505306512 01/31/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5353292

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| SALIM BOUTAMI | 01/21/2019 |
| MATHIEU DUPOY | 01/21/2019 |
| BORIS TAUREL | 01/21/2019 |

RECEIVING PARTY DATA

| Name: | COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES |
|-----------------|--|
| Street Address: | 25 RUE LEBLANC BAT LE PONANT |
| City: | PARIS |
| State/Country: | FRANCE |
| Postal Code: | 75015 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16322254 |

CORRESPONDENCE DATA

Fax Number: (703)413-2220

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (703) 413-3000 Email: astepina@oblon.com **Correspondent Name:** OBLON, ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 519640US |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | ANALIZA STEPINA |
| SIGNATURE: | /Analiza Stepina/ |
| DATE SIGNED: | 01/31/2019 |

Total Attachments: 3

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> **PATENT REEL: 048205 FRAME: 0132** 505306512

Signature:

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| Title of Invention | ABSORPTION CAVITY WITH ENTRANCE AND EXIT WAS BIOLOGICAL SENSOR | AVEGUIDES FOR A CHEMICAL OR | |
|---|--|-------------------------------------|--|
| As the below name | d inventor, I hereby declare that: | | |
| This declaration | The attached application, or | | |
| is directed to: | is directed to: United States application or PCT international application number PCT/FR2017/052174 filed on August 3 , 2017 . | | |
| The above-identifie | ed application was made or authorized to be made by me | ». | |
| I believe that I am t | the original inventor or an original joint inventor of a cla | nimed invention in the application. | |
| WHEREAS. COM | <u>MISSARIAT A L'ENERGIE ATOMIQUE ET AUX EN</u> | VERGIES ALTERNATIVES | |
| (hereinafter referred to as "ASSIGNEE") having a place of business at: 25 rue Leblanc Bat le Ponant 75015 Paris FRANCE is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; | | | |
| NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. | | | |
| I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. | | | |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | | | |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | | | |
| LEGAL NAME OF INVENTOR | | | |
| Inventor: BOUTA | MI. Salim | Date: January 21, 2019 | |
| ************************************** | | | |
| | | | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 048205 FRAME: 0133 Title of

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| A promote to the same | Invention | BIOLOGICAL SENSOR | AVEGUIDES FOR A CHEMICAL OR |
|--|---|--|-------------------------------------|
| A (a) (constant | As the below named inventor, I hereby declare that: | | |
| | This declaration | The attached application, or | |
| | is directed to: | United States application or PCT international applicate filed on August 3, 2017 | ion number <u>PCT/FR2017/052174</u> |
| - | The above-identifie | d application was made or authorized to be made by me |). |
| | I believe that I am t | he original inventor or an original joint inventor of a cla | timed invention in the application. |
| Section of section 200 | WHEREAS COM | MISSARIAT A L'ENERGIE ATOMIQUE ET AUX EN | VERGIES ALTERNATIVES |
| CONTRACTOR TO STOCK TO STOCK S | (hereinafter referred to as "ASSIGNEE") having a place of business at: 25 rue Leblanc Bat le Ponant 75015 Paris <u>FRANCE</u> is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries: | | |
| CONTRACTOR | NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. | | |
| والمراجعة والمستوارة والمراجعة والمتالية والمتالية والمستوارة والمستوارة والمتالية والمتالية والمتالية والمتالية | I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. | | |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | | | |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | | | |
| - | LEGAL NAME OF | INVENTOR | _ |
| Inventor: DUPOY, Mathieu Date: January 21, | | Date: | |
| PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY. | Signature: | | |
| | Character contractions | | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 048205 FRAME: 0134

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| Title of Invention | ABSORPTION CAVITY WITH ENTRANCE AND EXIT BIOLOGICAL SENSOR | WAVEGUIDES FOR A CHEMICAL OR | |
|---|---|--|--|
| As the below name | As the below named inventor, I hereby declare that: | | |
| This declaration | The attached application, or | | |
| | | | |
| The above-identific | ed application was made or authorized to be made by | me. | |
| I believe that I am | the original inventor or an original joint inventor of a | claimed invention in the application. | |
| WHEREAS COM | MISSARIAT A L'ENERGIE ATOMIQUE ET AUX | ENERGIES ALTERNATIVES | |
| (hereinafter referr FRANCE is desired Patent that may be | (hereinafter referred to as "ASSIGNEE") having a place of business at: 25 me Leblanc Bat le Ponant 75015 Paris FRANCE is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign | | |
| NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereb acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unt said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possession and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territoric possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuation substitutions and renewals thereof. | | e United States and its territorial possessions the terms of the International Convention and and application) and the entire right, title and erefor in the United States and its territorial y and all divisions, reissues, continuations, | |
| I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions an any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, it (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully an entirely as the same would have been held by me had this Assignment and sale not been made. | | e sole use and behoof of said ASSIGNEE, its d Letters Patent may be granted, as fully and and sale not been made. | |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any an all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everythin possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | | | |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR | | | |
| | | T 01 0010 | |
| Inventor: TAURI | | Date: | |
| Signature: | counted. | | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
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ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 048205 FRAME: 0135

RECORDED: 01/31/2019