505339799 02/21/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5386581

		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY	ΔΤΑ		
		Name	Execution Date
BAPTISTE MARIE AUE	SIN PIERRI	E JOUY	02/01/2019
LAURENT CLAUDE DE	SCAMPS		02/01/2019
BERTRAND GUILLAUI	ME ROBIN	PELLATON	02/01/2019
LOIC FABIEN FRANCO	DIS VILLAF	łD	02/01/2019
RECEIVING PARTY D	АТА		
Name:		N AIRCRAFT ENGINES	
Street Address:	2 BOUL	EVARD DU GENERAL MARTIAL VALI	N
City:	PARIS		
State/Country:	FRANCE	Ē	
Postal Code:	75015		
Application Number:	1	6327170	
Property Type		Number	
CORRESPONDENCE	DATA		
	ſ	703\413-2220	
Fax Number:	•	703)413-2220 the e-mail address first; if that is uns	successful, it will be sent
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Fax Number: <i>Correspondence will i using a fax number, it</i> Phone:	be sent to provided;	<i>the e-mail address first; if that is uns</i> <i>; if that is unsuccessful, it will be sen</i> 703) 413-3000	
Fax Number: <i>Correspondence will a using a fax number, if</i> Phone: Email:	be sent to f provided; (s	<i>the e-mail address first; if that is uns</i> ; <i>if that is unsuccessful, it will be sen</i> 703) 413-3000 sarguijo@oblon.com	
Fax Number: <i>Correspondence will a using a fax number, it</i> Phone: Email: Correspondent Name	be sent to f provided; (s	<i>the e-mail address first; if that is uns</i> ; <i>if that is unsuccessful, it will be sen</i> 703) 413-3000 sarguijo@oblon.com OBLON, ET AL.	
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Fax Number: <i>Correspondence will a using a fax number, if</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4:	be sent to f provided; (s : C 1 A IUMBER:	the e-mail address first; if that is uns ; if that is unsuccessful, it will be sen 703) 413-3000 sarguijo@oblon.com DBLON, ET AL. 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314	
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Fax Number: <i>Correspondence will a using a fax number, if</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER	be sent to f provided; (s : C 1 A IUMBER:	the e-mail address first; if that is uns ; if that is unsuccessful, it will be sen 703) 413-3000 sarguijo@oblon.com OBLON, ET AL. 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 519483US SARAH ARGUIJO	
Fax Number: <i>Correspondence will a</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE:	be sent to f provided; (s : C 1 A IUMBER:	the e-mail address first; if that is uns ; if that is unsuccessful, it will be sen 703) 413-3000 sarguijo@oblon.com OBLON, ET AL. 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 519483US 519483US SARAH ARGUIJO /Sarah Arguijo/	
Fax Number: <i>Correspondence will a</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE: DATE SIGNED:	be sent to f provided; (s c 1 A IUMBER: :	the e-mail address first; if that is unsigned that is unsuccessful, it will be send 703) 413-3000 sarguijo@oblon.com OBLON, ET AL. 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 519483US 519483US SARAH ARGUIJO /Sarah Arguijo/ 02/21/2019	

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Ref. SNM011571

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
JOUY, Baptiste, Marie, Aubin, Pierre	c/o Safran Alreraft Engines Pi (All), rond-Point René Ravaud – Réau 77550 MOISSY-CRAMAYEL FRANCE
(Hereinafter referred to as the Assignor) have mas	
Title of Invention (in English)	
METHOD AND DEVICE FOR ADJU:	STING THE CLEARANCE BETWEEN A ROTOR AND A CONCENTRIC
STATOR OF AN AIRCRAFT TURB	INE ENGINE
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	08/30/2016	1658045	

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 Da General Martial Valin 75015 Paris France

(Hereinafter referred to as the Assignce(s)) is/are desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the work, 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 (E1:00) 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 emitter right, ittle, and interest in and to this invention and these applications, and all values, 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 be areaster be filed for this invention in any country and all Letters Patent that may be granted for this invention in any country and all Letters Patent that may be granted on this invention in any country, and all astensions, renewals, and relasses thereof; and all relevant 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, (HEREBY covenant that (have the full right to convey the interest assigned by this Assignment, and) 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], ht/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], ht/their successors or assigns, execute all deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee[s], by/their successors or assigns, execute all deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee[s], by/their successors or assigns, execute all deliver any and assigns, to obtain and examination applications, make all rightful oaths and generably do everything possible to ald 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 home by the Assignee[s], its/their successors, and assigns.

This Assignment agreement is affective 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:

Σ	
Pebruary 1st, 2019. Villanella JOUY, Baptiste, Marie, Aubin, Pierre LAM BE	57, Ottober Armund Fabian

Ref. SNM011571

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 Nome	Complete Address			****
DESCAMPS, Laurent, Claude	c/o Safran Alrcraft Engines PI (Ali),	rond Point René Ravaud -	Réau 77550 MOISSY-CRA	AMAYEL FRANCE

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

STATOR OF AN AIRC	RAFT TURBINE E	NGINE		
Title of Invention (in French)		******		

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

ŝ			
	Country	Filing Date	Serki Number
1000	France	08/30/2016	1658045

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 Parls France

(Hereinafter referred to as the Assignee(s)) is/are deskous 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 (£1.01) 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 iswful successors and assigns, my entitle right, title, and interest is and to this invention and these applications, and all divisions, and continuations thereof, and all letters Patent that may be granted thereon, and all relisues thereof, and all rights to claim priority on these of such applications, and all applications for Letters Patent that may be granted to first invention in any country and all letters Patent that may be granted on this invention in any country and all letters Patent that may be granted on this invention in any country and all letters Patent that may be reacter be filed for this invention in any country and all letters Patent that may be granted on this invention in any country and all entensions, renewals, and reissues thereof; and all needed and 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 civisional, continuation, reissue, and reexamination applications, make all rightful oaths and generally do everything passible to aid the Assignee[s], hs/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 ins/their affiliates, any expense incident to the performance of the obligations of the present paragraph shall be borne by the Assignee[s], hs/their successors, and assigns.

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

AND, L/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
February 1st, 2019		DESCAMPS, Laurent, Claude	LAMBERT, OPWile Armand Falin
	Villaroche		

PATENT REEL: 048399 FRAME: 0595

Ref. SNM011571

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,	l,	$\sim i$
inventor Name	Consider & Address	
PELLATON, Bertrand, Guillaume, Robin	c/o Safran Alteraft Engines PI (Al);, rond-Point René Ravaud Réau 77550 MOISSY-CRAMAY	EL FRANCE
(Hereinafter referred to as the Assignor) have mad	e en invention entitied:	
Title of Invention (in English)		

METHOD AND DEVICE FOR ADJUSTING THE CLEARANCE BETWEEN A ROTOR AND A CONCENTRIC STATOR OF AN AIRCRAFT TURBINE ENGINE TRie of Invention (in French)

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

Country	Filing Dote	Seriol Number	
France	08/30/2016	1658045	

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 Park France
	:	
0000000		

(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 security and in a splications;

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 Assigner, have sold, assigned, transferred, and set over, and do hereby soll, assign, transfer and set over units the Assignee[s], its/their lawful successors and assigns, my entire right, this, and interest in and to this invention and these applications, and all divisions, and continuetions thereof, and all Letters Patent that may be granted thereon, and all ressues thereof, and all letters Patent that may be granted thereon, and all ressues thereof, and all letters Patent that may be granted thereon, and all ressues thereof, and all extensions, renewals, and ressues thereof, and all extensions renewals, and ressues thereof, and all there of this invention in any country, and all extensions, renewals, and ressues thereof, and all extensioners 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 far this invention to the Assignee(s), its/their successors and essigns, in accordance with the terms of this Assignment;

AND, I MEREBY 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, relaxee, and reexamination applications, make all rightful caths 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 expanse 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:

in an	Dote	Place	inventor Name & Signature	Witness Name & Signature
and a second sec	Pebruary 1st, 2019	Boides	PELLATON, Bertrand, Guillaume, Robin	konmer, Cadi Willie
- 2	ça a ser			••••••••••••••••••••••••••••••••••••••

PATENT REEL: 048399 FRAME: 0596

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, t

Inventor Nome	Complete Address
VILLARD, Loïc, Fabien, François	C/o Safran Aircraft Engines PI (All), rond-Point René Ravaud-Réau 77550 MOISSY CRAMAYEL FRANCE

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

Tible of Invention (in English)									
METHOD AN	ND DEVICE	FOR ADJUST	ING THE	CLEARANCE	BETWEEN	A ROTOR A	ND A CONCE	NTRIC	
STATOR OF	7 AN AIRCE	AFT TURBIN	E ENGIN	Ē					
Title of Inventio	m (in French)								
								*******	·····

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

Country	Filing Date	Serial Number
France	08/30/2016	1658045

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,

Complete Address
2 Boulevard Du General Martial Valin 75015 Paris France

(Hereinafter referred to as the Assignce[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 fur and in consideration of One EURO (ELCO) 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 unbothe Assignee[s], its/their lawful successors and assigns, my entire right, title, and interest in and to this invention and these sophications, and all divisions, and continuations thereof, and all Letters Patent that may be granted thereon, and all relates thereof, and all rights to claim priority on these of such applications, and all applications for Letters Patent that may be granted thereof, and all relates Patent that may be granted for this invention in any country and all extensions, renewals, and relates thereof; and all cetters Patent that may be granted on this invention in any country, and all extensions, renewals, and relates thereof; and it needs 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, combination, reissue, and reexamination applications, make all rightful cettis and generally do everything possible to all 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], its/their successors, and assigns.

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

AND, I/WE HERERY 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
Pebruary 1st, 2019	Vikoche	VILLARD, Loïc, Fabien, François	Currien Tokis, Paris, Jehan

RECORDED: 02/21/2019