506344885 11/09/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6391639

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LUC BIANCHI	06/11/2020
HUGUES DENIS JOUBERT	06/11/2020
PHILIPPE PICOT	10/09/2020
AMAR SABOUNDJI	06/11/2020

RECEIVING PARTY DATA

Name:	SAFRAN
Street Address:	2 BOULEVARD DU GÉNÉRAL MARTIAL VALIN
City:	PARIS
State/Country:	FRANCE
Postal Code:	75015

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16753588	

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:	012350-0510920	
NAME OF SUBMITTER:	MARGARET BARHAM	
SIGNATURE:	/Margaret Barham/	
DATE SIGNED:	11/09/2020	

Total Attachments: 4

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PATENT 506344885 REEL: 054315 FRAME: 0474

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Ref. 8-020245

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	Complete Address		
BIANCHI, Luc	c/o Safran Aircraft En	c/o Safran Aircraft Engines PI (AJI), rond-Point René Ravaud — Réau 77550 MOISSY-CRAMAYEL FRANCE		
Hereinafter referred to as the Assi	gnor) have made an invention entitled:			
Title of invention (in English)				
COMPONENT PROTECTED	D BY AN ENVIRONMENTAL BARRII	ER		
Tible of the same for the LA				
Title of Invention (in French)				
or which an application for Letters	Patent has been filed in the following cou	intry:		
Country	Filing Date	Serial Number		
France	10/05/2017	1759326		

	was/were made or authorized to be made			
ND, WHEREAS, Corporation Name	Complete Address			
SAFRAN		il Martial Valin 75015 Paris France		

		000		
-				
-				
fereinafter referred to as the Assig	mee(s)) is/are desirous of securing the er	ntire right, title, and interest in and to this invention in all countries throughout the is invention and the Letters Patent to be issued upon these applications;		
now Therefore, be it ifficiency of which from the Assigni	known that for and in consideration of eefs] is hereby acknowledged, by these or	f One EURO (\leq 1.00) and other good and valuable consideration, the receipt and resents, t , the Assignor, have sold, assigned, transferred, and set over, and do hereby		
ell, assign, transfer and set over uni	to the Assignee[s], its/their lawful success	sors and assigns, my entire right, title, and interest in and to this invention and these		
iplications, and all divisions, and di fority on these of such applications	continuations thereof, and all Letters Pai s and all applications for letters Ratest th	tent that may be granted thereon, and all reissues thereof, and all rights to claim hat may hereafter be filed for this invention in any country and all Letters Patent that		
ay be granted on this invention in	any country, and all extensions, renewa	ils, and reissues thereof: and I hereby authorize and request the Commissioners of		
rtents (or other appropriate official	f whose duty is to issue patents) of the Un rs and assigns, in accordance with the terr	ifted States, Canada, and any other country, to Issue Letters Patent for this invention		
AND, I HEREBY covenant t	that I have the full right to convey the into	erest assigned by this Assignment, and I have not executed and will not execute any		
reement in conflict with this Assign	nment;			
AND, I HEREBY further co	evenant and agree that I will communic	ate 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 reexamination 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.

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
June 11, 2020	0.00 0	BIANCHI, Luc Patrice	MAUE, Andre provident
	- Katolleremit		
	bur.		

Ref. B-020245

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

	Complete Address			
IOUBERT, Hugues Danis	c/o Safran Aircraft E	c/o Safran Aircraft Engines PI (AII), rond-Point René Ravaud – Réau 77550 MOISSY-CRAMAYEL FRANCE		
fereinafter referred to as the Assigno	r) have made an invention entitled:			
Title of Invention (in English)				
COMPONENT PROTECTED BY	AN ENVIRONMENTAL BARRIE	R		
Title of Invention (in French)				
r which an application for Letters Pat	ent has been filed in the following co	nitry:		
Country	Filing Date	Serial Number		
France	10/05/2017	1759326		
elieve that I am the original inventor				
elieve that I am the original inventor ID, WHEREAS,	or an original joint inventor of a claim			
ne above-identified application(s) was, relieve that I am the original inventor ND, WHEREAS, Corporation Name SAFRAN	or an original joint inventor of a claim Complete Address			
elieve that I am the original inventor ID, WHEREAS, Corporation Name	or an original joint inventor of a claim Complete Address	ed invention in the application.		
elieve that I am the original inventor ID, WHEREAS, Corporation Name	or an original joint inventor of a claim Complete Address	ed invention in the application.		
elieve that I am the original inventor ID, WHEREAS, Corporation Name	or an original joint inventor of a claim Complete Address	ed invention in the application.		

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;

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

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 reexamination 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.

to the Assignee[s], its/their successors and assigns, in accordance with the terms of this Assignment:

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
June 11, 2020	Paris	JOUBERT, Hugues Denis	AGULLAR, Duto

Ref. 8-020245

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
PICOT, Philippe	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)	
COMPONENT PROTECTED BY AN EN	VIRONMENTAL BARRIER
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	10/05/2017	1759326

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	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 filled 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 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 live (5) years, or both.

IN TESTIMONY WHEREOF, I HAVE SIGNED:

Date	Place	inventor Name & Signature	Witness Name & Signature
October, 9 th 2020	Montereau	PICOT, Philippe	
		Stario Contraction of the start	8.0

Ref. B-020245

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
SABOUNDII, Amar	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)	
COMPONENT PROTECTED BY AN ENVIRONME	999.
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	10/05/2017	1759326

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
SAFRAN	2 Boulevard Du Général Martial Valin 75015 Paris France

(Flereinafter 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 self, 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 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	Place	inventor Name & Signature	Witness Name & Signature
June 11, 2020	Paris	SABOUNDII, Amar	AGUICAR JULA