# PATENT ASSIGNMENT COVER SHEET

# Electronic Version v1.1 Stylesheet Version v1.2

### EPAS ID: PAT2709488

502662880		i	REEL: 032115 FRAME: 0372	
Date:		02/03/2014	PATENT	
Signature:		/Mesfin Kassaye/		
NAME OF SUBMITTER:		MESFIN KASSAYE		
ATTORNEY DOCKET NUMBER:		426082US41		
Fax Number: Phone: Email: <i>Correspondence will b</i> Correspondent Name: Address Line 1: Address Line 4:	(703 mka b <i>e sent via US</i> : OBL 1940	)413-2220 ) 413-3000 ssaye@oblon.com <i>Mail when the email attempt is u</i> ON, SPIVAK, ET AL. ) DUKE STREET XANDRIA, VIRGINIA 22314	nsuccessful.	
CORRESPONDENCE	DATA			
Application Number: 14097		14097774		
PROPERTY NUMBER			Number	
Postal Code:	75015			
State/Country:	France			
City:	Paris			
Street Address:		Du General Martial Valin		
Name:	SNECMA			
RECEIVING PARTY D	DATA			
MATHIEU PERRIER			11/25/2013	
JULIEN MICHEL PAT	FRICK CHRIST	IAN AUSTRUY	11/22/2013	
OLIVIER BELMONTE			11/25/2013	
CONVEYING PARTY	DATA	Name	Execution Date	
		ASSIGNMENT		
	ON TYPE: NEW ASSIGNMENT			

Total Attachments: 3 source=426082US41ASSIGNMENT#page1.tif source=426082US41ASSIGNMENT#page2.tif source=426082US41ASSIGNMENT#page3.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
BELMONTE Olivier	50 Rue Louis Rodier 77930 PERTHES EN GATINAIS FRANCE

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

Title of Invention (in French)

GUIDAGE D'ARBRES DE TURBOMACHINE

Title of Invention (in English)

### **GUIDANCE OF TURBINE ENGINE SHAFTS**

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

Country	Filing Date	Serial Number
FRANCE	DEC-11-2012	1261859

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
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l l	

(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 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
November 25th	VILLAROCAL	BLINANTE OLIVICE	LAO FEREMY
2013			

PATENT REEL: 032115 FRAME: 0374

## 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 .		
AUSTRUY Julien, Michel, Patrick, Christian 6 rue de l'Ile de France 91330 YERRES FRANCE		
Hereinafter referred to as the Assignor) ha	ave made an invention e	ntitled:
Title of Invention (in French)	·····	
GUIDAGE D'ARBRES DE TURBOMACHINE		
Title of Invention (in English)		
GÜIDANCE OF TURBINE ENG	SINE SHAFTS	
or which an application for Letters Patent	has been filed in the fol	lowing country:
Country Fill	ng Date	Serial Number
FRANCE DE	C-11-2012	1261859

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
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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 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 successors, and assigns.

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IN TESTIMONY WHEREOF, I HAVE SIGNED:

Date	Place	Inventor Name & Signature	Witness Name & Signature
November 22nd 2013	rloissy Cramayel	Julien AUSTRU T	Rachiel EL AHMA OI

### PATENT REEL: 032115 FRAME: 0375

## 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
PERRIER Mathieu	19 Chemin Perrey 27500 MANNEVILLE SUR RISLE FRANCE

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

Title of Invention (in French)

GUIDAGE D'ARBRES DE TURBOMACHINE

Title of Invention (in English)

### **GUIDANCE OF TURBINE ENGINE SHAFTS**

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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
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;

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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 successors, and assigns.

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IN TESTIMONY WHEREOF, I HAVE SIGNED:

Date	Place	Inventor Name & Signature	Witness Name & Signature
Novem bor 25th	VILL AROCHE	PERRIER NATIFIEU	BELNONTE OLIVICE
2013		25	

### PATENT REEL: 032115 FRAME: 0376

### **RECORDED: 02/03/2014**