## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6554112

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
MICHEL GILBERT ROLAND BRAULT	01/01/2019
JULIEN FABIEN PATRICK BECOULET	01/01/2019
ROMAIN GUILLAUME CUVILLIER	01/01/2019
ARNAUD NICOLAS NEGRI	01/01/2019

### **RECEIVING PARTY DATA**

Name:	SAFRAN AIRCRAFT ENGINES
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:	16956162

### **CORRESPONDENCE DATA**

**Fax Number:** (206)224-0779

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Phone: (206)682-8100 Email: efiling@cojk.com

Correspondent Name: MATTHEW D. BALINT, ESQ.

Address Line 1: CHRISTENSEN O'CONNOR JOHNSON KINDNESS

Address Line 2: 1201 THIRD AVENUE, SUITE 3600
Address Line 4: SEATTLE, WASHINGTON 98101-3029

ATTORNEY DOCKET NUMBER:	GVFR172182
NAME OF SUBMITTER:	BEBE BESCH
SIGNATURE:	/Bebe Besch/
DATE SIGNED:	02/16/2021

## **Total Attachments: 4**

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PATENT 506507336 REEL: 055275 FRAME: 0591

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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			
SRAULT, Mithel Gilbert Roland	c/o Safran Aircraft E	ngines Pi (AJI), rand-Po	int René Ravaud – Rásu 7.	7550 MOISSY-CRAMAYEL FRANCE

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

Title of invention (in English)

Dynamic sealing between two rotors of an aircraft turbomachine

Title of invention (in French)

Etanchéité dynamique entre deux rotors d'une turbomachine d'aéronef

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

	Country	Filling Date	Serial Rumber
200	France	12/22/2017	1763044

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 Martisi 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 (ELOO) 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), in/their lawful successors and assigns, my entire right, title, and interest in and to this invention and these applications, and all relations thereof, and all relations are continuations thereof, and all latters Patent that may be granted thereon, and all relations and all relations, and all relations, and all applications for Letters Patent that may hereafter be filed for this invention in any country and all extensions, renewals, and relatives thereof; and it 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), Na/their successors and assigns, in accordance with the terms of this Assignment;

AND, I HERESY covenant that I have the full right to convey the interest essigned 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 Assignes(s), its/their successors and assigns, any facts known to me respecting this invention, testify in any legal proceedings, sign all lewful 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 Assignes(s), its/their successors or assigns, execute all divisional, continuation, release, and re-examination applications, make all rightful caths and generally do everything possible to aid the Assignes(s), its/their successors and assigns, to obtain and emforce proper patent protection for this invention in any country, it being understood that, brespective of whether I am in the employ of the Assignes(s) or its/their sifflistes, any expense incident to the performance of the obligations of the present paragraph shall be borne by the Assignes(s), its/their successors, and assigns.

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

AND, (/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
		BRAULT, Michel Gilbert Roland	NEGRI, Arnoud Nicola
01/01/2019	REAU	<i>S2.44</i> /	

346.388.40.25.96

# 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, ! hereby declare that, !

Inventor Name	Complete Address		***************************************	******************	
BECOULET, Julien Fablen Patrick	c/o Safran Abroraft En	gines Pi (AJI), rond-Poir	it René Ravaud – Réai	77550 MOISSY-	Cramayel France

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

Dynamic sealing between two rotors of an aircraft turbomachine

Title of Invention (in French)

Etanchéité dynamique entre deux rotors d'une turbomachine d'aéronef

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

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	França	12/22/2017	1763044

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 Paris France
및 	
3	

(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, he it known that for and in consideration of One EURO (ELOO) 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 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 be granted on this invention in any country, and all extensions, renewels, 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 HERESY 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 MEMERY further covenant and agree that I will communicate with the Assignes(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 Assignes(s), its/their successors or assigns, execute all divisional, continuation, reissue, and respection applications, make all rightful oaths and generally do everything possible to aid the Assignes(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 Assignes(s) or its/their sufficient, any expense incident to the performance of the obligations of the present paragraph shall be borne by the Assignes(s), its/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
	88888888888888		BECOULET, Julien Fabien Patrick	
2000	01/01/2019	Ra.		
		, Sprendin		A Charle Commence
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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	Com	plete Address			***************************************
CUVILLIER, Romain Guillaume	s/o:	iafran Aircraft Engines Pi	(All), rond-Point René Rava	ud Réau 77550 MOIS	Sy-Cramayel France

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

Title of Invention (in English)

Dynamic sealing between two rotors of an aircraft turbomachine

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

Country		West Dexte	Serial Number
France	13	2/22/2017	1763044
		: 1	

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	Complete Address 2 Boulevard Du General Martial Valin 75015 Paris France
***************************************	

(Hareinafter 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 Latters 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 usto the Assignee(s), its/their lawful successors and assigns, my entire right, title, and interest in and to this invention and riesse applications, and all divisions, and continuations thereof, and all Letters Patent that may be gramted 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 extens Patent that may be gramted 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 HERESY coverant 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 HERESY further covenent 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, relaxue, and re-examination applications, make all rightful oaths and generally do everything possible to skil 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 & Slanature	Witness Name & Signature
01/01/2019	Récu	CUVILLIER, Romain Guillaume	NEGRI, Annaud Nicolan

[Xed] 5888-806-85, 867

# 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

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#### AND, WHEREAS,

Corperation Name	Complete Address
ment andre waterwards of the state that the	2 boulevard Cil General Martial Valla 75015 Paris France

(Hereinafter referred to as the Assignes(si) 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 THEREPORE, 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 acknowledges), 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), ks/their iswful 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 releases 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 releases 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:

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IN TESTIMONY WHEREOF, I HAVE SIGNED:

	7loce	Inventor Name & Signature	Witness Name & Signature
01/01/2019	REAU	NEGRI, Arnaud Musiky	BRAUCT NUMBER PORT RUMM

**PATENT** 

REEL: 055275 FRAME: 0596

RECORDED: 02/16/2021