503058771 11/12/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

NEW ASSIGNMENT

EPAS ID: PAT3105373

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| YANN MARCHAL | 06/10/2013 |
| MATTHIEU GIMAT | 05/21/2013 |
| DOMINIQUE COUPE | 05/15/2013 |
| BRUNO DAMBRINE | 10/21/2014 |

RECEIVING PARTY DATA

| Name: | SNECMA |
|-----------------|---------------------------------------|
| Street Address: | 2, BOULEVARD DU GENERAL MARTIAL VALIN |
| City: | PARIS |
| State/Country: | FRANCE |
| Postal Code: | 75015 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14397052 |

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:mkassaye@oblon.comCorrespondent Name:OBLON, SPIVAK, ET AL.Address Line 1:1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | BER: 443307US41PCTASSIGNMENT | |
|-------------------------|--|--|
| NAME OF SUBMITTER: | MESFIN KASSAYE | |
| SIGNATURE: | /Mesfin Kassaye/ | |
| DATE SIGNED: | 11/12/2014 | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 4

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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 |
|---------------|--|
| MARCHAL Yann | 3 Rue saint Jacques 77000 MELUN FRANCE |

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

| Title of Invention (in French) | |
|--|---|
| EBAUCHE FIBREUSE TISSEE EN UNE SEULE PIECE PAR TISSAGE TRIDIMENSIONNEL POUR LA REALISATION D'UNE PLATE-FORME A CAISSON FERME POUR SOUFFLANTE DE TURBOMACHINE EN MATERIAU COMPOSITE | i |
| Title of Invention (in English) | |
| The Of Inventori (in English) | |
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for which an application for Letters Patent has been filed in the following country:

| Country | Filing Date | Serial Number |
|---------|-------------|---------------|
| FRANCE | APR-26-2012 | 1253881 |
| | | |

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 | |
|------------------|--|--|
| SNECMA | SNECMA 2 Boulevard du Général Martial Valin 75015 PARIS 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.

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 F | Place | Inventor Name & Signature | Witness Name & Signature |
|-----------|-------|---------------------------|--------------------------|
| SOUS COTH | REAU | YANN MARCHAR | Lydie Schnell Schnell |

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 |
|----------------|---|
| GIMAT Matthieu | 366C Broad Street, 03801 PORTSMOUTH ETATS UNIS D'AMERIQUE |

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

| Title of Invention (in French) | |
|---|---|
| EBAUCHE FIBREUSE TISSEE EN UNE SEULE PIECE PAR TISSAGE TRID SOUFFLANTE DE TURBOMACHINE EN MATERIAU COMPOSITE | IMENSIONNEL POUR LA REAUSATION D'UNE PLATE-FORME A CAISSON FERME POUR |
| Title of Invention (in English) | |
| nae of mention (ar english) | |
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| | |

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

| Country | Filing Date | Serial Number | |
|---------|-------------|--|---|
| FRANCE | APR-26-2012 | 1253881 | - |
| | | A CONTRACTOR OF THE CONTRACTOR | |

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 |
|------------------|--|
| SNECMA | SNECMA 2 Boulevard du Géneral Martial Valin 75015 PARIS 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 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;

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 | |
|-----------------|--------------|---------------------------|--------------------------|--|
| Tlay 2151, 2013 | Rochasto, NH | Nathier Ginar ## | Jerany HELLO | |

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 |
|-----------------|--|
| COUPE Dominique | 70 avenue de Paris 33185 LE HAILLAN FRANCE |

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

| EBAUCHE FIBREUSE TISSEE EN UNE SEULE PIECE PAR TISSAGE TRIDIMENSIONNEL POUR LA REALISATION D'UNE PLATE-FORME À CAISSON FERME POUR SOLIFFIANTE DE TURBOMACHINE EN MATERIAU COMPOSITE | Title of Invention (in French) | |
|---|---|---|
| | EBAUCHE FIBREUSE TISSEE EN UNE SEULE PIECE PAR TISSAGE TRIDIMEN SOUFFLANTE DE TURBOMACHINE EN MATERIAU COMPOSITE | VSIONNEL POUR LA REALISATION D'UNE PLATE-FORME A CAISSON FERME POUR |
| Title of Invention (in English) | Title of Invention (in English) | |
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for which an application for Letters Patent has been filed in the following country:

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| FRANCE | APR-26-2012 | 1253881 |
| | | |

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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 |
|------------------|--|
| SNECMA | SNECMA 2 Boulevard du Général Martial Valin 75015 PARIS FRANCE |
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| | |

(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 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;

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 | / / |
|---------------|------------|---------------------------|--------------------------|-----|
| May 15th 2013 | Villaroche | Dinger Corpe Pres | Chilife HENRIO | 1 |
| • | | | | 7 |

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 |
|----------------|--|
| DAMBRINE Bruno | 464, Allée Ninon de Lenclos 77820 LE CHATELET EN BRIE FRANCE |

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

| Title of Invention (in French) | |
|--|--|
| EBAUCHE FIBREUSE TISSEE EN UNE SEULE PIECE PAR TISSAGE TRIDIMENSIONNEL POUR LA REALISATION D'UNE PLATE-FORME A CAISSON FERME POUR SOUFFLANTE DE TURBOMACHINE EN MATERIAU COMPOSITE | |
| Title of Invention (in English) | |
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| SNECMA | SNECMA 2 Boulevard du Général Martial Valin 75015 PARIS FRANCE |
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IN TESTIMONY WHEREOF, I HAVE SIGNED:

| Date | Place | Inventor Name & Signature | Witness Name & Signature |
|-----------------|------------|---------------------------|--------------------------|
| OCTOBER 21 2014 | VILLAROCHE | Bruno DAMBRINE | ydie SCHNELL Schnell |