

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AXEL BARRAU	07/04/2017
SILVERE BONNABEL	03/15/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAFRAN ELECTRONICS & DEFENSE
<b>Street Address:</b>	18/20 QUAI DU POINT DU JOUR
<b>City:</b>	BOULOGNE-BILLANCOURT
<b>State/Country:</b>	FRANCE
<b>Postal Code:</b>	92100
<b>Name:</b>	ASSOCIATION POUR LA RECHERCHE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS - A.R.M.I.N.E.S.
<b>Street Address:</b>	60, BOULEVARD SAINT-MICHEL
<b>City:</b>	PARIS
<b>State/Country:</b>	FRANCE
<b>Postal Code:</b>	75006
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15324255
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)888-7484
<i>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.</i>	
<b>Phone:</b>	404-872-7000
<b>Email:</b>	IPDocketing@wbd-us.com, nedy.calderon@wbd-us.com
<b>Correspondent Name:</b>	WOMBLE BOND DICKINSON (US) LLP ATTN: IP
<b>Address Line 1:</b>	P.O. BOX 7037
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30357-0037
<b>ATTORNEY DOCKET NUMBER:</b>	15675P1182
<b>NAME OF SUBMITTER:</b>	ERIC S HYMAN
<b>SIGNATURE:</b>	/eric s hyman/
<b>DATE SIGNED:</b>	06/18/2019

PATENT

	This document serves as an Oath/Declaration (37 CFR 1.63).
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**Total Attachments: 2**

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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

<i>Inventor Name</i>	<i>Complete Address</i>
BARRAU Axel	c/o SAFRAN ELECTRONICS & DEFENSE 18/20 Quai du Point du Jour 92100 BOULOGNE-BILLANCOURT FRANCE

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

<i>Title of Invention (in English)</i>
INVARIANT PARTICLE FILTER
<i>Title of Invention (in French)</i>
FILTRE PARTICULAIRE INVARIANT

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

<i>Country</i>	<i>Filing Date</i>	<i>Serial Number</i>
FRANCE	JUL-9 <sup>th</sup> -2014	1401535
PCT	JUL-9th-2015	PCT/EP2015/065769

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,

<i>Corporation Name</i>	<i>Complete Address</i>
Safran Electronics & Defense	18/20 Quai du Point du Jour 92100 BOULOGNE-BILLANCOURT FRANCE
ASSOCIATION POUR LA RECHERCHE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS - A.R.M.I.N.E.S.	60, boulevard Saint-Michel 75006 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 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 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:

<i>Date</i>	<i>Place</i>	<i>Inventor Name &amp; Signature</i>	<i>Witness Name &amp; Signature</i>
04 <sup>th</sup> July 2017	Nagay - la Hameau, Yvelines, FRANCE	BARRAU Axel	Axel Barrau François DUFRESNE de VIR Intellectual Property Director

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for utility or design application using an application data sheet (37 CFR 1.76)**

As a below named inventor, I hereby declare that, I

<i>Inventor Name</i>	<i>Complete Address</i>
BONNABEL Silvère	c/o SAFRAN ELECTRONICS & DEFENSE 18/20 Quai du Point du Jour 92100 BOULOGNE-BILLANCOURT FRANCE

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IN TESTIMONY WHEREOF, I HAVE SIGNED:

<i>Date</i>	<i>Place</i>	<i>Inventor Name &amp; Signature</i>	<i>Witness Name &amp; Signature</i>
15/03/2018	Paris France	BONNABEL Silvère 	J. LA COURIE 