506642351 05/03/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6689161

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| MARIEM MSAKNI MALOUCHE | 03/12/2019 |
| JANVIER LECOMTE | 01/06/2020 |
| MICKAEL RANCIC | 01/06/2020 |
| NICOLAS STEIN | 01/06/2020 |
| CLOTILDE BOULANGER | 01/06/2020 |

RECEIVING PARTY DATA

| SAFRAN AIRCRAFT ENGINES |
|--|
| 2 BOULEVARD DU GÉNÉRAL MARTIAL VALIN |
| PARIS |
| FRANCE |
| 75015 |
| CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE |
| 3, RUE MICHEL ANGE |
| PARIS |
| FRANCE |
| 75016 |
| UNIVERSITE DE LORRAINE |
| 34 COURS LÉOPOLD CS 25233 |
| NANCY CEDEX |
| FRANCE |
| 54052 |
| |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17290945 |

CORRESPONDENCE DATA

Fax Number: (703)770-7901

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: 703-770-7900

Email: maggie.barham@pillsburylaw.com

Correspondent Name: PILLSBURY WINTHROP SHAW PITTMAN, LLP

Address Line 1: PO BOX 10500

Address Line 4: MCLEAN, VIRGINIA 22102

| ATTORNEY DOCKET NUMBER: | 012350-0561160 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | MARGARET BARHAM |
| SIGNATURE: | /Margaret Barham/ |
| DATE SIGNED: | 05/03/2021 |

Total Attachments: 5

source=012350-0561160_Declaration_Assignment#page1.tif source=012350-0561160_Declaration_Assignment#page2.tif source=012350-0561160_Declaration_Assignment#page3.tif source=012350-0561160_Declaration_Assignment#page4.tif source=012350-0561160_Declaration_Assignment#page5.tif

Worldwide Assignment & US Declaration (37 CFR 1.63) for utility or design application using an application data sheet (37 CFR 1.76)

As a below named inventor, I hereby declare that, I

| Inventor Name Complete Address | ```` |
|---|------|
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| inventor Name Complete Address | |
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| MSAKNI MALOUCHE, Mariem c/o SAFRAN AIRCRAFT ENGINES PI (AJI), Rond-Point René Ravaud-Réau 77550 MOISSY-CRAMAYEL FRANC | |
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| | |
| | |

(Hereinafter referred to as the Assignor) have made an invention entitled:

| ELECTROLYTE FOR ELECTROCHEMICAL MACHINING OF y-y" NICKEL-BASED SUPERALLOYS | |
|--|--|
| | |
| Title of Invention (in French) | |
| | |

for which an application for Letters Patent has been filed in the following country:

| Country Filing Date Serial Number | |
|-----------------------------------|--|
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The above-identified application(s) was/were 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.

AND, WHEREAS,

| Corporation Name | Complete Address |
|---|--|
| SAFRAN AIRCRAFT ENGINES | 2 Boulevard Du General Martial Valin 75015 Paris France |
| CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE | 3, Rue Michel Ange, 75016 Paris, France |
| UNIVERSITE DE LORRAINE | Universite De Lorraine34 Cours Leopold54052 Nancy - France, 54052, Nancy Cedex, France |
| | |

(Hereinafter referred to as the Assignee(s)) is/are desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the aforementioned applications for Letters Patent on this invention and the Letters Patent to be issued upon these applications;

NOW THEREFORE, be it known that for and in consideration of One EURO (€1.00) and other good and valuable consideration, the receipt and sufficiency of which from the Assignee[s] is hereby acknowledged, by these presents, I, the Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer and set over unto the Assignee[s], its/their lawful successors and assigns, my entire right, title, and interest in and to this invention and these applications, and all divisions, and continuations thereof, and all Letters Patent that may be granted thereon, and all reissues thereof, and all rights to claim priority on these of such applications, and all applications for Letters Patent that may hereafter be filed for this invention in any country and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioners of Patents (or other appropriate official whose duty is to issue patents) of the United States, Canada, and any other country, to issue Letters Patent for this invention to the Assignmen(s), its/their successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will communicate with the Assignee[s], its/their successors and assigns, any facts known to me respecting this invention, testify in any legal proceedings, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee[s], its/their successors or assigns, execute all divisional, continuation, reissue, and re-examination applications, make all rightful oaths and generally do everything possible to aid the Assignee[s], its/their successors and assigns, to obtain and enforce proper patent protection for this invention in any country, it being understood that, irrespective of whether I am in the employ of the Assignee[s] or its/their affiliates, any expense incident to the performance of the obligations of the present paragraph shall be borne by the Assignee[s], its/their successors, and assigns.

This Assignment agreement is effective as of the earliest filing date mentioned above.

AND, I/WE 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.

IN TESTIMONY WHEREOF, I HAVE SIGNED:

| Date Place | inventor Name & Signature | Witness Name & Signature |
|-------------------|--|--------------------------|
| 03/12/19 Corbeil- | MSAKNI MALO CHE, Mariem | JELENIE COTINGT |
| · ' / | - Latina - L | |
| = SSown | 10 -1 | |

Worldwide Assignment & US Declaration (37 CFR 1.63) for utility or design application using an application data sheet (37 CFR 1.76)

As a below named inventor, i hereby declare that, i

| inventor Name | Translate 2 dayses |
|------------------|--|
| | compress Auditess (/o SAFRAN AIRCRAFT ENGINES PL/A II) Rond-Point René Revaud-Réau 77550 MOISSY-CRAMAYFL ERANCE |
| LECOMTE, Janvier | c/o SAFRAN AIRCRAFT ENGINES PI (AJI), Rond-Point René Ravaud-Réau 77550 MOISSY-CRAMAYEL FRANCE |

(Hereinafter referred to as the Assignor) have made an invention entitled:

| Title of Invention (in English) | |
|---|--|
| ELECTROLYTE FOR ELECTROCHEMICAL MACHINING OF γ-γ'' NICKEL-BASED SUPERALLOYS | |
| Title of Invention (in French) | |
| | |
| | |

for which an application for Letters Patent has been filed in the following country:

| COURTRY | Filing Date | Serial Number |
|---------|-------------|---------------|
| France | 12/17/2018 | 18 73039 |
| | | |

The above-identified application(s) was/were 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.

AND, WHEREAS,

| Corporation Name | Complete Address |
|---|--|
| SAFRAN AIRCRAFT ENGINES | 2 Boulevard Du General Martial Valin 75015 Paris France |
| CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE | 3, Rue Michel Ange, 75016 Paris, France |
| UNIVERSITE DE LORRAINE | Universite De Lorraine34 Cours Leopold54052 Nancy - France, 54052, Nancy Cedex, France |

(Hereinafter referred to as the Assignee[s]) is/are desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the aforementioned applications for Letters Patent on this invention and the Letters Patent to be issued upon these applications;

NOW THEREFORE, be it known that for and in consideration of One EURO (€1.00) and other good and valuable consideration, the receipt and sufficiency of which from the Assignee[s] is hereby acknowledged, by these presents, I, the Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer and set over unto the Assignee[s], its/their lawful successors and assigns, my entire right, title, and interest in and to this invention and these applications, and all divisions, and continuations thereof, and all Letters Patent that may be granted thereon, and all reissues thereof, and all rights to claim priority on these of such applications, and all applications for Letters Patent that may hereafter be filed for this invention in any country and all Letters Patent that may be granted on this invention in any country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioners of Patents (or other appropriate official whose duty is to issue patents) of the United States, Canada, and any other country, to issue Letters Patent for this invention to the Assignee[s], its/their successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will communicate with the Assignee[s], its/their successors and assigns, any facts known to me respecting this invention, testify in any legal proceedings, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee[s], its/their successors or assigns, execute all divisional, continuation, reissue, and re-examination applications, make all rightful oaths and generally do everything possible to aid the Assignee[s], its/their successors and assigns, to obtain and enforce proper patent protection for this invention in any country, it being understood that, irrespective of whether I am in the employ of the Assignee[s] or its/their affiliates, any expense incident to the performance of the obligations of the present paragraph shall be borne by the Assignee[s], its/their successors, and assigns.

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IN TESTIMONY WHEREOF, I HAVE SIGNED:

| Date | Place | inventor Name & Signature | Witness Name & Signature |
|-----------------|--------|---------------------------|---------------------------|
| January 6, 2020 | Gabeil | LECOMTE, Janvier | norancht, Amalie Genevies |

Worldwide Assignment & US Declaration (37 CFR 1.63) for utility or design application using an application data sheet (37 CFR 1.76)

As a below named inventor, I hereby declare that, I

| inventor Name | Complete Address | |
|-----------------|---|---|
| RANCIC, Mickael | c/o SAFRAN AIRCRAFT ENGINES PI (AJI), Rond-Point René R | avaud-Réau 77550 MOISSY-CRAMAYEL FRANCE |

(Hereinafter referred to as the Assignor) have made an invention entitled:

| ELECTROLYTE FOR ELECTROCHEMICAL MACHINING OF γ-γ" NICKEL-BASED SUPERALLOYS Title of Invention (in French) | Title of Invention (in English) | | | | |
|--|---------------------------------|---|------|---|--|
| Title of Invention (in French) | | | | | |
| Title of Invention (in French) | 22 | · · | | 000007000000000000000000000000000000000 | |
| | Title of Invention (in French) | | | | |
| | | *************************************** | | | |

for which an application for Letters Patent has been filed in the following country:

| Country | Filing Date | Serial Number | ì |
|---------|-------------|---------------|-----|
| France | 12/17/2018 | 18 73039 | - |
| | | | · · |

The above-identified application(s) was/were 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.

AND, WHEREAS,

| Corporation Name | Complete Address |
|---|--|
| SAFRAN AIRCRAFT ENGINES | 2 Boulevard Du General Martial Valin 75015 Paris France |
| CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE | 3, Rue Michel Ange, 75016 Paris, France |
| UNIVERSITE DE LORRAINE | Universite De Lorraine34 Cours Leopold54052 Nancy - France, 54052, Nancy Cedex, France |
| | |

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NOW THEREFORE, be it known that for and in consideration of One EURO (€1.00) and other good and valuable consideration, the receipt and sufficiency of which from the Assignee[s] is hereby acknowledged, by these presents, I, the Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer and set over unto the Assignee[s], its/their lawful successors and assigns, my entire right, title, and interest in and to this invention and these applications, and all divisions, and continuations thereof, and all Letters Patent that may be granted thereon, and all reissues thereof, and all rights to claim priority on these of such applications, and all applications for Letters Patent that may hereafter be filled for this invention in any country and all Letters Patent that may be granted on this invention in any country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioners of Patents (or other appropriate official whose duty is to issue patents) of the United States, Canada, and any other country, to issue Letters Patent for this invention to the Assignee[s], its/their successors and assigns, in accordance with the terms of this Assignment;

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IN TESTIMONY WHEREOF, I HAVE SIGNED:

| - | Date | Place | inventor Nome & Signature | Witness Name & Signature |
|--------|-----------------|--------------|---------------------------|--------------------------------|
| ****** | January 6, 2020 | Eury-corberl | | BREITTMAYER, ELLIOTT ARCHIBALD |
| | | U | | |

Worldwide Assignment & US Declaration (37 CFR 1.63) for utility or design application using an application data sheet (37 CFR 1.76)

As a below named inventor, I hereby declare that, I

| inventor Name | Complete Address |
|----------------|-----------------------------------|
| STEIN, Nicolas | 10 rue Lançon, 57000 METZ, FRANCE |

(Hereinafter referred to as the Assignor) have made an invention entitled:

| Title of Invention (in English) | | | ******************* | |
|---------------------------------|----------------------|-------------------------------------|---------------------|---|
| ELECTROLYTE FOR ELECT | | | | : |
| Title of Invention (in French) | | - No | | |
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| <u> </u> | 99999 Januara (1995) | garana ana arawana arana aranggogo. | | |

for which an application for Letters Patent has been filed in the following country:

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|---|---------|-------------|---------------|
| 1 | France | 12/17/2018 | 18 73039 |
| | | | |

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| | |

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IN TESTIMONY WHEREOF, I HAVE SIGNED:

| Date | | inventor Name & Signature | Witness Name & Signature |
|---|-------|---------------------------|--------------------------|
| January 6, 2020 | MFT2 | STEIN, Nicolas | COMEL, Julia |
| | 116,5 | // | |
| | | //(2 | |
| *************************************** | | | |

Worldwide Assignment & US Declaration (37 CFR 1.63) for utility or design application using an application data sheet (37 CFR 1.76)

As a below named inventor, I hereby declare that, I

| inventor Name Complete Address | | |
|---|--------------------|---|
| L | ventor Name | Complete Address |
| BOULANGER, Clotilde 14 rue du Cimetière, 57420 COIN LES CUVRY, FRANCE | OULANGER, Clotilde | 14 rue du Cimetière, 57420 COIN LES CUVRY, FRANCE |

(Hereinafter referred to as the Assignor) have made an invention entitled:

| Title of I | Invention (in English) |
|------------|---|
| ELECTI | ROLYTE FOR ELECTROCHEMICAL MACHINING OF γ-γ" NICKEL-BASED SUPERALLOYS |
| | nvention (in French) |
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| France | 12/17/2018 | 18 73039 |
| | 8 | |

The above-identified application(s) was/were 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.

AND, WHEREAS,

| Corporation Name | Complete Address |
|---|--|
| SAFRAN AIRCRAFT ENGINES | 2 Boulevard Du General Martial Valin 75015 Paris France |
| CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE | 3, Rue Michel Ange, 75016 Paris, France |
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AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will communicate with the Assignee[s], its/their successors and assigns, any facts known to me respecting this invention, testify in any legal proceedings, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee[s], its/their successors or assigns, execute all divisional, continuation, reissue, and re-examination applications, make all rightful oaths and generally do everything possible to aid the Assignee[s], its/their successors and assigns, to obtain and enforce proper patent protection for this invention in any country, it being understood that, irrespective of whether I am in the employ of the Assignee[s] or its/their affiliates, any expense incident to the performance of the obligations of the present paragraph shall be borne by the Assignee[s], its/their successors, and assigns.

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IN TESTIMONY WHEREOF I HAVE SIGNED.

| Date | Place | inventor Name & Signature | Witness Name & Signature | | |
|-----------------|-------|---------------------------|--------------------------|--|--|
| January 6, 2020 | | BOULANGER, Clotilde | MEUX Eric 27 | | |
| | MET2 | 3 | 1/em | | |
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