARGING CONTROL OF AN UNTETHERED VEHICLE WITH A MODULAR VEHICLE CHARGING ROADWAY**  
**[54] COMMANDE DE CHARGE DE PRECISION D'UN VEHICULE NON ATTACHE AVEC UNE ROUTE DE CHARGE DE VEHICULE MODULAIRE**  
[72] COPELAND, DAVID ALAN, US  
[71] COPELAND, DAVID ALAN, US  
[85] 2023-11-08  
[86] 2022-05-12 (PCT/US2022/029037)  
[87] (WO2022/241145)  
[30] US (63/187,523) 2021-05-12

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**[21] 3,218,457**  
[13] A1

[51] Int.Cl. A23G 3/36 (2006.01)  
[25] EN  
**[54] FLAVOR BEADS AND METHOD OF MAKING AND USING SAME**  
**[54] BILLES D'AROME ET LEUR PROCEDE DE FABRICATION ET D'UTILISATION**  
[72] COLE, JASON C., US  
[72] WIELAND, ROBERT B., US  
[71] V. MANE FILS, FR  
[85] 2023-11-08  
[86] 2022-05-17 (PCT/IB2022/000273)  
[87] (WO2022/243747)  
[30] US (63/191,043) 2021-05-20

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**[21] 3,218,459**  
[13] A1

[25] EN  
**[54] METHOD, APPARATUS, AND COMPUTER-READABLE STORAGE MEDIUM FOR RECOGNIZING CHARACTERS IN A DIGITAL DOCUMENT**  
**[54] PROCEDE, APPAREIL ET SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR POUR RECONNAITRE DES CARACTERES DANS UN DOCUMENT NUMERIQUE**  
[72] DAHER, MOE, US  
[72] SHADID, WASEEM, US  
[71] LEAD TECHNOLOGIES, INC., US  
[85] 2023-11-08  
[86] 2021-06-02 (PCT/US2021/035408)  
[87] (WO2022/256003)  
[30] US (17/335,547) 2021-06-01

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**[21] 3,218,460**  
[13] A1

[51] Int.Cl. H01G 4/12 (2006.01)  
[25] EN  
**[54] CERAMIC PHASE CAPACITORS FOR RF SYSTEM IN PHOTOACTIVE GLASS SUBSTRATES**  
**[54] CONDENSATEURS DE PHASE CERAMIQUE POUR SYSTEME RF DANS DES SUBSTRATS DE VERRE PHOTOACTIFS**  
[72] FLEMMING, JEB H., US  
[72] MCWETHY, KYLE, US  
[71] 3D GLASS SOLUTIONS, INC., US  
[85] 2023-11-08  
[86] 2022-06-02 (PCT/US2022/031993)  
[87] (WO2022/256551)  
[30] US (63/197,066) 2021-06-04

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**[21] 3,218,461**  
[13] A1

[25] EN  
**[54] CONDITIONAL CELL RECONFIGURATION INITIATED BY A SECONDARY NODE**  
**[54] RECONFIGURATION DE CELLULE CONDITIONNELLE INITIEE PAR UN N?UD SECONDAIRE**  
[72] ZHANG, MENGJIE, CN  
[72] HUANG, HE, CN  
[72] LIU, JING, CN  
[71] ZTE CORPORATION, CN  
[85] 2023-11-08  
[86] 2021-08-05 (PCT/CN2021/110789)  
[87] (WO2023/010393)

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**[21] 3,218,462**  
[13] A1

- [51] Int.Cl. C07D 403/04 (2006.01)
  - [25] EN
  - [54] ACID ADDITION SALT OF ROCK INHIBITOR, AND CRYSTAL FORM, COMPOSITION AND PHARMACEUTICAL USE THEREOF
  - [54] SEL D'ADDITION D'ACIDE D'UN INHIBITEUR DE ROCK, ET FORME CRISTALLINE, COMPOSITION ET UTILISATION PHARMACEUTIQUE ASSOCIEE
  - [72] WANG, LIANG, CN
  - [72] LOU, JUN, CN
  - [72] YUAN, YI, CN
  - [72] GUO, XIAODAN, CN
  - [72] CHEN, YONGKAI, CN
  - [72] ZHANG, YIHAN, CN
  - [72] HONG, HUAYUN, CN
  - [72] PENG, WEI, CN
  - [72] WANG, CHAODONG, CN
  - [71] WUHAN LL SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD., CN
  - [85] 2023-11-08
  - [86] 2022-05-13 (PCT/CN2022/092622)
  - [87] (WO2022/237892)
  - [30] CN (202110533087.9) 2021-05-14
  - [30] CN (202210500178.7) 2022-05-07
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**[21] 3,218,463**  
[13] A1

- [51] Int.Cl. E01C 7/18 (2006.01)
- [25] EN
- [54] ASPHALT MATERIALS FROM WIND TURBINE BLADES AND OTHER COMPOSITE MATERIALS
- [54] MATERIAUX D'ASPHALTE PROVENANT DE PALES D'EOLIENNE ET AUTRES MATERIAUX COMPOSITES
- [72] ADAMS, JERAMIE JOSEPH, US
- [72] PLANCHE, JEAN-PASCAL, US
- [72] BASSHAM, SETH TAYLOR, US
- [72] LITERATI, ALEX MITCHELL, US
- [71] WESTERN RESEARCH INSTITUTE, US
- [85] 2023-11-08
- [86] 2022-07-05 (PCT/US2022/036102)
- [87] (WO2023/287607)
- [30] US (63/220,885) 2021-07-12
- [30] US (63/348,638) 2022-06-03

**[21] 3,218,464**  
[13] A1

- [51] Int.Cl. C08J 11/10 (2006.01)
  - [25] EN
  - [54] ENZYME VARIANTS AND USES THEREOF
  - [54] VARIANTS D'ENZYME ET LEURS UTILISATIONS
  - [72] SAUNDERS, JAKE WESLEY, AU
  - [72] SPENCE, MATTHEW, AU
  - [72] VONGSOUTH, VANESSA, AU
  - [72] DAMRY, ADAM MICHAEL, AU
  - [72] JACKSON, COLIN JOHN, AU
  - [71] SAMSARA ECO PTY LIMITED, AU
  - [85] 2023-11-08
  - [86] 2022-05-13 (PCT/AU2022/050455)
  - [87] (WO2022/236377)
  - [30] AU (2021901431) 2021-05-13
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**[21] 3,218,465**  
[13] A1

- [25] EN
  - [54] ULTRASONIC SPINAL SURGERY METHOD AND ASSOCIATED SURGICAL INSTRUMENT
  - [54] METHODE DE CHIRURGIE VERTEBRALE A ULTRASONS ET INSTRUMENT CHIRURGICAL ASSOCIE
  - [72] THEODORE, NICHOLAS, US
  - [72] VOIC, DAN, US
  - [72] MIKUS, PAUL, US
  - [72] BALLOR, CHRISTOPHER, US
  - [72] KLUGEWCZ, SHARON, US
  - [71] MISONIX, LLC, US
  - [85] 2023-11-08
  - [86] 2022-04-27 (PCT/US2022/026501)
  - [87] (WO2022/245499)
  - [30] US (17/327,041) 2021-05-21
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**[21] 3,218,466**  
[13] A1

- [51] Int.Cl. F03B 11/04 (2006.01) B01F 23/2326 (2022.01)
- [25] EN
- [54] AIR INJECTION DEVICE FOR HYDRAULIC TURBINE
- [54] DISPOSITIF D'INJECTION D'AIR POUR TURBINE HYDRAULIQUE
- [72] VON FELLENBERG, SVEN, CA
- [72] AFARA, SAMER, CA
- [72] DISCIULLO, JOHN, CA
- [71] ANDRITZ HYDRO CANADA INC., CA
- [85] 2023-11-08
- [86] 2022-08-05 (PCT/IB2022/057287)
- [87] (WO2023/017379)
- [30] US (17/397,527) 2021-08-09

**[21] 3,218,468**  
[13] A1

- [51] Int.Cl. C09D 7/40 (2018.01) B42D 25/30 (2014.01) B42D 25/324 (2014.01) B42D 25/328 (2014.01) B42D 25/351 (2014.01) B42D 25/36 (2014.01) B42D 25/364 (2014.01) B42D 25/378 (2014.01) B42D 25/425 (2014.01) C09D 7/61 (2018.01) C08F 222/10 (2006.01) C08K 3/08 (2006.01) C09D 151/10 (2006.01)
- [25] EN
- [54] COMPOSITIONS, COMPRISING PLATELET-SHAPED TRANSITION METAL PARTICLES
- [54] COMPOSITIONS COMPRENANT DES PARTICULES DE METAL DE TRANSITION EN FORME DE PLAQUETTES
- [72] GRIGORENKO, NIKOLAY A, CH
- [72] OSWALD, ANDRE, CH
- [72] LEYBACH, HOLGER, CH
- [72] KNISCHKA, RALF, DE
- [72] GERNANDT, ANDREAS, DE
- [71] BASF SE, DE
- [85] 2023-11-08
- [86] 2022-05-11 (PCT/EP2022/062753)
- [87] (WO2022/238468)
- [30] EP (21173520.4) 2021-05-12

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**[21] 3,218,470**  
[13] A1

[51] Int.Cl. C07D 498/04 (2006.01) A61K 31/4188 (2006.01)  
[25] EN  
[54] **POLYMORPH OF IMIDAZOLIDINONE COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF**  
[54] **POLYMORPH D'UN COMPOSE IMIDAZOLIDINONE, SON PROCEDE DE PREPARATION ET SON UTILISATION**  
[72] ZU, HOUXIAN, CN  
[72] CHEN, LIANG, CN  
[72] SONG, XIZHEN, CN  
[72] ZHAO, XINTAO, CN  
[72] CHEN, KAI, CN  
[72] LIU, XIAOYUN, CN  
[72] WANG, JIN, CN  
[72] XIA, ZHIFANG, CN  
[72] XU, YING, CN  
[72] ZHOU, YUANZHENG, CN  
[72] DING, LIEMING, CN  
[72] WANG, JIABING, CN  
[71] BETTA PHARMACEUTICALS CO., LTD., CN  
[85] 2023-11-08  
[86] 2022-05-12 (PCT/CN2022/092465)  
[87] (WO2022/237871)  
[30] CN (PCT/CN2021/093552) 2021-05-13  
[30] CN (202210506024.9) 2022-05-09

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**[21] 3,218,471**  
[13] A1

[25] EN  
[54] **POINT-OF-USE SYSTEM AND METHOD FOR IDENTIFYING COMPONENTS OF AN UNKNOWN DRUG SAMPLE**  
[54] **SYSTEME ET PROCEDE AU POINT D'UTILISATION POUR IDENTIFIER DES COMPOSANTS D'UN ECHANTILLON DE MEDICAMENT INCONNU**  
[72] HALL, DREW, US  
[72] WERB, DANIEL, CA  
[72] BERIAULT, DANIEL, CA  
[71] UNITY HEALTH TORONTO, CA  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[85] 2023-11-08  
[86] 2022-05-11 (PCT/CA2022/050737)  
[87] (WO2022/236411)  
[30] US (63/187,875) 2021-05-12

**[21] 3,218,472**  
[13] A1

[51] Int.Cl. A63B 71/14 (2006.01) A41D 31/28 (2019.01) A41D 13/08 (2006.01)  
[25] EN  
[54] **IMPACT CUSHIONING MATERIAL FOR PADDED GLOVES USED IN CONTACT SPORTS**  
[54] **MATERIAU D'AMORTISSEMENT DES CHOCS POUR DES GANTS MATELASSES UTILISES DANS DES SPORTS DE CONTACT**  
[72] CLEMENT, KEN, CA  
[72] ZIKAKIS, DAVID, CA  
[72] ADREF, ZAKARIA, CA  
[72] CLEMENT, CRAIG, CA  
[71] HAYABUSA FIGHTWEAR INC., CA  
[85] 2023-11-08  
[86] 2022-04-01 (PCT/CA2022/050505)  
[87] (WO2022/246536)  
[30] US (63/193,937) 2021-05-27

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**[21] 3,218,473**  
[13] A1

[51] Int.Cl. B60S 9/04 (2006.01)  
[25] EN  
[54] **HANDLE ASSEMBLY FOR TRAILER LANDING GEAR**  
[54] **ENSEMBLE POIGNEE POUR BEQUILLE DE REMORQUE**  
[72] LAHOUSSE, SHANE R., US  
[72] AMBROSI, JUSTIN, US  
[72] DOMANSKI, CHRISTOPHER, US  
[71] ALKON CORPORATION, US  
[85] 2023-11-08  
[86] 2021-05-21 (PCT/US2021/033614)  
[87] (WO2022/245367)

**[21] 3,218,474**  
[13] A1

[51] Int.Cl. C07D 281/10 (2006.01) A61P 1/16 (2006.01) C07D 285/36 (2006.01)  
[25] EN  
[54] **BENZOTHIA(DI)AZEPINE COMPOUNDS AND THEIR USE AS BILE ACID MODULATORS**  
[54] **COMPOSES DE BENZOTHIA(DI)AZEPINE ET LEUR UTILISATION EN TANT QUE MODULATEURS DE L'ACIDE BILIAIRE**  
[72] STARKE, INGEMAR, SE  
[72] KULKARNI, SANTOSH S., IN  
[72] GILLBERG, PER-GORAN, SE  
[71] ALBIREO AB, SE  
[85] 2023-11-08  
[86] 2022-06-03 (PCT/EP2022/065165)  
[87] (WO2022/253997)  
[30] IN (202111024711) 2021-06-03

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**[21] 3,218,475**  
[13] A1

[51] Int.Cl. C07K 14/725 (2006.01) C07K 16/28 (2006.01)  
[25] EN  
[54] **ENHANCING EFFICACY OF T-CELL-MEDIATED IMMUNOTHERAPY BY MODULATING CANCER-ASSOCIATED FIBROBLASTS IN SOLID TUMORS**  
[54] **AMELIORATION DE L'EFFICACITE D'UNE IMMUNOTHERAPIE MEDIEE PAR DES LYMPHOCYTES T PAR MODULATION DE FIBROBLASTES ASSOCIES AU CANCER DANS DES TUMEURS SOLIDES**  
[72] DAS, SHIPRA, US  
[72] VALTON, JULIEN, FR  
[72] POIROT, LAURENT, FR  
[72] DUCHATEAU, PHILIPPE, FR  
[71] CELLECTIS S.A., FR  
[85] 2023-11-08  
[86] 2022-05-23 (PCT/EP2022/063899)  
[87] (WO2022/243565)  
[30] US (63/191,699) 2021-05-21  
[30] DK (PA202170544) 2021-11-04

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[21] **3,218,477**  
[13] A1

[51] Int.Cl. H01M 4/58 (2010.01) H01M 10/0525 (2010.01) H01M 4/62 (2006.01)  
[25] EN  
[54] LITHIUM IRON PHOSPHATE POSITIVE ELECTRODE MATERIAL, PREPARATION METHOD THEREFOR, AND LITHIUM ION BATTERY  
[54] MATERIAU D'ELECTRODE POSITIVE AU PHOSPHATE DE FER-LITHIUM, SON PROCEDE DE PREPARATION ET BATTERIE AU LITHIUM-ION  
[72] XU, YUNLING, CN  
[72] XU, CHAQING, CN  
[72] CHEN, JUNYUE, CN  
[72] CAO, WENYU, CN  
[71] BYD COMPANY LIMITED, CN  
[85] 2023-11-08  
[86] 2022-05-06 (PCT/CN2022/091178)  
[87] (WO2022/237642)  
[30] CN (202110506894.1) 2021-05-10

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[21] **3,218,478**  
[13] A1

[51] Int.Cl. B65G 13/12 (2006.01) B65G 21/14 (2006.01)  
[25] EN  
[54] PRODUCT CONVEYING SYSTEM AND PRODUCT SUPPORT SYSTEM  
[54] SYSTEME DE TRANSPORT DE PRODUITS ET SYSTEME DE SOUTIEN DE PRODUITS  
[72] VESTERGAARD, MARTIN, DK  
[72] BONDE, JENS, DK  
[71] POWER STOW INTERNATIONAL APS, DK  
[85] 2023-11-08  
[86] 2022-06-03 (PCT/EP2022/065244)  
[87] (WO2022/254031)  
[30] EP (21177563.0) 2021-06-03

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[21] **3,218,479**  
[13] A1

[51] Int.Cl. C07D 471/04 (2006.01) C07D 487/04 (2006.01)  
[25] EN  
[54] SUBSTITUTED PHENYL-1H-PYRROLO[2, 3-C]PYRIDINE DERIVATIVES  
[54] DERIVES DE PHENYL-1H-PYRROLO [2, 3-C] PYRIDINE SUBSTITUES  
[72] CAI, WEI, CN  
[72] THURING, JOHANNES WILHELMUS J., BE  
[72] HULPIA, FABIAN, BE  
[72] DAI, XUEDONG, CN  
[72] LI, MING, CN  
[72] DENG, XIANGJUN, CN  
[72] LIANG, CHAO, CN  
[72] NG, ALICIA TEE FUAY, CN  
[72] SUN, ZHEN, CN  
[72] ZHANG, ZHIGAO, CN  
[72] DEMIN, SAMUEL DOMINIQUE, BE  
[72] DYUBANKOVA, NATALIA NIKOLAEVNA, BE  
[72] JOUFFROY, MATTHIEU DOMINIQUE, BE  
[72] LEPRI, SUSAN, BE  
[72] DARVILLE, NICOLAS FREDDY JACQUES BRUNO, BE  
[72] PANDE, VINEET, BE  
[72] SCHEPENS, WIM BERT GRIET, BE  
[72] EDWARDS, JAMES PATRICK, US  
[72] QUEROLLE, OLIVIER ALEXIS GEORGES, FR  
[71] JANSEN PHARMACEUTICA NV, BE  
[85] 2023-11-08  
[86] 2022-05-30 (PCT/CN2022/095901)  
[87] (WO2022/253167)  
[30] CN (PCT/CN2021/097679) 2021-06-01  
[30] CN (PCT/CN2022/085680) 2022-04-08

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[21] **3,218,480**  
[13] A1

[51] Int.Cl. B22F 3/16 (2006.01) C22C 29/08 (2006.01)  
[25] EN  
[54] CEMENTED CARBIDE INSERT WITH ETA-PHASE CORE  
[54] INSERT EN CARBURE CEMENTÉ AVEC NOYAU A PHASE ETA  
[72] ARVANITIDIS, IOANNIS, SE  
[72] LILJA, MIRJAM, SE  
[71] SANDVIK MINING AND CONSTRUCTION TOOLS AB, SE  
[85] 2023-11-08  
[86] 2022-06-14 (PCT/EP2022/066236)  
[87] (WO2022/263477)  
[30] EP (21179812.9) 2021-06-16

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[21] **3,218,481**  
[13] A1

[51] Int.Cl. C07K 16/24 (2006.01)  
[25] EN  
[54] ANTI-IL-9 ANTIBODIES AND METHODS OF USE THEREOF  
[54] ANTICORPS ANTI-IL-9 ET LEURS PROCEDES D'UTILISATION  
[72] BLANCHETOT, CHRISTOPHE, BE  
[72] GODAR, MARIE, BE  
[71] ARGENX BV, BE  
[85] 2023-11-08  
[86] 2022-06-13 (PCT/EP2022/065989)  
[87] (WO2022/263357)  
[30] US (63/202,494) 2021-06-14

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[21] **3,218,482**  
[13] A1

[51] Int.Cl. A61C 1/14 (2006.01)  
[25] EN  
[54] ERGONOMIC INSTRUMENT HANDLING SYSTEM  
[54] SYSTEME ERGONOMIQUE DE MANIPULATION D'INSTRUMENTS  
[72] DEL SOL, TAMMY, US  
[71] DEL SOL DESIGNS, LLC, US  
[85] 2023-11-08  
[86] 2022-05-12 (PCT/US2022/029019)  
[87] (WO2022/241133)  
[30] US (63/187,717) 2021-05-12

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[21] **3,218,483**  
[13] A1

[51] Int.Cl. H04B 7/06 (2006.01) H04W 52/02 (2009.01)  
[25] EN  
[54] BEAM RELATED TRACKING REFERENCE SIGNAL AVAILABILITY SIGNALING  
[54] SIGNALISATION DE LA DISPONIBILITE D'UN SIGNAL DE REFERENCE DE SUIVI ASSOCIE A UN FAISCEAU  
[72] NIMBALKER, AJIT, US  
[72] NORI, RAVIKIRAN, US  
[72] MALEKI, SINA (DECEASED), XX  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2023-11-08  
[86] 2022-05-11 (PCT/SE2022/050462)  
[87] (WO2022/240347)  
[30] US (63/186,926) 2021-05-11

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**[21] 3,218,484**  
[13] A1

- [51] Int.Cl. C01F 11/18 (2006.01) C01F 5/24 (2006.01)  
[25] EN  
[54] PROCESSES PRODUCING ALKALI HYDROXIDES, ALKALI CARBONATES, ALKALI BICARBONATES, AND/OR ALKALINE EARTH SULFATES  
[54] PROCEDES DE PRODUCTION D'HYDROXYDES ALCALINS, DE CARBONATES ALCALINS, DE BICARBONATES ALCALINS ET/OU DE SULFATES ALCALINO-TERREUX  
[72] NOVEK, ETHAN J., US  
[71] INNOVATOR ENERGY LLC, US  
[85] 2023-11-08  
[86] 2022-05-13 (PCT/US2022/029198)  
[87] (WO2022/241219)  
[30] US (63/188,275) 2021-05-13  
[30] US (17/590,483) 2022-02-01  
[30] US (17/732,808) 2022-04-29
- 

**[21] 3,218,485**  
[13] A1

- [51] Int.Cl. A61G 1/02 (2006.01) A61G 7/012 (2006.01) A61G 7/018 (2006.01) A61G 7/08 (2006.01)  
[25] EN  
[54] PATIENT TRANSPORT APPARATUS WITH ASYMMETRIC THROTTLE ASSEMBLY  
[54] APPAREIL DE TRANSPORT DE PATIENTS AVEC DISPOSITIF D'ETRANGLEMENT ASYMETRIQUE  
[72] PAUL, ANISH, US  
[72] DERENNE, RICHARD A., US  
[72] ETHEN, TYLER, US  
[71] STRYKER CORPORATION, US  
[85] 2023-11-08  
[86] 2021-05-27 (PCT/US2021/034631)  
[87] (WO2022/250677)
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**[21] 3,218,486**  
[13] A1

- [51] Int.Cl. B60M 1/12 (2006.01)  
[25] EN  
[54] OVERHEAD LINE SYSTEM WITH A SKEWED PARALLEL ZONE  
[54] SYSTEME CATENAIRE A CHAMP PARALLELE INCLINE  
[72] HAHN, GUNTER, DE  
[71] SIEMENS MOBILITY GMBH, DE  
[85] 2023-11-08  
[86] 2022-03-31 (PCT/EP2022/058657)  
[87] (WO2022/268374)  
[30] DE (10 2021 206 407.8) 2021-06-22
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**[21] 3,218,492**  
[13] A1

- [51] Int.Cl. F16B 37/12 (2006.01)  
[25] EN  
[54] ATTACHMENT OF A WEAR MEMBER  
[54] FIXATION D'UN ELEMENT D'USURE  
[72] YECK, WAI HOONG, MY  
[72] DENNIS, NEIL, AU  
[71] TALON ENGINEERING SDN BHD, MY  
[85] 2023-11-08  
[86] 2022-06-01 (PCT/AU2022/050537)  
[87] (WO2022/251914)  
[30] AU (2021901661) 2021-06-04
- 

**[21] 3,218,493**  
[13] A1

- [25] EN  
[54] ATTACHMENT OF A LIP SHROUD  
[54] FIXATION D'UN CARENAGE DE MACHOIRE  
[72] YECK, WAI HOONG, MY  
[72] DENNIS, NEIL, AU  
[71] TALON ENGINEERING SDN BHD, MY  
[85] 2023-11-08  
[86] 2022-06-01 (PCT/AU2022/050538)  
[87] (WO2022/251915)  
[30] AU (2021901662) 2021-06-04
- 

**[21] 3,218,495**  
[13] A1

- [51] Int.Cl. E01B 11/02 (2006.01)  
[25] EN  
[54] EXPANSION JOINT FOR CONNECTING A FIRST REGION AND A SECOND REGION OF A RAIL SYSTEM  
[54] JOINT DE DILATATION POUR RELIER UNE PREMIERE REGION ET UNE DEUXIEME REGION D'UN SYSTEME DE RAILS  
[72] AUSTRHEIM, TROND, NO  
[72] BEKKEN, BORGE, NO  
[72] FITJE, MARTIN, NO  
[71] AUTOSTORE TECHNOLOGY AS, NO  
[85] 2023-11-09  
[86] 2022-05-19 (PCT/EP2022/063580)  
[87] (WO2022/248333)  
[30] NO (20210674) 2021-05-27

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<p>[21] <b>3,218,496</b> [13] A1</p> <p>[25] EN [54] <b>DOWNHOLE MILLABLE PERMANENT PLUG AND METHOD FOR SETTING A DOWNHOLE MILLABLE PERMANENT PLUG</b> [54] <b>BOUCHON PERMANENT POUVANT ETRE FRAISE EN FOND DE TROU ET PROCEDE DE REGLAGE D'UN BOUCHON PERMANENT POUVANT ETRE FRAISE EN FOND DE TROU</b> [72] HIORTH, ESPEN, NO [71] INTERWELL NORWAY AS, NO [85] 2023-11-09 [86] 2022-06-02 (PCT/EP2022/065056) [87] (WO2022/268473) [30] NO (20210807) 2021-06-25</p>
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**[21] 3,218,497**  
[13] A1

<p>[51] <b>Int.Cl. E21B 17/10 (2006.01)</b> [25] EN [54] <b>DOWNHOLE WELL TOOL AND METHOD FOR PERMANENTLY SEALING A DOWNHOLE WELL</b> [54] <b>OUTIL DE PUITS DE FOND DE TROU ET PROCEDE POUR SCELLER DE MANIERE PERMANENTE D'UN PUITS DE FOND DE TROU</b> [72] HIORTH, ESPEN, NO [71] INTERWELL NORWAY AS, NO [85] 2023-11-09 [86] 2022-06-02 (PCT/EP2022/065057) [87] (WO2022/268474) [30] NO (20210826) 2021-06-25</p>
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<p>[21] <b>3,218,498</b> [13] A1</p> <p>[51] <b>Int.Cl. H04W 48/18 (2009.01) H04W 48/16 (2009.01) H04W 76/10 (2018.01)</b> [25] EN [54] <b>ACCESS NETWORK SELECTION POLICY WITH NETWORK SLICE SELECTION ASSISTANCE INFORMATION</b> [54] <b>POLITIQUE DE SELECTION DE RESEAU D'ACCES AVEC INFORMATIONS D'ASSISTANCE DE SELECTION DE TRANCHES DE RESEAU</b> [72] ATARIUS, ROOZBEH, US [72] SALKINTZIS, APOSTOLIS, GR [72] KARAMPATSI, DIMITRIOS, GB [71] LENOVO (SINGAPORE) PTE. LTD., SG [85] 2023-11-09 [86] 2021-07-26 (PCT/EP2021/070827) [87] (WO2022/258205) [30] GR (20210100376) 2021-06-08</p>
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<p>[21] <b>3,218,499</b> [13] A1</p> <p>[51] <b>Int.Cl. F16B 25/00 (2006.01) F16B 25/10 (2006.01)</b> [25] EN [54] <b>CONCRETE FASTENER</b> [54] <b>ELEMENT DE FIXATION EN BETON</b> [72] HOUCK, JOEL, US [71] SIMPSON STRONG-TIE COMPANY INC., US [85] 2023-10-26 [86] 2022-04-20 (PCT/US2022/025603) [87] (WO2022/231920) [30] US (17/246,247) 2021-04-30</p>
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<p>[21] <b>3,218,501</b> [13] A1</p> <p>[51] <b>Int.Cl. A01G 7/00 (2006.01) G06Q 10/04 (2023.01) G06N 20/00 (2019.01) G06N 3/02 (2006.01)</b> [25] EN [54] <b>AUTONOMOUS GREENHOUSE CONTROL SYSTEM</b> [54] <b>SYSTEME AUTONOME DE COMMANDE DE SERRE</b> [72] CALL, CASEY BENNET, US [72] GROSZYK, ERIK DADULO, US [72] LEE, GILWOO, US [71] ZORDI, INC., US [85] 2023-10-26 [86] 2022-04-26 (PCT/US2022/071929) [87] (WO2022/232783) [30] US (63/180,610) 2021-04-27</p>
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<p>[21] <b>3,218,502</b> [13] A1</p> <p>[51] <b>Int.Cl. A01N 43/22 (2006.01) A01N 25/02 (2006.01) A01N 25/04 (2006.01) A01P 7/04 (2006.01)</b> [25] EN [54] <b>IMPROVED SPINOSYN PESTICIDAL COMPOSITIONS</b> [54] <b>COMPOSITIONS PESTICIDES DE SPINOSYNE</b> [72] LI, HANGSHENG, CA [72] LIN, STEVEN, CA [71] TERRAMERA, INC., CA [85] 2023-10-30 [86] 2022-05-03 (PCT/CA2022/050685) [87] (WO2022/232921) [30] US (63/183,942) 2021-05-04</p>
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<p>[21] <b>3,218,503</b> [13] A1</p> <p>[51] <b>Int.Cl. A61M 31/00 (2006.01) A61B 1/00 (2006.01) A61M 25/00 (2006.01)</b> [25] EN [54] <b>MULTI-LUMEN CATHETERS</b> [54] <b>CATHETERS A LUMIERES MULTIPLES</b> [72] PIC, ANDREW, US [72] FREDRICKSON, GERALD, US [72] CONGDON, DANIEL, US [71] BOSTON SCIENTIFIC SCIMED, INC., US [85] 2023-10-30 [86] 2022-05-03 (PCT/US2022/072077) [87] (WO2022/236263) [30] US (63/183,738) 2021-05-04</p>
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<p>[21] <b>3,218,504</b> [13] A1</p> <p>[51] <b>Int.Cl. B26B 21/58 (2006.01)</b> [25] EN [54] <b>METALS FOR RAZOR BLADE APPLICATIONS</b> [54] <b>METAUX POUR DES APPLICATIONS DE LAMES DE RASOIR</b> [72] XU, MING LAURA, US [71] THE GILLETTE COMPANY LLC, US [85] 2023-10-30 [86] 2022-05-02 (PCT/US2022/072037) [87] (WO2022/236242) [30] US (17/306,685) 2021-05-03</p>
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**[21] 3,218,505**

[13] A1

- [51] Int.Cl. B01J 16/00 (2006.01) B01J 19/00 (2006.01) B01J 19/18 (2006.01)
  - [25] EN
  - [54] METHODS AND COMPOSITIONS FOR LARGE-SCALE CONJUGATABLE POLYMER AND PROTEIN SYNTHESIS
  - [54] PROCEDES ET COMPOSITIONS POUR LA SYNTHESE DE POLYMERES ET DE PROTEINES POUVANT ETRE CONJUGUES A GRANDE ECHELLE
  - [72] WATSON, ANDRE, US
  - [71] LIGANDAL, INC., US
  - [85] 2023-10-30
  - [86] 2022-04-29 (PCT/US2022/072027)
  - [87] (WO2022/232846)
  - [30] US (63/182,176) 2021-04-30
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**[21] 3,218,506**

[13] A1

- [51] Int.Cl. B65D 3/06 (2006.01) B31B 50/74 (2017.01) B65D 3/14 (2006.01) B65D 3/28 (2006.01)
  - [25] EN
  - [54] CONTAINER FOR LIQUIDS
  - [54] CONTENANT POUR LIQUIDES
  - [72] SLOAT, JEFFREY T., US
  - [71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US
  - [85] 2023-10-30
  - [86] 2022-05-26 (PCT/US2022/031014)
  - [87] (WO2022/251414)
  - [30] US (63/194,420) 2021-05-28
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**[21] 3,218,507**

[13] A1

- [51] Int.Cl. B31B 50/74 (2017.01)
- [25] EN
- [54] METHOD AND SYSTEM FOR FORMING A PACKAGING MATERIAL
- [54] PROCEDE ET SYSTEME DE FORMATION D'UN MATERIAU D'EMBALLAGE
- [72] SLOAT, JEFFREY T., US
- [72] CROOKS, COREY DESMOND, US
- [71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US
- [85] 2023-10-30
- [86] 2022-05-26 (PCT/US2022/031009)
- [87] (WO2022/251411)
- [30] US (63/194,418) 2021-05-28

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**[21] 3,218,508**

[13] A1

- [51] Int.Cl. A61B 34/00 (2016.01) A61B 90/00 (2016.01) A61B 17/00 (2006.01)
  - [25] EN
  - [54] ENDOSCOPE IMAGING SYSTEM
  - [54] SYSTEME D'IMAGERIE ENDOSCOPIQUE
  - [72] MANNION, PAUL THOMAS, US
  - [72] FOGARTY, PADraig, IE
  - [72] GARVEY, TONY, IE
  - [71] C.R. BARD, INC., US
  - [85] 2023-10-30
  - [86] 2022-05-16 (PCT/US2022/029425)
  - [87] (WO2022/250996)
  - [30] US (63/192,742) 2021-05-25
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**[21] 3,218,509**

[13] A1

- [51] Int.Cl. A61M 25/00 (2006.01) A61B 50/30 (2016.01) A61B 50/33 (2016.01)
  - [25] EN
  - [54] URINARY CATHETER-INSERTION KITS WITH INTEGRATED INSTRUCTIONS FOR USE AND METHODS THEREOF
  - [54] KITS D'INSERTION DE CATHETER URINAIRE A MODE D'EMPLOI INTEGRE ET PROCEDES ASSOCIES
  - [72] CHAPMAN, BRIAN, US
  - [71] C.R. BARD, INC., US
  - [85] 2023-10-30
  - [86] 2022-05-16 (PCT/US2022/029394)
  - [87] (WO2022/250994)
  - [30] US (63/193,440) 2021-05-26
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**[21] 3,218,510**

[13] A1

- [51] Int.Cl. A61P 25/16 (2006.01) C07D 417/14 (2006.01)
- [25] EN
- [54] SMALL MOLECULE MODULATORS OF GLUCOCEREBROSIDASE ACTIVITY AND USES THEREOF
- [54] MODULATEURS A PETITES MOLECULES DE L'ACTIVITE GLUCOCEREBROSIDASE ET LEURS UTILISATIONS
- [72] HUNT, KEVIN, US
- [72] ZHENG, JIANBIN, US
- [71] VANQUA BIO, INC., US
- [85] 2023-10-30
- [86] 2022-04-28 (PCT/US2022/026676)
- [87] (WO2022/232360)
- [30] US (63/182,734) 2021-04-30

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**[21] 3,218,511**

[13] A1

- [25] EN
  - [54] METHODS FOR DELIVERING GENOME EDITING MOLECULES TO THE NUCLEUS OR CYTOSOL OF A CELL AND USES THEREOF
  - [54] METHODES POUR ADMINISTRER DES MOLECULES D'EDITION GENOMIQUE AU NOYAU OU AU CYTOSOL D'UNE CELLULE ET LEURS UTILISATIONS
  - [72] SIKORA HANSON, JACQUELYN L., US
  - [72] TADIN-STRAPPS, MARIJA, US
  - [71] SQZ BIOTECHNOLOGIES COMPANY, US
  - [85] 2023-11-09
  - [86] 2022-05-10 (PCT/US2022/028546)
  - [87] (WO2022/240846)
  - [30] US (63/186,651) 2021-05-10
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**[21] 3,218,512**

[13] A1

- [51] Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 31/4745 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)
- [25] EN
- [54] ANTI-NECTIN-4 ANTIBODY AND ANTI-NECTIN-4 ANTIBODY-DRUG CONJUGATE, AND MEDICINAL USER THEREOF
- [54] ANTICORPS ANTI-NECTINE-4 ET CONJUGUE ANTICORPS ANTI-NECTINE-4-MEDICAMENT ET UTILISATEUR MEDICINAL DE CEUX-CI
- [72] YANG, YANG, CN
- [72] ZHANG, HAOYING, CN
- [72] TAO, WEIKANG, CN
- [71] JIANGSU HENGRI PHARMACEUTICALS CO., LTD., CN
- [71] SHANGHAI HENGRI PHARMACEUTICAL CO., LTD., CN
- [85] 2023-10-30
- [86] 2022-04-26 (PCT/CN2022/089129)
- [87] (WO2022/228406)
- [30] CN (202110455570.X) 2021-04-26

## Demandes PCT entrant en phase nationale

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[21] 3,218,515

[13] A1

[51] Int.Cl. C12N 15/29 (2006.01) A01H  
5/00 (2018.01) C12N 15/82 (2006.01)

[25] EN

[54] METHOD FOR GENERATING  
NEW GENE IN ORGANISM AND  
USE THEREOF

[54] PROCEDE POUR GENERER UN  
NOUVEAU GENE DANS UN  
ORGANISME ET SON  
UTILISATION

[72] JIANG, LINJIAN, CN

[72] WANG, JIYAO, CN

[72] MO, SUDONG, CN

[72] CHEN, BO, CN

[72] HU, QIANG, CN

[72] DING, DEHUI, CN

[72] LI, HUARONG, CN

[71] QINGDAO KINGAGROOT  
CHEMICAL COMPOUND CO., LTD.,  
CN

[85] 2023-10-30

[86] 2022-04-29 (PCT/CN2022/090268)

[87] (WO2022/233271)

[30] CN (202110486840.3) 2021-05-02

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[21] 3,218,516

[13] A1

[51] Int.Cl. A61B 5/00 (2006.01) H04W  
56/00 (2009.01) A61B 5/372 (2021.01)  
A61B 5/375 (2021.01) A61B 5/377  
(2021.01) A61B 5/378 (2021.01) A61B  
5/38 (2021.01)

[25] EN

[54] TECHNIQUE FOR OBTAINING  
AND PROCESSING A  
MEASUREMENT OF A  
BIOSIGNAL

[54] TECHNIQUE D'OBENTION ET  
DE TRAITEMENT D'UNE  
MESURE D'UN BIOSIGNAL

[72] MURPHY, BRIAN, IE

[72] TREMBLAY, YANNICK, GB

[72] NOLAN, HUGH, IE

[72] SHAW, MATTHEW, GB

[71] CUMULUS NEUROSCIENCE LTD,  
GB

[85] 2023-10-30

[86] 2021-04-28 (PCT/EP2021/061155)

[87] (WO2022/228668)

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[21] 3,218,517

[13] A1

[51] Int.Cl. B65D 77/20 (2006.01) B65D  
65/40 (2006.01)

[25] EN

[54] MONO POLYESTER MATERIAL  
PACKAGE

[54] EMBALLAGE EN  
MONOPOLYESTER

[72] BERTHOLD, ANTON, SE

[71] GPI FLEXIBLES AB, SE

[85] 2023-10-30

[86] 2022-05-17 (PCT/EP2022/063244)

[87] (WO2022/253563)

[30] SE (2150692-8) 2021-05-31

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[21] 3,218,518

[13] A1

[51] Int.Cl. G02B 21/33 (2006.01)

[25] EN

[54] MICROSCOPY SYSTEM AND  
METHOD USING AN IMMERSION  
LIQUID

[54] SYSTEME ET PROCEDE DE  
MICROSCOPIE FAISANT APPEL  
A UN LIQUIDE D'IMMERSION

[72] TURGEMAN, SHLOMO, IL

[72] SHEFFER, EITAN, IL

[72] PARAN, YAEL, IL

[72] WEITZHANDLER, SHIMON, IL

[72] SCHWARTZ, EPHRAIM, IL

[72] ATZEI-PRI, ALON, IL

[71] IDEA MACHINE DEVELOPMENT  
DESIGN & PRODUCTION LTD., IL

[85] 2023-10-30

[86] 2022-04-28 (PCT/IB2022/053972)

[87] (WO2022/229906)

[30] US (63/180,693) 2021-04-28

[30] US (63/180,694) 2021-04-28

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[21] 3,218,519

[13] A1

[51] Int.Cl. A61K 35/745 (2015.01) A61K  
35/747 (2015.01) A61P 3/00 (2006.01)  
A61P 3/04 (2006.01) A61P 3/06  
(2006.01) A61P 3/10 (2006.01)

[25] EN

[54] PROBIOTIC COMPOSITIONS  
USEFUL IN THE PREVENTION  
AND/OR TREATMENT OF  
METABOLIC SYNDROME AND  
RELATED DISORDERS

[54] COMPOSITIONS PROBIOTIQUES  
UTILES DANS LA PREVENTION  
ET/OU LE TRAITEMENT DU  
SYNDROME METABOLIQUE ET  
DE TROUBLES ASSOCIES

[72] MALANCHIN, ROSELLA, IT

[72] PIANGIOLINO, CRISTIANA, IT

[72] CASTEGNARO, SILVIA, IT

[72] CARLOMAGNO, FEDERICA, IT

[72] PESCIAROLI, CHIARA, IT

[71] SYNBALANCE SRL, IT

[85] 2023-10-30

[86] 2022-05-09 (PCT/IB2022/054273)

[87] (WO2022/234548)

[30] IT (102021000011774) 2021-05-07

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[21] 3,218,521

[13] A1

[51] Int.Cl. A01K 29/00 (2006.01)

[25] EN

[54] CAMERA DEVICE FOR  
MONITORING AND  
RECOGNISING ANIMALS OR  
PORTIONS THEREOF, AND  
ASSOCIATED LIVESTOCK SHED

[54] DISPOSITIF DE CAMERA  
DESTINE A LA SURVEILLANCE  
ET A LA RECONNAISSANCE  
D'ANIMAUX OU DE PARTIES DE  
CEUX-CI, ET HANGAR A BETAILE  
ASSOCIE

[72] BOES, PIET, NL

[71] LELY PATENT N.V., NL

[85] 2023-10-30

[86] 2022-05-17 (PCT/IB2022/054569)

[87] (WO2022/243863)

[30] NL (2028234) 2021-05-18

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**[21] 3,218,522**  
[13] A1

- [51] Int.Cl. H01F 41/02 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) H01F 7/02 (2006.01) H02K 1/02 (2006.01) H02K 1/27 (2022.01)
  - [25] EN
  - [54] PERMANENT MAGNETS WITH INTEGRATED PHASE CHANGE MATERIALS
  - [54] AIMANTS PERMANENTS A MATERIAUX A CHANGEMENT DE PHASE INTEGRES
  - [72] BERNIER, FABRICE, CA
  - [72] LAMARRE, JEAN-MICHEL, CA
  - [72] IBRAHIM, MAGED, EG
  - [72] PELLETIER, ROGER, CA
  - [71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
  - [85] 2023-10-30
  - [86] 2022-05-20 (PCT/IB2022/054752)
  - [87] (WO2022/243974)
  - [30] US (63/190,871) 2021-05-20
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**[21] 3,218,525**  
[13] A1

- [51] Int.Cl. H04M 3/00 (2006.01) H04L 12/66 (2006.01) H04Q 3/58 (2006.01)
- [25] EN
- [54] EXCHANGE, TELEPHONE EXCHANGE METHOD, AND COMPUTER-READABLE MEDIUM
- [54] SYSTEME DE COMMUTATION, PROCEDE DE COMMUTATION DE TELEPHONE ET SUPPORT LISIBLE PAR ORDINATEUR
- [72] ESHIRO, HIDETOSHI, JP
- [72] EBIHARA, HIROYUKI, JP
- [72] OHNO, TOMOHIRO, JP
- [71] NEC PLATFORMS, LTD., JP
- [85] 2023-10-30
- [86] 2022-01-24 (PCT/JP2022/002467)
- [87] (WO2023/281780)
- [30] JP (2021-113589) 2021-07-08

**[21] 3,218,526**  
[13] A1

- [25] EN
  - [54] AUTOMATIC BEVERAGE VENDING MACHINE
  - [54] DISTRIBUTEUR AUTOMATIQUE DE BOISSONS
  - [72] BRUZZESE, FABIO, IT
  - [72] MAGGIONI, CLAUDIO, IT
  - [72] RIVA, ROBERTO, IT
  - [72] PIATTI, GIANLUCA, IT
  - [72] MOLINATI, CARLO MORENO, IT
  - [72] BELTRAME, CLAUDIO, IT
  - [71] RHEAVENDORS INDUSTRIES S.P.A., IT
  - [85] 2023-11-09
  - [86] 2022-05-10 (PCT/IB2022/054319)
  - [87] (WO2022/238883)
  - [30] IT (102021000011930) 2021-05-10
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**[21] 3,218,527**  
[13] A1

- [51] Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)
- [25] EN
- [54] ANTIBODY DRUG CONJUGATE, AND PREPARATION METHOD THEREFOR AND USE THEREOF
- [54] CONJUGUE ANTICORPS-MEDICAMENT, SA METHODE DE PREPARATION ET UTILISATION ASSOCIEE
- [72] TIAN, HAIJUN, US
- [72] TIAN, QIANG, CN
- [72] YUAN, XIAOXI, CN
- [72] CHANG, YING-HUA, US
- [72] LI, DELIANG, CN
- [72] HU, JIANGJIANG, CN
- [72] ZHANG, YITAO, CN
- [72] WANG, XIAOBEI, CN
- [72] ZHENG, YONG, CN
- [72] YE, JIAN, CN
- [72] WANG, BO, CN
- [72] MIAO, YU, CN
- [72] KANG, BINGQIANG, CN
- [72] LI, FEN, CN
- [72] TANG, ZUJIAN, CN
- [72] DENG, HANWEN, CN
- [72] SONG, HONGMEI, CN
- [72] GE, JUNYOU, CN
- [72] WANG, JINGYI, CN
- [71] SICHUAN KELUN-BIOTECH BIOPHARMACEUTICAL CO., LTD., CN
- [71] KLUS PHARMA INC., US
- [85] 2023-10-31
- [86] 2022-05-23 (PCT/CN2022/094559)
- [87] (WO2022/253035)
- [30] CN (202110615214.X) 2021-06-02
- [30] CN (202110941134.3) 2021-08-16

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- [51] Int.Cl. C12N 5/0783 (2010.01) C12M 1/00 (2006.01)
  - [25] EN
  - [54] METHOD FOR PRODUCING TUMOR-INFILTRATING T-LYMPHOCYTES (TIL) AND THEIR USE AS CELLULAR THERAPEUTICS FOR THE TREATMENT OF HUMAN TUMORS
  - [54] PROCEDE DE PRODUCTION DE LYMPHOCYTES T INFILTRANT LES TUMEURS (TIL) ET LEUR UTILISATION COMME AGENTS THERAPEUTIQUES CELLULAIRES POUR LE TRAITEMENT DE TUMEURS HUMAINES
  - [72] HOFFMEISTER, HANS, DE
  - [72] JAGER, ELKE, DE
  - [72] KARBACH, JULIA, DE
  - [72] SINELNIKOV, EVGENI, DE
  - [72] GUSTAVUS, DIRK, DE
  - [71] ZELLWERK GMBH, DE
  - [85] 2023-10-31
  - [86] 2021-12-08 (PCT/DE2021/000194)
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- [25] EN
- [54] ASSEMBLY OF WELDED WIRE MESH PANEL AND FRAME
- [54] ENSEMBLE CONSTITUE D'UN PANNEAU A TREILLIS METALLIQUE SOUDE ET D'UN CADRE
- [72] CHIARI COSTA, GELMO, BR
- [72] RODRIGUES JARDIM, DANIEL, BR
- [71] BELGO BEKAERT ARAMES LTDA, BR
- [71] NV BEKAERT SA, BE
- [85] 2023-06-27
- [86] 2021-12-15 (PCT/BR2021/050554)
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- [30] BR (BR 10 2020 026775 2) 2020-12-28

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  - [25] EN
  - [54] DECARBONATION PROCESS OF CARBONATED MATERIALS IN A MULTI-SHAFT VERTICAL KILN
  - [54] PROCEDE DE DECARBONATATION DE MATERIAUX CARBONATES DANS UN FOUR VERTICAL A PLUSIEURS CUVES
  - [72] THIBEAUMONT, ETIENNE, BE
  - [72] AUBERT, ALEX, BE
  - [72] CAMBIER, PIERRE-OLIVIER, BE
  - [72] ROBIN, CHARLES, BE
  - [71] TECFORLIME, BE
  - [85] 2023-10-31
  - [86] 2022-05-10 (PCT/EP2022/062606)
  - [87] (WO2022/238385)
  - [30] EP (21173260.7) 2021-05-11
  - [30] EP (21173263.1) 2021-05-11
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- [25] EN
- [54] SYSTEMS AND METHODS FOR END-TO-END VERIFICATION OF MANUFACTURING WORKFLOWS
- [54] SYSTEMES ET PROCEDES DE VERIFICATION DE BOUT EN BOUT DE FLUX DE TRAVAIL DE FABRICATION
- [72] PEREZ, JUAN CARLOS FLORES, US
- [72] GLADKIKH, MIKHAIL, US
- [71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
- [85] 2023-11-09
- [86] 2022-05-12 (PCT/US2022/072292)
- [87] (WO2022/241458)
- [30] US (63/188,955) 2021-05-14
- [30] US (17/454,309) 2021-11-10

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  - [25] EN
  - [54] VACCINATION AGAINST BACTERIAL AND BETACORONAVIRUS INFECTIONS
  - [54] VACCINATION CONTRE DES INFECTIONS BACTERIENNES ET A BETACORONAVIRUS
  - [72] ANDERSON, ANNALIESA SYBIL, US
  - [72] CANE, ALEJANDRO DAVID, US
  - [72] GRUBER, WILLIAM CARL, US
  - [72] JANSEN, KATHRIN UTE, US
  - [72] JODAR MARTIN-MONTALVO, LUIS PASCUAL, US
  - [72] LOCKHART, STEPHEN PAUL, GB
  - [72] SCOTT, DANIEL ALFRED, US
  - [72] WATSON, WENDY JO, US
  - [72] YACISIN, KARI ANN, US
  - [71] PFIZER INC., US
  - [85] 2023-10-31
  - [86] 2022-04-28 (PCT/IB2022/053951)
  - [87] (WO2022/234405)
  - [30] US (63/183,254) 2021-05-03
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- [25] EN
- [54] DOSING REGIMENS
- [54] SCHEMAS POSOLOGIQUES
- [72] DODD, STEPHANIE KAY, US
- [72] HOURCADE-POTELLERET, FLORENCE, CH
- [72] HUTH, FELIX, CH
- [72] QUINLAN, MICHELLE, US
- [72] ZACK, JULIA, US
- [71] NOVARTIS AG, CH
- [85] 2023-10-31
- [86] 2022-05-10 (PCT/IB2022/054321)
- [87] (WO2022/238884)
- [30] US (63/187,023) 2021-05-11

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  - [25] EN
  - [54] FORMING SYSTEM, ELECTRIC HEATING SYSTEM, ELECTRODE, FORMING DEVICE, AND SUPPORT DEVICE
  - [54] SYSTEME DE FORMAGE, SYSTEME DE CHAUFFAGE ELECTRIQUE, ELECTRODE, DISPOSITIF DE FORMAGE ET DISPOSITIF DE SUPPORT
  - [72] ITAGAKI, NOBORU, JP
  - [72] YAMAUCHI, KEI, JP
  - [72] KOUKAMI, KIYOMASA, JP
  - [71] SUMITOMO HEAVY INDUSTRIES, LTD., JP
  - [85] 2023-10-31
  - [86] 2022-06-08 (PCT/JP2022/023181)
  - [87] (WO2022/260100)
  - [30] JP (2021-096621) 2021-06-09
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- [51] Int.Cl. A42B 3/06 (2006.01) A42B 3/12 (2006.01)
- [25] EN
- [54] HARD HAT WITH IMPACT PERFORMANCE MATERIALS
- [54] CASQUE DE SECURITE AYANT DES MATERIAUX A PERFORMANCE D'IMPACT
- [72] WORPLE, JOSEPH R., US
- [71] MILWAUKEE ELECTRIC TOOL CORPORATION, US
- [85] 2023-11-09
- [86] 2022-06-17 (PCT/US2022/034039)
- [87] (WO2022/266471)
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[25] EN  
[54] SOTORASIB DOSING REGIMEN  
[54] REGIME POSOLOGIQUE DE SOTORASIB  
[72] HENARY, HABY, US  
[72] NGARMCHAMNANRITH, GATAREE, US  
[72] PARK, JOSEPH, US  
[72] DUTTA, SANDEEP, US  
[72] FRIBERG, GREGORY, US  
[72] HOUK, BRETT E., US  
[72] MATHER, OMAR, US  
[71] AMGEN INC., US  
[85] 2023-10-31  
[86] 2022-05-17 (PCT/US2022/029677)  
[87] (WO2022/245857)  
[30] US (63/190,061) 2021-05-18

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[25] EN  
[54] ANTI-CANCER NUCLEAR HORMONE RECEPTOR-TARGETING COMPOUNDS  
[54] COMPOSES CIBLANT DES RECEPTEURS HORMONIAUX NUCLEAIRES ANTICANCEREUX  
[72] HUNG, DAVID, US  
[72] KANKANALA, JAYAKANTH, US  
[72] MILLER, CHRISTOPHER PAUL, US  
[72] PETTIGREW, JEREMY DAVID, US  
[72] PHAM, SON MINH, US  
[72] DARWISH, LHAB S., US  
[71] NUVENTURE BIO INC., US  
[85] 2023-10-31  
[86] 2022-05-02 (PCT/US2022/027334)  
[87] (WO2022/235585)  
[30] US (63/183,569) 2021-05-03

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[25] EN  
[54] SUBSTITUTED HETEROCYCLIC COMPOUNDS  
[54] COMPOSES HETEROCYCLIQUES SUBSTITUES  
[72] SPERGEL, STEVEN H., US  
[72] MOSLIN, RYAN M., US  
[72] MERTZMAN, MICHAEL EDWARD, US  
[71] BRISTOL-MYERS SQUIBB COMPANY, US  
[85] 2023-10-31  
[86] 2022-05-13 (PCT/US2022/029117)  
[87] (WO2022/241174)

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[25] EN  
[54] IN VITRO BREEDING SYSTEMS AND METHODS IN LIVESTOCK  
[54] SYSTEMES ET PROCEDES D'ELEVAGE IN VITRO DANS LE BETAIL  
[72] BEATON, BENJAMIN, US  
[72] KRISHER, REBECCA LYNN, US  
[72] LEE, CHANG HYUN, US  
[72] RAJPUT, SANDEEP, US  
[71] ABS GLOBAL, INC., US  
[85] 2023-10-31  
[86] 2022-05-26 (PCT/US2022/031210)  
[87] (WO2022/251549)  
[30] US (63/194,667) 2021-05-28

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[51] Int.Cl. A61K 47/64 (2017.01) A61K 31/44 (2006.01) A61K 31/535 (2006.01) A61K 38/13 (2006.01) C07K 14/47 (2006.01)  
[25] EN  
[54] COMPOSITION FOR TREATING AUTOIMMUNE, ALLOIMMUNE, INFLAMMATORY, AND MITOCHONDRIAL CONDITIONS, AND USES THEREOF  
[54] COMPOSITION POUR LE TRAITEMENT D'ETATS PATHOLOGIQUES AUTOIMMUNS, ALLO-IMMUNS, INFLAMMATOIRES ET MITOCHONDRIAUX, ET LEURS UTILISATIONS  
[72] KLEE, TREVOR, US  
[71] KLEE, TREVOR, US  
[85] 2023-10-31  
[86] 2022-05-20 (PCT/US2022/030179)  
[87] (WO2022/246146)  
[30] US (63/191,835) 2021-05-21  
[30] US (63/240,217) 2021-09-02

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[25] EN  
[54] CXCR5, PD-1, AND ICOS EXPRESSING TUMOR REACTIVE CD4 T CELLS AND THEIR USE  
[54] CXCR5, PD-1 ET ICOS EXPRIMANT DES LYMPHOCYTES T CD4 REACTIFS AUX TUMEURS ET LEUR UTILISATION  
[72] WEINBERG, ANDREW D., US  
[72] DUHEN, THOMAS, US  
[72] DUHEN, REBECCA, US  
[72] MOSES, JACOB, US  
[71] PROVIDENCE HEALTH & SERVICES - OREGON, US  
[71] AGONOX, INC., US  
[85] 2023-10-31  
[86] 2022-06-06 (PCT/US2022/032381)  
[87] (WO2022/261018)  
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  - [54] SYSTEME ET PROCEDE DE NANOFABRICATION 3D A HAUTE RESOLUTION
  - [72] ORAN, DANIEL, US
  - [72] MEEKS, AMOS, US
  - [72] SINJARI, SHEILAN, US
  - [71] IRRADIANT TECHNOLOGIES INC., US
  - [85] 2023-11-09
  - [86] 2022-05-26 (PCT/US2022/031205)
  - [87] (WO2022/251546)
  - [30] US (63/193,321) 2021-05-26
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  - [54] POLISHING BRUSH SYSTEM
  - [54] SYSTEME DE BROSSE DE POLISSAGE
  - [72] KINSEY, JOSH, US
  - [72] SANER, JASON, US
  - [72] DONOVAN, CHRISTIAN, US
  - [71] MALISH CORPORATION, US
  - [85] 2023-11-09
  - [86] 2022-05-24 (PCT/US2022/072522)
  - [87] (WO2022/251822)
  - [30] US (63/193,728) 2021-05-27
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  - [25] EN
  - [54] MASTIC CONCRETE COATING REMOVAL TOOL
  - [54] OUTIL DE RETRAIT DE REVETEMENT EN BETON MASTIC
  - [72] KELLEY, PATRICK, US
  - [72] LOVE, JON, US
  - [71] MALISH CORPORATION, US
  - [85] 2023-11-09
  - [86] 2022-05-20 (PCT/US2022/072459)
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  - [54] LAUNDRY DETERGENT ARTICLE
  - [54] ARTICLE DE DETERGENT A LESSIVE
  - [72] PECHERA, LEILANI, US
  - [72] GOMES, ANDRE, US
  - [72] POCCIA, III JOHN F., US
  - [72] ADAMY, STEVEN T., US
  - [72] BUTERA, ADAM E., US
  - [71] CHURCH & DWIGHT CO., INC., US
  - [85] 2023-11-09
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  - [25] EN
  - [54] HIGH-DENSITY POLYETHYLENE COMPOSITIONS HAVING IMPROVED PROCESSABILITY AND MOLDED ARTICLES MADE THEREFROM
  - [54] COMPOSITIONS DE POLYETHYLENE HAUTE DENSITE AYANT UNE CAPACITE DE TRAITEMENT AMELIOREE ET ARTICLES MOULES FABRIQUES A PARTIR DE CELLES-CI
  - [72] LU, KERAN, US
  - [72] WHITED, STEPHANIE M., US
  - [72] KAPUR, MRIDULA, US
  - [71] DOW GLOBAL TECHNOLOGIES LLC, US
  - [85] 2023-11-09
  - [86] 2022-05-13 (PCT/US2022/029235)
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  - [25] EN
  - [54] PLUME IDENTIFICATION ALGORITHM FOR OPTICAL NATURAL GAS EMISSIONS IMAGING
  - [54] ALGORITHME D'IDENTIFICATION DE PANACHE POUR IMAGERIE OPTIQUE D'EMISSIONS DE GAZ NATUREL
  - [72] ZIMMERLE, DANIEL, US
  - [72] MARTINEZ, MARCUS, US
  - [71] COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, US
  - [85] 2023-11-09
  - [86] 2022-10-06 (PCT/US2022/077715)
  - [87] (WO2023/060208)
  - [30] US (63/252,659) 2021-10-06
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**[21] 3,218,633**

[13] A1

- [51] Int.Cl. C12Q 1/68 (2018.01) C12P 19/34 (2006.01) C12Q 1/6839 (2018.01)
- [25] EN
- [54] COMPOSITIONS AND METHODS FOR EXPRESSING GENES OF INTEREST IN HOST CELLS
- [54] COMPOSITIONS ET PROCEDES D'EXPRESSION DE GENES D'INTERET DANS DES CELLULES HOTES
- [72] LANQUAR, VIVIANE, US
- [72] HATHWAIK, LEYLA, US
- [72] WANG, YAXIN, US
- [71] NOBELL FOODS, INC., US
- [85] 2023-11-09
- [86] 2022-05-27 (PCT/US2022/031424)
- [87] (WO2022/251691)
- [30] US (63/194,424) 2021-05-28

# Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

## Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

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[21] **3,216,579**  
[13] A1

[51] Int.Cl. A61K 31/196 (2006.01) A61K 31/198 (2006.01) A61P 25/00 (2006.01) A61P 25/24 (2006.01)  
[25] EN  
[54] DOSAGE FORMS AND THERAPEUTIC USES OF L-4-CHLOROKYNURENINE  
[54] FORMES GALENIQUES ET UTILISATIONS THERAPEUTIQUES DE L-4-CHLOROKYNURENINE  
[72] SNODGRASS, H., RALPH, US  
[72] CATO, ALLEN E., US  
[72] HICKLIN, JACK S., US  
[71] VISTAGEN THERAPEUTICS, INC., US  
[22] 2014-01-22  
[41] 2014-07-31  
[62] 3,128,321  
[30] US (61/849,191) 2013-01-22  
[30] US (61/849,191) 2013-01-22

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[21] **3,217,297**  
[13] A1

[25] EN  
[54] MULTI-NODAL SUPPLY CHAIN SYSTEM AND METHOD FOR SUPPLY CHAIN WORKFLOW EXECUTION  
[54]  
[72] GRAVELLE, SCOTT, CA  
[72] LANGEN, DOUGLAS, CA  
[72] SIMPSON, BRADLEY DEAN, CA  
[71] ATTABOTICS INC., CA  
[22] 2020-02-28  
[41] 2020-09-10  
[62] 3,119,942  
[30] US (62/812,822) 2019-03-01  
[30] US (62/818,419) 2019-03-14  
[30] US (62/818,444) 2019-03-14  
[30] US (62/818,506) 2019-03-14  
[30] US (62/836,863) 2019-04-22  
[30] US (62/846,295) 2019-05-10  
[30] US (62/891,549) 2019-08-26

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[21] **3,217,474**  
[13] A1

[51] Int.Cl. A47D 13/02 (2006.01) A47D 1/00 (2006.01)  
[25] EN  
[54] FOLDING HIGH CHAIR  
[54] CHAISE-HAUTE PLIANTE  
[72] LI, JIAN-QUN, CN  
[71] WONDERLAND SWITZERLAND AG, CH  
[22] 2020-06-24  
[41] 2020-12-24  
[62] 3,084,878  
[30] CN (201910553079.3) 2019-06-24

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[21] **3,217,627**  
[13] A1

[25] EN  
[54] FRACTIONAL FUNDS TRANSFER/ACCUMULATION DEVICE, PROGRAM, AND METHOD  
[54] DISPOSITIF, PROGRAMME ET PROCEDE DE TRANSFERT/ACCUMULATION DE FONDS FRACTIONNAIRES  
[72] TANAKA, TATSUO, JP  
[72] HIGUCHI, YOSHINOBU, JP  
[71] 10353744 CANADA LTD., CA  
[22] 2017-03-31  
[41] 2017-11-30  
[62] 3,155,708  
[30] JP (2016-106202) 2016-05-27

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[21] **3,217,664**  
[13] A1

[25] EN  
[54] MAGNETIC FASTENER SYSTEM  
[54] SYSTEME D'ATTACHE MAGNETIQUE  
[72] HARRIS, RICHARD H., US  
[72] THORNSBURY, AUDRIANA, US  
[72] YORK, KATHRYN ANN, US  
[72] GRAY, ALYSHA LYNN, US  
[71] LION GROUP, INC., US  
[22] 2020-07-30  
[41] 2022-01-13  
[62] 3,088,502  
[30] US (63/051,073) 2020-07-13

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[21] **3,217,669**  
[13] A1

[25] EN  
[54] COMMODITY SHORT TITLE GENERATION METHOD AND APPARATUS  
[54] PROCEDE ET APPAREIL DE GENERATION DE TITRE D'ABREGE DE PRODUIT  
[72] ZHU, BIN, CN  
[72] SHEN, YI, CN  
[72] QI, KANG, CN  
[72] NI, HEQIANG, CN  
[72] CHEN, SHU, CN  
[71] 10353744 CANADA LTD., CA  
[22] 2020-08-28  
[41] 2021-07-01  
[62] 3,166,094  
[30] CN (201911373120.5) 2019-12-27

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[21] **3,217,673**  
[13] A1

[25] EN  
[54] MAGNETIC FASTENER SYSTEM  
[54] SYSTEME D'ATTACHE MAGNETIQUE  
[72] HARRIS, RICHARD H., US  
[72] THORNSBURY, AUDRIANA, US  
[72] YORK, KATHRYN ANN, US  
[72] GRAY, ALYSHA LYNN, US  
[71] LION GROUP, INC., US  
[22] 2020-07-30  
[41] 2022-01-13  
[62] 3,088,502  
[30] US (63/051,073) 2020-07-13

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## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

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<b>[21] 3,217,676</b> [13] A1
[25] EN
<b>[54] INFORMATION PROCESSING DEVICE AND INFORMATION PROCESSING METHOD</b>
<b>[54] DISPOSITIF DE TRAITEMENT D'INFORMATIONS ET PROCEDE DE TRAITEMENT D'INFORMATIONS</b>
[72] YAMASAKI, TAKAO, JP
[72] IGARASHI, FUMIO, JP
[72] SAKIMURA, NATSUHIKO, JP
[71] 10353744 CANADA LTD., CA
[22] 2016-10-03
[41] 2017-04-06
[62] 3,026,289
[30] WO (PCT/JP2015/078016) 2015-10-02

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<b>[21] 3,217,678</b> [13] A1
[25] EN
<b>[54] MAGNETIC FASTENER SYSTEM</b>
<b>[54] SYSTEME D'ATTACHE MAGNETIQUE</b>
[72] HARRIS, RICHARD H., US
[72] THORNSBURY, AUDRIANA, US
[72] YORK, KATHRYN ANN, US
[72] GRAY, ALYSHA LYNN, US
[71] LION GROUP, INC., US
[22] 2020-07-30
[41] 2022-01-13
[62] 3,088,502
[30] US (63/051,073) 2020-07-13

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<b>[21] 3,217,696</b> [13] A1
[25] EN
<b>[54] RSV F PROTEIN MUTANTS</b>
<b>[54] MUTANTS DE PROTEINE RSV F</b>
[72] CHE, YE, US
[72] DORMITZER, PHILLIP RALPH, US
[72] GRIBENKO, ALEXEY VYACHESLAVOVICH, US
[72] HANDKE, LUKE DAVID, US
[72] PRASAD, AVVARI KRISHNA, US
[72] QIU, XIAYANG, US
[72] RUPPEN, MARK EDWARD, US
[72] SONG, XI, US
[72] SWANSON, KENA ANNE, US
[72] KODALI, SRINIVAS, US
[72] XU, XIN, US
[72] EFFEREN, KARIANN SWEENEY, US
[72] CAI, PING, US
[72] TOMPKINS, KRISTIN RACHAEL, US
[72] NUNEZ, LORNA DEL PILAR, US
[71] PFIZER INC., US
[22] 2016-12-19
[41] 2017-06-23
[62] 2,952,131
[30] US (62/387,270) 2015-12-23
[30] US (62/421,184) 2016-11-11

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<b>[21] 3,217,698</b> [13] A1
[25] EN
<b>[54] GENERATING COMPREHENSIVE WEATHER INSIGHTS FOR OPTIMAL AGRICULTURAL DECISION MAKING</b>
<b>[54] GENERATION D'APERCUS METEOROLOGIQUES COMPLETS POUR PRISES DE DECISIONS AGRICOLES OPTIMALES</b>
[72] ECKEL, FREDERICK ANTHONY, US
[72] HERMAN, GREGORY REID, US
[72] GOODMAN, CHRISTOPHER, US
[71] CLIMATE LLC, US
[22] 2020-03-27
[41] 2020-10-01
[62] 3,133,651
[30] US (62/824,977) 2019-03-27
[30] US (16/831,732) 2020-03-26

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<b>[21] 3,217,710</b> [13] A1
[25] EN
<b>[54] IMAGE ENCODING AND DECODING USING CONTEXT ADAPTIVE BINARY ARITHMETIC CODING WITH A BYPASS MODE</b>
<b>[54] CODAGE ET DECODAGE D'IMAGE EMPLOYANT LE CODAGE ARITHMETIQUE BINAIRE ADAPTATIF DE CONTEXTE ET UN MODE DE DERIVATION</b>
[72] TERADA, KENGO, JP
[72] SHIBAHARA, YOUJI, JP
[72] TANIKAWA, KYOKO, JP
[72] SASAI, HISAO, JP
[72] SUGIO, TOSUYASU, JP
[72] MATSUNOBU, TORU, JP
[71] SUN PATENT TRUST, US
[22] 2013-04-08
[41] 2013-11-28
[62] 2,841,107
[30] US (61/651,649) 2012-05-25

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<b>[21] 3,217,721</b> [13] A1
[51] Int.Cl. G06F 40/258 (2020.01) G06F 16/35 (2019.01) G06F 16/38 (2019.01) G06F 16/951 (2019.01) G06F 40/211 (2020.01)
[25] EN
<b>[54] COMMODITY SHORT TITLE GENERATION METHOD AND APPARATUS</b>
<b>[54] PROCEDE ET APPAREIL DE GENERATION DE TITRE D'ABREGE DE PRODUIT</b>
[72] ZHU, BIN, CN
[72] SHEN, YI, CN
[72] QI, KANG, CN
[72] NI, HEQIANG, CN
[72] CHEN, SHU, CN
[71] 10353744 CANADA LTD., CA
[22] 2020-08-28
[41] 2021-07-01
[62] 3,166,094
[30] CN (201911373120.5) 2019-12-27

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

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[21] **3,217,741**  
[13] A1

[25] EN  
[54] **MODULAR ULTRACAPACITOR ENERGY STORAGE/POWER DELIVERY APPARATUS AND METHODS**  
[54] **APPAREIL ET PROCEDES DE STOCKAGE/DISTRIBUTION D'ENERGIE A ULTRACONDENSATEUR MODULAIRE**  
[72] HITT, JOSHUA, US  
[72] BRANDON, TROY, US  
[72] BYNUM, BLAINE, US  
[72] SCHENK, GORDON, US  
[71] UCAP POWER, INC., US  
[22] 2021-02-22  
[41] 2021-09-02  
[62] 3,172,551  
[30] US (62/981,432) 2020-02-25

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[21] **3,217,744**  
[13] A1

[25] EN  
[54] **MICROBIALLY ENHANCED THERMAL OIL RECOVERY**  
[54] **RECUPERATION THERMIQUE D'HUILE AMELIOREE DE MANIERE MICROBIENNE**  
[72] HUBERT, CASEY, CA  
[72] FUSTIC, MILOVAN, CA  
[71] 9668241 CANADA INC., CA  
[22] 2016-09-22  
[41] 2017-03-30  
[62] 3,087,490  
[30] US (62/221,936) 2015-09-22

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[21] **3,217,796**  
[13] A1

[25] EN  
[54] **AN APPARATUS AND METHOD FOR IMAGING CONTAINERS**  
[54] **APPAREIL ET PROCEDE D'IMAGERIE DE RECIPIENTS**  
[72] CLANCY, TOM, GB  
[72] POPOV, IVAYLO, GB  
[72] MAKRIS, CHRISTOS, GB  
[71] OCADO INNOVATION LIMITED, GB  
[22] 2020-04-28  
[41] 2020-11-05  
[62] 3,138,377  
[30] GB (1906157.1) 2019-05-02

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[21] **3,217,805**  
[13] A1

[51] Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61P 7/00 (2006.01) C12N 5/10 (2006.01) C12N 15/63 (2006.01)  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF TMPRSS6 GENE**  
[54] **COMPOSITIONS ET METHODES PERMETTANT D'INHIBER L'EXPRESSION DU GENE TMPRSS6**  
[72] BUMCROT, DAVID, US  
[72] BETTENCOURT, BRIAN, US  
[72] TOUDJARSKA, IVANKA, US  
[71] ALNYLAM PHARMACEUTICALS, INC., US  
[22] 2012-03-28  
[41] 2012-10-04  
[62] 2,831,284  
[30] US (61/468,830) 2011-03-29  
[30] US (61/568,942) 2011-12-09

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[21] **3,217,813**  
[13] A1

[25] EN  
[54] **METHOD OF WETTING LOW SURFACE ENERGY SUBSTRATE AND A SYSTEM THEREFOR**  
[54] **PROCEDE DE MOUILLAGE D'UN SUBSTRAT A FAIBLE ENERGIE SUPERFICIELLE ET SYSTEME ASSOCIE**  
[72] AGAPOV, ALEXANDER L., US  
[71] W. L. GORE & ASSOCIATES, INC., US  
[22] 2020-06-05  
[41] 2020-12-10  
[62] 3,136,757  
[30] US (62/858,159) 2019-06-06

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[21] **3,217,821**  
[13] A1

[25] EN  
[54] **AIR INTAKE SYSTEM FOR AN OFF-ROAD VEHICLE**  
[54] **SYSTEME D'ADMISSION D'AIR POUR VEHICULE TOUT-TERRAIN**  
[72] LECLAIR, ALEXANDRE, CA  
[72] PROULX, DAVE, CA  
[72] TOUPIN, PASCAL, CA  
[72] DUQUETTE, MATHIEU, CA  
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA  
[22] 2017-04-28  
[41] 2017-11-02  
[62] 3,022,389  
[30] US (62/328,893) 2016-04-28

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[21] **3,217,838**  
[13] A1

[25] EN  
[54] **SYSTEM, METHOD, AND APPARATUS FOR COMMUNICATING DATA**  
[54] **SYSTEME, PROCEDE, ET APPAREIL POUR UNE COMMUNICATION DE DONNEES**  
[72] KAMEN, DEAN, US  
[72] KERWIN, JOHN M., US  
[72] BALLANTYNE, TODD A., US  
[72] MORGAN, FREDERICK, US  
[72] DEMERS, JASON A., US  
[72] BIASI, JOHN J., US  
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US  
[22] 2013-12-20  
[41] 2014-06-26  
[62] 2,895,766  
[30] US (13/723,239) 2012-12-21  
[30] US (13/723,253) 2012-12-21  
[30] US (13/723,242) 2012-12-21  
[30] US (61/740,474) 2012-12-21  
[30] US (13/900,655) 2013-05-23  
[30] US (PCT/US2013/42350) 2013-05-23  
[30] US (14/135,809) 2013-12-20

## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

<p style="text-align: right;"><b>[21] 3,217,839</b> [13] A1</p> <p>[51] <b>Int.Cl. B01D 46/52 (2006.01) B60K 13/02 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>AIR INTAKE SYSTEM FOR AN OFF-ROAD VEHICLE</b></p> <p>[54] <b>SISTÈME D'ADMISSION D'AIR POUR VÉHICULE TOUT-TERRAIN</b></p> <p>[72] LECLAIR, ALEXANDRE, CA</p> <p>[72] PROULX, DAVE, CA</p> <p>[72] TOUPIN, PASCAL, CA</p> <p>[72] DUQUETTE, MATHIEU, CA</p> <p>[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA</p> <p>[22] 2017-04-28</p> <p>[41] 2017-11-02</p> <p>[62] 3,022,389</p> <p>[30] US (62/328,893) 2016-04-28</p>	<p style="text-align: right;"><b>[21] 3,217,881</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>ARTICLE WITH A DYNAMIC FRAME FORMED WITH ALIGNED PIGMENT FLAKES</b></p> <p>[54] <b>ARTICLE COMPORTANT UN CHASSIS DYNAMIQUE FORMÉ DE FLOCONS DE PIGMENTS ALIGNÉS</b></p> <p>[72] RAKSHA, VLADIMIR P., US</p> <p>[72] HYNES, JOHN, US</p> <p>[72] HOLDEN, LAURENCE, US</p> <p>[72] COOMBS, PAUL G., US</p> <p>[71] VIAVI SOLUTIONS INC., US</p> <p>[22] 2013-01-09</p> <p>[41] 2013-07-18</p> <p>[62] 3,123,564</p> <p>[30] US (61/585,954) 2012-01-12</p>	<p style="text-align: right;"><b>[21] 3,217,901</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>AEROSOL PROVISION SYSTEM</b></p> <p>[54] <b>SISTÈME DE FOURNITURE D'AÉROSOL</b></p> <p>[72] ANGELL, TERRY LEE, GB</p> <p>[72] SUTTON, JOSEPH, GB</p> <p>[71] NICOVENTURES TRADING LIMITED, GB</p> <p>[22] 2020-08-05</p> <p>[41] 2021-07-15</p> <p>[62] 3,164,268</p> <p>[30] GB (2000237.4) 2020-01-08</p>
<p style="text-align: right;"><b>[21] 3,217,874</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>WELDING METHOD UTILIZING CLOUD COMPUTING AND DATA STORAGE</b></p> <p>[54] <b>PROCEDE DE SOUDAGE UTILISANT L'INFORMATIQUE EN NUAGE ET LE STOCKAGE DE DONNEES</b></p> <p>[72] ALBRECHT, BRUCE PATRICK, US</p> <p>[72] SCHARTNER, QUINN WILLIAM, US</p> <p>[72] PANELLI, EDWARD J., US</p> <p>[71] ILLINOIS TOOL WORKS INC., US</p> <p>[22] 2012-09-25</p> <p>[41] 2013-04-04</p> <p>[62] 2,847,194</p> <p>[30] US (61/539,762) 2011-09-27</p> <p>[30] US (13/619,691) 2012-09-14</p>	<p style="text-align: right;"><b>[21] 3,217,885</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>SYSTEMS AND METHOD FOR SKIN ANALYSIS USING ELECTRONIC DEVICES</b></p> <p>[54] <b>SYSTEMES ET PROCEDE D'ANALYSE DE LA PEAU EN UTILISANT DES DISPOSITIFS ELECTRONIQUES</b></p> <p>[72] RATTNER, SERGIO, CA</p> <p>[72] ILIES, DAN-RAZVAN, CA</p> <p>[71] FITSKIN INC., CA</p> <p>[22] 2017-04-21</p> <p>[41] 2017-10-26</p> <p>[62] 3,021,761</p> <p>[30] US (62/326,558) 2016-04-22</p> <p>[30] US (62/344,287) 2016-06-01</p> <p>[30] US (62/438,835) 2016-12-23</p>	<p style="text-align: right;"><b>[21] 3,217,916</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>PRODUCT RESERVOIR VALIDATION SYSTEM</b></p> <p>[54] <b>APPAREILLAGE DE VALIDATION DE RESERVOIR DE PRODUIT</b></p> <p>[72] CARLSON, GRANT BENJAMIN, US</p> <p>[71] GOJO INDUSTRIES, INC., US</p> <p>[22] 2016-11-15</p> <p>[41] 2017-05-16</p> <p>[62] 2,948,571</p> <p>[30] US (62/255690) 2015-11-16</p>
<p style="text-align: right;"><b>[21] 3,217,919</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>CONTENT POLICY DISCOVERY</b></p> <p>[54] <b>DECOUVERTE DE POLITIQUE DE CONTENU</b></p> <p>[72] ERB, JEREMY, CA</p> <p>[71] NETSWEEPER (BARBADOS) INC., BB</p> <p>[22] 2016-09-08</p> <p>[41] 2017-03-16</p> <p>[62] 3,009,689</p> <p>[30] US (62/216,880) 2015-09-10</p>	<p style="text-align: right;"><b>[21] 3,217,890</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>SYSTEMS AND METHODS FOR PRODUCING A SUGAR STREAM</b></p> <p>[54] <b>SYSTEMES ET METHODES DE PRODUCTION D'UN FLUX DE SUCRE</b></p> <p>[72] JAKEL, NEAL, US</p> <p>[72] FRANKO, MICHAEL, US</p> <p>[72] KWIK, JOHN, US</p> <p>[72] WHALEN, ANDREW, US</p> <p>[71] FLUID QUIP TECHNOLOGIES, LLC, US</p> <p>[22] 2016-07-21</p> <p>[41] 2017-01-23</p> <p>[62] 2,936,687</p> <p>[30] US (62/196,108) 2015-07-23</p> <p>[30] US (15/074,417) 2016-03-18</p>	<p style="text-align: right;"><b>[21] 3,217,919</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>CONTENT POLICY DISCOVERY</b></p> <p>[54] <b>DECOUVERTE DE POLITIQUE DE CONTENU</b></p> <p>[72] ERB, JEREMY, CA</p> <p>[71] NETSWEEPER (BARBADOS) INC., BB</p> <p>[22] 2016-09-08</p> <p>[41] 2017-03-16</p> <p>[62] 3,009,689</p> <p>[30] US (62/216,880) 2015-09-10</p>

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

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[21] **3,217,921**  
[13] A1

[25] EN  
[54] **LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS**  
[54] **CODAGE EN COUCHES POUR REPRESENTATIONS COMPRIMEES DE CHAMP SONORE OU DE SON**  
[72] KORDON, SVEN, DE  
[72] KRUEGER, ALEXANDER, DE  
[71] DOLBY INTERNATIONAL AB, NL  
[22] 2016-10-07  
[41] 2017-04-13  
[62] 3,000,905  
[30] EP (15306589.1) 2015-10-08  
[30] EP (15306653.5) 2015-10-15  
[30] US (62/361,461) 2016-07-12  
[30] US (62/361,416) 2016-07-12

[21] **3,217,926**  
[13] A1

[25] EN  
[54] **LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS**  
[54] **CODAGE EN COUCHES POUR REPRESENTATIONS COMPRIMEES DE CHAMP SONORE OU DE SON**  
[72] KORDON, SVEN, DE  
[72] KRUEGER, ALEXANDER, DE  
[71] DOLBY INTERNATIONAL AB, NL  
[22] 2016-10-07  
[41] 2017-04-13  
[62] 3,000,905  
[30] EP (15306589.1) 2015-10-08  
[30] EP (15306653.5) 2015-10-15  
[30] US (62/361,461) 2016-07-12  
[30] US (62/361,416) 2016-07-12

[21] **3,217,930**  
[13] A1

[25] EN  
[54] **ERGODIC SPECTRUM MANAGEMENT SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES DE GESTION DE SPECTRE ERGODIQUE**  
[72] CIOFFI, JOHN, US  
[72] HWANG, CHAN-SOO, US  
[72] KERPEZ, KENNETH, US  
[72] OH, JISUNG, US  
[72] KANELAKOPOULOS, IOANNIS, US  
[72] CHOW, PETER, US  
[71] ASSIA SPE, LLC, US  
[22] 2020-02-27  
[41] 2020-09-03  
[62] 3,129,522  
[30] US (62/812,086) 2019-02-28  
[30] US (62/812,149) 2019-02-28  
[30] US (62/861,979) 2019-06-14  
[30] US (62/861,993) 2019-06-14

[21] **3,217,936**  
[13] A1

[25] EN  
[54] **INDUSTRIAL FLUIDS WITH DILUTION RESISTANCE AND TUNABLE VISCOSITY, AND METHODS OF MAKING AND USING INDUSTRIAL FLUIDS**  
[54] **FLUIDES INDUSTRIELS PRESENTANT UNE RESISTANCE A LA DILUTION ET UNE VISCOSITE AJUSTABLE ET PROCEDES DE FABRICATION ET D'UTILISATION DES FLUIDES INDUSTRIELS**  
[72] KOSTER, NICHOLAS A., US  
[72] DOUS, DARRELL, US  
[72] MANNING, ANTHONY, US  
[71] BLUE NOSE USA LLC, US  
[22] 2015-10-27  
[41] 2016-05-06  
[62] 2,965,957  
[30] US (62/069,076) 2014-10-27

[21] **3,217,943**  
[13] A1

[25] EN  
[54] **SYSTEMS AND METHODS TO PROVIDE WELDING-TYPE ARC STARTING AND STABILIZATION WITH REDUCED OPEN CIRCUIT VOLTAGE**  
[54] **SYSTEMES ET METHODES DE DEMARRAGE ET DE STABILISATION D'UN ARC DE SOUDAGE A TENSION EN CIRCUIT OUVERT REDUITE**  
[72] VOGEL, BERNARD J., US  
[72] MADSEN, MICHAEL D., US  
[71] ILLINOIS TOOL WORKS INC., US  
[22] 2020-09-03  
[41] 2021-04-30  
[62] 3,092,044  
[30] US (16/670,993) 2019-10-31

[21] **3,217,965**  
[13] A1

[25] EN  
[54] **DIAMOND COATED ELECTRODES FOR ELECTROCHEMICAL PROCESSING AND APPLICATIONS THEREOF**  
[54]  
[72] GOROKHOVSKY, VLADIMIR, US  
[72] SULLIVAN, PATRICK, US  
[72] BRONDUM, KLAUS, US  
[72] JONTE, PATRICK B., US  
[71] VAPOR TECHNOLOGIES, INC., US  
[22] 2015-06-18  
[41] 2015-12-26  
[62] 3,153,271  
[30] US (62/017,555) 2014-06-26  
[30] US (14/736,934) 2015-06-11

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[21] 3,217,982  
[13] A1

[25] EN  
**[54] SOLID-STATE LIGHTING FIXTURES WITH SOCKET CONNECTIONS FOR ACCESSORIES AND ACCESSORIES FOR USE THEREWITH**  
**[54] APPAREILS D'ECLAIRAGE A SEMICONDUCTEURS COMPRENANT DES CONNEXIONS DE DOUILLE POUR DES ACCESSOIRES, ET ACCESSOIRES CONNEXES**  
[72] RAGHAVAN, RAMESH, US  
[72] CHAMI, AYMEN, US  
[72] CLOHOSEY, ERIC, US  
[72] ENTREKIN, STEPHEN ANDREW, US  
[72] DAI, XIAOMING, US  
[71] MAXLITE, INC., US  
[22] 2021-07-02  
[41] 2022-01-06  
[62] 3,123,681  
[30] US (63/048,373) 2020-07-06  
[30] US (17/215,852) 2021-03-29

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[21] 3,218,014  
[13] A1

[25] EN  
**[54] CONNECTION DEVICE FOR MECHANICAL WAVEGUIDES**  
[54]  
[72] BROUILLETTE, MARTIN, CA  
[72] DION, STEVEN, CA  
[72] REIL, LOUIS-PHILIPPE, CA  
[71] LES SOLUTIONS MEDICALES SOUNDBITE INC., CA  
[22] 2016-04-25  
[41] 2016-10-27  
[62] 3,141,016  
[30] US (62/152,332) 2015-04-24

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[21] 3,218,040  
[13] A1

[25] EN  
**[54] ORTHOGONAL CAS9 PROTEINS FOR RNA-GUIDED GENE REGULATION AND EDITING**  
**[54] PROTEINES CAS9 ORTHOGONALES POUR LA REGULATION ET L'EDITION DE GENES AVEC ARN GUIDE**  
[72] CHURCH, GEORGE M., US  
[72] ESVELT, KEVIN, US  
[72] MALI, PRASHANT, US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US  
[22] 2014-07-08  
[41] 2015-01-15  
[62] 2,917,639  
[30] US (61/844,844) 2013-07-10

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[21] 3,218,106  
[13] A1

[25] EN  
**[54] ANTI-LILRB ANTIBODIES AND THEIR USE IN DETECTING AND TREATING CANCER**  
**[54] ANTICORPS ANTI-LILRB ET LEUR UTILISATION POUR DETECTER ET TRAITER UN CANCER**  
[72] ZHANG, CHENGCHENG, US  
[72] DENG, MI, US  
[72] AN, ZHIQIANG, US  
[72] XIONG, WEI, US  
[72] ZHANG, NINGYAN, US  
[72] ZHENG, JUNKE, CN  
[72] GUI, XUN, US  
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US  
[22] 2016-03-04  
[41] 2016-09-15  
[62] 2,977,544  
[30] US (62/129,572) 2015-03-06

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[21] 3,218,223  
[13] A1

[25] EN  
**[54] APPARATUS FOR RETROFIT OF AUXILIARY SERIAL COMMUNICATION PORT(S) IN A SLOT ACCOUNTING SYSTEM**  
**[54] APPAREIL DE REQUIPEMENT D'UN OU DE PLUSIEURS PORTS DE COMMUNICATION SERIE AUXILIAIRE(S) DANS UN SYSTEME DE COMPTAGE DE SOUS**  
[72] MOHRHARDT, DOMINIC, US  
[72] KUBAJAK, DAVE, US  
[71] JCM AMERICAN CORPORATION, US  
[22] 2019-09-25  
[41] 2020-04-09  
[62] 3,106,686  
[30] US (62/742,058) 2018-10-05  
[30] US (16/560,841) 2019-09-04

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[21] 3,218,224  
[13] A1

[25] EN  
**[54] POSITION-BIASED LOCKING PIN ASSEMBLY FOR A GROUND ENGAGING WEAR MEMBER**  
**[54] ENSEMBLE GOUPILLE DE VERROUILLAGE SOLICITE EN POSITION POUR ELEMENT D'USURE ENTRANT EN CONTACT AVEC LE SOL**  
[72] BILAL, MOHAMAD YOUSSEF, US  
[71] HENSLEY INDUSTRIES, INC., US  
[22] 2020-04-14  
[41] 2020-10-22  
[62] 3,136,807  
[30] US (62/834,214) 2019-04-15  
[30] US (16/843,623) 2020-04-08

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[21] 3,218,228  
[13] A1

[25] EN  
**[54] LABORATORY TESTING-BASED VALVE PROGNOSTICS**  
**[54] PRONOSTICS DE SOUPAPE BASES SUR DES ESSAIS EN LABORATOIRE**  
[72] GRABAU, TED DENNIS, US  
[72] ANDERSON, SHAWN W., US  
[71] FISHER CONTROLS INTERNATIONAL LLC, US  
[22] 2014-03-14  
[41] 2014-09-25  
[62] 2,902,198  
[30] US (61/785,073) 2013-03-14

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

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[21] **3,218,229**  
[13] A1

[25] EN  
[54] **ORAL TREATMENT DEVICE**  
[54] **DISPOSITIF DE TRAITEMENT  
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[72] DEMAREST, SCOTT, US  
[72] TATU, FRANCIS, US  
[72] BARTLETT, MARK, US  
[72] LAVENDER, STACEY, US  
[72] JOHANSSON, PATRIK, US  
[72] MOSBY, SCOTT, US  
[72] LOWENTHAL, MARK, US  
[71] COLGATE-PALMOLIVE COMPANY,  
US  
[22] 2016-12-19  
[41] 2017-06-29  
[62] 3,007,490  
[30] US (14/979,064) 2015-12-22

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[21] **3,218,231**  
[13] A1

[25] EN  
[54] **COMPOSITIONS AND KITS FOR  
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[54] **COMPOSITIONS ET TROUSSES  
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[72] FU, GLENN K., US  
[72] FODOR, STEPHEN P.A., US  
[72] WILHELMY, JULIE, US  
[71] BECTON, DICKINSON AND  
COMPANY, US  
[22] 2013-02-27  
[41] 2013-09-06  
[62] 2,865,575  
[30] US (61/603,921) 2012-02-27  
[30] US (61/745,385) 2012-12-21

[21] **3,218,281**  
[13] A1

[25] EN  
[54] **COATING COMPOSITIONS FOR  
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USE**  
[54] **COMPOSITIONS DE  
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DE COPEAUX ORIENTES ET  
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[72] AGRAWAL, SARVESH K., US  
[72] RUD, JOSEPH P., US  
[72] HOCH, LARRY E., US  
[72] TURNER, ELIZABETH, CA  
[72] PORTOGHESE, FEDERICA, CA  
[72] BLAHEY, ALAN, CA  
[71] EXXONMOBIL RESEARCH AND  
ENGINEERING COMPANY, US  
[22] 2017-02-14  
[41] 2017-08-31  
[62] 3,012,701  
[30] US (62/300,120) 2016-02-26

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[21] **3,218,289**  
[13] A1

[25] EN  
[54] **SYSTEM AND METHOD FOR  
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VEHICLE HEADLIGHT**  
[54] **SYSTEME ET METHODE POUR  
CONTROLEUR UN PHARE AVANT  
DE VEHICULE ELECTRIQUE**  
[72] LARSEN, CYRUS, CA  
[72] BRUNEAU, SAMUEL, CA  
[71] TAIGA MOTORS INC., CA  
[22] 2022-12-02  
[41] 2023-02-14  
[62] 3,183,349

[21] **3,218,381**  
[13] A1

[25] EN  
[54] **PATIENT SUPPORT USABLE  
WITH BARIATRIC PATIENTS**  
[54] **SUPPORT DE PATIENT POUVANT  
ETRE UTILISE AVEC DES  
PATIENTS BARIATRIQUES**  
[72] ROUSSY, RICHARD BRIAN, CA  
[72] CONNELL, JASON JOHN, CA  
[72] ELKU, JOSEPH STEVEN DAVID, CA  
[72] CERNY, JASON JAMES, CA  
[72] GEORGE, CHRISTOPHER ALAN, CA  
[72] ROUSSY, JOSEPH WILLIAM, CA  
[72] JACOB, CHRISTOPHER SCOTT, CA  
[72] YUSUF, ALEEM, CA  
[71] STRYKER CORPORATION, US  
[22] 2014-09-08  
[41] 2015-03-12  
[62] 3,129,202  
[30] US (61/874,959) 2013-09-06

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[21] **3,218,382**  
[13] A1

[25] EN  
[54] **DEVICE AND METHOD FOR  
PRODUCING LIQUID SILICON**  
[54] **SYSTEME ET PROCEDE POUR  
FORMER DU SILICIUM LIQUIDE**  
[72] SCHMID, CHRISTIAN, DE  
[72] PETRIK, GEORGIJ, DE  
[72] HAHN, JOCHEM, DE  
[72] FEINAUGLE, PETER, DE  
[71] SCHMID SILICON TECHNOLOGY  
GMBH, DE  
[22] 2020-07-02  
[41] 2021-01-07  
[62] 3,144,306  
[30] DE (10 2019 209 898.3) 2019-07-04

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[21] 3,218,388

[13] A1

[51] Int.Cl. G01S 19/20 (2010.01)

[25] EN

[54] SYSTEM AND METHOD FOR GENERATING A PHASE SCINTILLATION MAP UTILIZED FOR DE-WEIGHTING OBSERVATIONS FROM GNSS SATELLITES

[54] SYSTEME ET METHODE DE GENERATION D'UN PLAN DE SCINTILLATION DE PHASE DESTINE A DEPONDERER LES OBSERVATIONS DE SATELLITES GNSS

[72] MORLEY, THOMAS, CA

[71] NOVATEL INC., CA

[22] 2018-07-03

[41] 2019-02-17

[62] 3,010,207

[30] US (15/679,758) 2017-08-17

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[21] 3,218,391

[13] A1

[25] EN

[54] QUASI-CYLINDRICAL CARGO CONTAINER AND CONSTRUCTION

[54] CONTENEUR A MARCHANDISES QUASI CYLINDRIQUE ET FABRICATION

[72] KLOEPFER, MICHAEL, CA

[71] TITAN TRAILERS INC., CA

[22] 2018-06-15

[41] 2019-03-28

[62] 3,090,574

[30] US (62/562,001) 2017-09-22

[30] CA (PCT/CA2017/051544) 2017-12-19

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[21] 3,218,513

[13] A1

[25] EN

[54] HEART HELP DEVICE, SYSTEM, AND METHOD

[54]

[72] FORSELL, PETER, CH

[71] MEDICALTREE PATENT LTD., LU

[22] 2009-10-12

[41] 2010-04-15

[62] 3,149,150

[30] SE (0802157-8) 2008-10-10

[30] SE (0802141-2) 2008-10-10

[30] SE (0802140-4) 2008-10-10

[30] SE (0802139-6) 2008-10-10

[30] SE (0802144-6) 2008-10-10

[30] SE (0802142-0) 2008-10-10

[30] SE (0802150-3) 2008-10-10

[30] SE (0802146-1) 2008-10-10

[30] SE (0802143-8) 2008-10-10

[30] US (61/202,380) 2009-02-24

[30] US (61/202,383) 2009-02-24

[30] US (61/202,382) 2009-02-24

[30] US (61/202,405) 2009-02-25

[30] US (61/202,406) 2009-02-25

[30] US (61/202,407) 2009-02-25

[30] US (61/202,404) 2009-02-25

[30] US (61/202,393) 2009-02-25

[30] US (61/213,157) 2009-05-12

[30] US (61/213,155) 2009-05-12

[30] US (61/213,158) 2009-05-12

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[21] 3,218,529

[13] A1

[51] Int.Cl. C10G 2/00 (2006.01) C07C 1/04 (2006.01) C07C 7/04 (2006.01) C10G 31/06 (2006.01)

[25] EN

[54] MICRO-SCALE PROCESS FOR THE DIRECT PRODUCTION OF LIQUID FUELS FROM GASEOUS HYDROCARBON RESOURCES

[54] PROCESSUS A MICRO-ECHELLE POUR LA PRODUCTION DIRECTE DE COMBUSTIBLES LIQUIDES A PARTIR DE RESSOURCES EN HYDROCARBURES GAZEUX

[72] SCHUETZLE, ROBERT, US

[72] SCHUETZLE, DENNIS, US

[71] GREYROCK TECHNOLOGY, LLC, US

[22] 2019-01-25

[41] 2019-08-01

[62] 3,191,887

[30] US (15/932,037) 2018-01-26

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CHANDUSZKO, ANDRZEJ J.	2,944,084	TECHNOLOGIES INC.	3,063,205	ERIKSEN, LARS A.	2,959,881
CHATTAWAY, ADAM	3,120,991	DAVIS, ROBERT S.	3,098,183	ERNST, MARTIN	3,052,064
CHAVEZ, KEVIN JOSE	2,956,233	DAWSON-TOWNSEND,	3,106,003	ETH ZURICH	3,003,627
CHEGG, INC.	3,130,626	TIMOTHY	3,050,426	EVANS, ALAN F	2,975,042
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CHEN, HAIFENG	2,981,797	DE HAARD, JOHANNES	2,934,644	EXPEDIA, INC.	2,992,997
CHEN, KEVIN	3,012,699	DE PONNAT, ARNAUD	3,009,023	EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY	3,052,064
CHEN, LINXIAO	2,965,237	DEANGELIS, DOUGLAS J.	3,054,732	EZRI, DORON	3,151,711
CHEN, ROGER J. A.	3,080,120	DEBRIL, JEAN-FRANCOIS	2,973,312	E^NAT TECHNOLOGIES, LLC	3,073,419
CHEN, SHUHUI	2,966,601	DECOUFOUR, NICOLAS	2,973,312	F. HOFFMANN-LA ROCHE AG	2,966,601
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CHEN, YI	3,138,625	DEJERO LABS INC.	2,897,772	FAHIMA, MOSHE	2,987,183
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CHIU, ANNA	2,995,043	DESLAURIERS, MAXIME	3,027,648	FAYT, ETIENNE	2,910,670
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KENT, HARRY WILLIAM, JR.	2,995,980	LAROCHE, NICOLAS	3,017,996	LUU, TIM	3,098,183
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MENON, SAMIR	3,048,549	NEMASKA LITHIUM INC.	3,055,553	PEREIRA, CARLA	3,052,064
MENRATH, VERA		NEPTUNE TECHNOLOGY		PEREZ GARCIA, ARIANNE	3,030,683
MERCIER, MATTHEW	2,954,286	GROUP INC.	3,108,975	PETAINTER LARGE	
METRO SAFETY RAIL INCORPORATED	3,130,626	NETFLIX, INC.	3,042,283	CONTAINER IP LIMITED	3,051,650
METSO OUTOTEC FINLAND OY	3,097,276	NETTEM, VENKATESWARLU		PETERSON, YURI KARL	2,982,824
METTLER-TOLEDO RAININ, LLC	3,105,704	CHOUDARY	3,037,612	PEVOAR, LAWRENCE A.	3,106,003
MEYER, NATHANIEL ANDREW		NEUMEIER, ZEEV	2,992,319	PEZESHKI, FARHAD	3,065,585
MEYERINK, LARRY	2,986,123	NEW YORK UNIVERSITY	3,080,120	PFIZER INC.	3,144,848
MEYERSON, ELLIOTT	3,123,729	NGUYEN, TONY	2,939,083	PHARMA MAR, S.A.	3,117,268
MIIKKULAINEN, RISTO		NICHOLSON, PETER JOHN	3,014,640	PHILLIPS, JEREMY	3,024,662
MIKAWA, MASATO	3,116,782	NICOLAY, RENAUD	3,032,026	PHONE DOCKER, LTD.	3,090,228
MILBOCKER, MICHAEL	3,116,782	NICOVENTURES TRADING		PIASENTI, FRANCESCA	3,025,230
MILLER, BYRD TYLER, IV	3,158,908	LIMITED	3,024,662	PLASTIPAK PACKAGING, INC.	
MILLER, DANIEL S.	3,106,797	NICOYA LIFESCIENCES, INC.	3,061,157	3,007,223	
MILLER, DONALD L.	2,933,937	NIEDEROEST, BEAT	3,010,287	PLITEQ INC.	2,980,628
MILLER, GEORGE		NIPPON STEEL		POGO INTERNATIONAL	
MILLER, RUSSELL ALAN	3,116,782	CORPORATION	3,131,661	LIMITED	2,962,925
MILLICAN, CONNOR DAVID	3,153,382	NITIN, ANAND PAI		POITRAS, GUILLAUME	2,923,567
MILNES, THOMAS B.	3,001,007	KRISHNANAND	3,122,785	POLLINA, MICHAEL	2,960,294
MINEZAWA, AKIRA	2,968,311	NORTHROP GRUMMAN		PORTER, DAVID H.	3,015,515
MITCHELL, HELEN	3,029,397	SYSTEMS CORPORATION	3,120,018	POSER, STEFFEN	3,137,440
MITSUBISHI ELECTRIC CORPORATION	3,120,018	NOSEOPTION AB	3,062,970	POTTER, RACHAEL	3,005,633
MITSUBISHI MATERIALS CORPORATION	3,080,120	O'SHEA, CLODAGH	2,867,129	POTTORE, NARAYAN	3,138,625
MIYAKE-STONER, SHIGEKI	3,144,848	OCVIRK, GREGOR	3,092,192	POVINELLI, ANTHONY J.	2,957,214
MIZKAN HOLDINGS CO., LTD.	3,145,802	OECHSLE, DIETMAR	3,005,144	POWERS, COLIN	2,867,129
MOAK, MORGAN PEARL	3,015,515	OGLOW, RYAN	3,192,971	PPG INDUSTRIES OHIO, INC.	3,140,367
MOCK, ULRIKE	2,904,730	OHTA, SATOMI	3,035,654	PRAKASAM, PRASHANTH	
MOHIMEDI, SAEID	2,909,315	OLOFSSON, GORAN	2,948,191	KOTTE	2,992,997
MONSANTO TECHNOLOGY, LLC		OMOTO, KIYOKUKI	3,144,848	PRATT & WHITNEY CANADA CORP.	2,923,567
MONSON, MARC W.	2,904,730	ON, CHOW KWOK	3,080,365	PRATT & WHITNEY CANADA CORP.	2,924,902
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MOORE, JOSHUA	2,867,129	ONOUCHI, HISANARI	3,074,817	PRATT & WHITNEY CANADA CORP.	2,938,124
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	2,948,198	CORPORATION	3,070,006	PRICE, NEIL	3,049,574
	3,065,585	ORACLE INTERNATIONAL		PRICONE, ROBERT M.	3,005,722
	2,842,793	CORPORATION	3,070,009	PRITZKER, KENNETH	2,892,680
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	2,972,781	ORTIZ, EDISON U.	2,974,151	PUBRAT, DAVID	3,161,837
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	2,972,781	OSMALOV, DAVID	2,960,294	MURTY	3,037,612
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RAHN, MR. UWE	3,087,545	SAKaida, ISAO	2,969,598	SHROFF, JAIDEV RAJNIKANT	3,002,772
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RESEARCH INSTITUTE OF NATIONWIDE CHILDREN'S HOSPITAL	3,005,633	SCHAFFROTH, MICHAEL ANDREAS	3,003,627	SMEE, JOHN EDWARD	3,016,573
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RHT RAIL HAUL TECHNOLOGIES INC.	2,984,930	SCHNEIDER, NICOLAS	2,925,554	SOBOTZKI, NADINE	3,003,627
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RNA DIAGNOSTICS INC.	3,123,163	SCHUETZLE, ROBERT	3,180,810	SOKOLOWSKI, DAVID	2,995,043
ROBB, STEVEN	2,924,311	SCHULER, ALWIN	3,180,810	SOLAR CONNECTIONS INTERNATIONAL, INC.	3,030,566
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RODRIGUEZ, RAMER	3,122,785	SEEMANN, MARCO	3,140,367	SORIAGA, JOSEPH BINAMIRA	3,016,573
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ROTH FLACH, RACHEL JANE	3,005,633	SERA4 LTD.	2,946,641	STACKPOLE INTERNATIONAL	
ROTO FRANK FENSTER- UND TURTECHNOLOGIE GMBH		SERVICENOW CANADA INC.	3,070,701	ENGINEERED PRODUCTS, LTD.	3,035,635
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ROYAL BANK OF CANADA	3,103,522	SELEVAN, JAMES R.	3,163,973	STEEVES, PATRICK	3,070,701
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				SKJASTAD	3,104,180

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STORA ENSO OYJ	3,049,310	THE TORONTO-DOMINION BANK	3,059,140	VENDITTI, ROBERT	2,938,124
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STROBEL, ANDREW ALBERT	3,111,733	THE TORONTO-DOMINION BANK	3,159,600	VERMEER MANUFACTURING COMPANY	3,111,733
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T-MOBILE USA, INC.	3,084,151	TREVINO, MARCO	2,968,731	WARD, JUSTIN MARK	3,166,468
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