PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5965381

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARNAUD LASANTHA GENILIER	07/05/2018
FRANÇOIS PIERRE MICHEL COMTE	07/05/2018
FABIEN STÉPHANE GARNIER	07/05/2018
VINCENT FRANÇOIS GEORGES MILLIER	07/05/2018

RECEIVING PARTY DATA

Name:	SAFRAN AIRCRAFT ENGINES
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:	16623086

CORRESPONDENCE DATA

Fax Number:

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: 07209313000

jacqui.frey@lathropgpm.com, patent@lathropgpm.com, Email:

laura.sedlacek@lathropgpm.com

Correspondent Name: LATHROP GPM LLP

Address Line 1: 2440 JUNCTION PLACE, SUITE 300 Address Line 4: **BOULDER, COLORADO 80301**

ATTORNEY DOCKET NUMBER:	619215
NAME OF SUBMITTER:	JACQUI FREY
SIGNATURE:	/Jacqui Frey/
DATE SIGNED:	02/14/2020

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		
GENILIER, Arnaud Lasantha	c/o Səfran Aircraft Engli	es Pi (Ali), rond-Point René Ravaud – Réau 77550 MOISSY-CRAMAYEL FRANC	Æ
Hereinafter referred to as the Assignor)	have made an invention entitled:		
Title of Invention (in English)			
DEVICE FOR COOLING A	N ANNULAR OUTER TURBINE CASING		
Title of Invention (in French)			
or which an application for Letters Pater	it has been filed in the following coun	зу:	
Country	Filing Date	Serial Number	
France	06/15/2017	1755411	
The above-identified application(s) was/v	vere made or authorized to be made	ny 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
<u> </u>	

[Hereinafter referred to as the Assignee[s]] is/ere 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 Fatent 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 HEREST 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 destrable to perfect the title to this invention in said Assignee(s), its/their successors or assigns, execute all divisional, continuation, reissue, and reexamination applications, make all rightful daths 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	
,	07/05/2018	J. No. 20 A.C.	GENILIER, Amaud Lasantha	82900, <u>2</u> 2005 -{	
	***************************************	***************************************			3

Ref. SNM012278

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

Inventor Name	Complete Address	
COMTE, François Plerre Michel	c/o Safran Abstraft Engines PI (AB), rond-Point Bené Ravaud – Réau 77550 MOISSY-CRAMAYEL FRANCE	
Hereinafter referred to as the Assignor) I		Recently Land, Course Louis Course Vinnesses - colour & 2 made (MCN23), Colours (CT Editor)
	nave made an invention emisso.	
Title of invention (in English)		
DEVICE FOR COOL	ING AN ANNULAR OUTER TURBIN	E CARING
Title of invention (in French)		
or which an application for Letters Paten	t has been filed in the following cou	ntry:
Country	Filing Date	Serial Number
France	06/15/2017	1755411
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he above-identified appäcation(s) was/w believe that I am the original inventor or		
ne acove-wermined appacation(s) was/w believe that I am the original Inventor or NO, WHEREAS,		
believe that I am the original inventor or		
believe that I am the original inventor or NO, WHEREAS,	an original joint inventor of a claim Complete Address	
believe that I am the original inventor or .NO, WHEREAS, Corporation Name	an original joint inventor of a claim Complete Address	ed Invention in the application.
believe that I am the original inventor or .NO, WHEREAS, Corporation Name	an original joint inventor of a claim Complete Address	ed Invention in the application.
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believe that I am the original inventor or .NO, WHEREAS, Corporation Name	an original joint inventor of a claim Complete Address	ed Invention in the application.

(Nereinafter 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, it, he Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer and set over unto the Assignee(s), £8/their lawful successors and assigns, my entire right, this, and interest in and to this invention and these applications, and all divisions, and all continuations thereof, and all latters 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 auticrize 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 HERCBY 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 coverant 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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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:

Ì	Date	Place	Inventor Name & Signature	Witness Name & Signature
			COMTE, François Pierre Michel	Control Control
	07/05/2018			/
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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
GARNIER, Fablen Stéphane	c/o Safran Aircraft Engines Pt (Ait), 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)	
DEVICE FOR COOLING AN ANNULAR OUTER TURBINE	CASING
Title of invention (in French)	

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

Country	Filing Date	Serial Number
France	06/15/2017	1785411

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 SAFRAN AIRCRAFT ENGINES	Complete Address 2 Boulevard Du General 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 (ELIO) and other good and valuable consideration, the receipt and sufficiency of which from the Assignee(s) is hereby acknowledged, by these presents, i, the Assigner, 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 colim 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 covenient 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 as 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 paths 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:

1	Date	Place	inventor Name & Signature	Witness Name & Signature
		VI WAROUNE	GARNIER, Fabien Stéphane	BURAL, Sylvain-Yvas-Jeun
-	07/05 2018		4	_ 5 52
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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			
MittlER, Vincent François Georges	c/o Sairan Aircraft Engin	ies Pl (All), rond-Point René Rav	aud Réau 77550 MOSS	Y-CRAMAYEL FRANCE

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

Title of Invention (in English)					 	
DEVICE FOR C	OOLING AN ANNULA	R OUTER TURB	INE CASING			
Title of Invention (in French)			***************************************	 ***************************************		

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

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The above-identified application(s) was/were made or authorized to be made by me.

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Corporation Name	Complete Address
Safran Aircraft Engines	2 Boulevard Du General Martial Valin 75015 Paris France

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IN TESTIMONY WHEREOF, I HAVE SIGNED:

Date		Place	inventor Name & Signature	Witness Name & Signature
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PATENT REEL: 051825 FRAME: 0763

RECORDED: 02/14/2020