

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Dominique COUPE</td> <td>12/21/2012</td> </tr> <tr> <td>Clement ROUSSILLE</td> <td>12/21/2012</td> </tr> <tr> <td>Jonathan GOERING</td> <td>11/09/2012</td> </tr> <tr> <td>Julien MATEO</td> <td>12/21/2012</td> </tr> <tr> <td>Nicolas EBERLING-FUX</td> <td>12/21/2012</td> </tr> <tr> <td>Guillaume RENON</td> <td>12/27/2012</td> </tr> <tr> <td>Antoine Jean-Philippe BEAUJARD</td> <td>12/27/2012</td> </tr> <tr> <td>Elric Georges Andre FREMONT</td> <td>12/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Dominique COUPE	12/21/2012	Clement ROUSSILLE	12/21/2012	Jonathan GOERING	11/09/2012	Julien MATEO	12/21/2012	Nicolas EBERLING-FUX	12/21/2012	Guillaume RENON	12/27/2012	Antoine Jean-Philippe BEAUJARD	12/27/2012	Elric Georges Andre FREMONT	12/21/2012
Name	Execution Date																		
Dominique COUPE	12/21/2012																		
Clement ROUSSILLE	12/21/2012																		
Jonathan GOERING	11/09/2012																		
Julien MATEO	12/21/2012																		
Nicolas EBERLING-FUX	12/21/2012																		
Guillaume RENON	12/27/2012																		
Antoine Jean-Philippe BEAUJARD	12/27/2012																		
Elric Georges Andre FREMONT	12/21/2012																		
RECEIVING PARTY DATA																			
<table border="1"> <tr> <td>Name:</td> <td>HERAKLES</td> </tr> <tr> <td>Street Address:</td> <td>Les Cinq Chemins, Rue de Touban</td> </tr> <tr> <td>City:</td> <td>Le Haillan</td> </tr> <tr> <td>State/Country:</td> <td>FRANCE</td> </tr> <tr> <td>Postal Code:</td> <td>33185</td> </tr> </table>		Name:	HERAKLES	Street Address:	Les Cinq Chemins, Rue de Touban	City:	Le Haillan	State/Country:	FRANCE	Postal Code:	33185								
Name:	HERAKLES																		
Street Address:	Les Cinq Chemins, Rue de Touban																		
City:	Le Haillan																		
State/Country:	FRANCE																		
Postal Code:	33185																		
<table border="1"> <tr> <td>Name:</td> <td>SNECMA</td> </tr> <tr> <td>Street Address:</td> <td>2 Boulevard du General Martial Valin</td> </tr> <tr> <td>City:</td> <td>Paris</td> </tr> <tr> <td>State/Country:</td> <td>FRANCE</td> </tr> <tr> <td>Postal Code:</td> <td>75015</td> </tr> </table>		Name:	SNECMA	Street Address:	2 Boulevard du General Martial Valin	City:	Paris	State/Country:	FRANCE	Postal Code:	75015								
Name:	SNECMA																		
Street Address:	2 Boulevard du General Martial Valin																		
City:	Paris																		
State/Country:	FRANCE																		
Postal Code:	75015																		
PROPERTY NUMBERS Total: 1																			
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13607341</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13607341														
Property Type	Number																		
Application Number:	13607341																		
CORRESPONDENCE DATA																			
Fax Number:	7034132220																		

OP \$40.00 13607341

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (703) 413-3000
Email: bpalmer@oblon.com
Correspondent Name: Oblon, Spivak, et al.
Address Line 1: 1940 Duke Street
Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	404508US41X CIP
-------------------------	-----------------

NAME OF SUBMITTER:	Brian Palmer
--------------------	--------------

Total Attachments: 6
source=404508USASSN#page1.tif
source=404508USASSN#page2.tif
source=404508USASSN#page3.tif
source=404508USASSN#page4.tif
source=404508USASSN#page5.tif
source=404508USASSN#page6.tif

404508US41XCIP

Assignment of Application

INVENTOR NAMES AND RESIDENCE ADDRESS OF INVENTORS:

WHEREAS, I (WE) Dominique COUPE of Le Haillan, France;
Clement ROUSSILLE of Bordeaux, France;
Jonathan GOERING of York, Maine, USA;
Julien MATEO of Carignan de Bordeaux, France;
Nicolas EBERLING-FUX of Talence, France;
Guillaume RENON of Vaux le Penil, France;
Antoine Jean-Philippe BEAUJARD of Moissy-Cramayel, France and
Elric Georges Andre FREMONT of Merignac, France

, respectively,

INVENTION TITLE:

have invented certain new and useful improvements in: COMPOSITE MATERIAL TURBOMACHINE ENGINE
BLADE OR VANE, COMPRESSOR STATOR SEGMENT OR TURBINE NOZZLE SEGMENT INCORPORATING
SUCH VANES AND METHOD FOR MANUFACTURING SAME

(Application No. 13/607,341, filed September 7, 2012), and

INVENTOR NAME AND ADDRESS OF COMPANY OR OTHER ASSIGNEE:

WHEREAS, 1) HERAKLES 2) SNECMA

(hereinafter referred to as "ASSIGNEE") having a place of business at: 1) Les Cinq Chemins, Rue de Touban, 33185 Le Haillan, France 2) 2 Boulevard du General Martial Valin 75015 Paris, France is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;


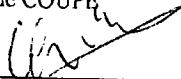
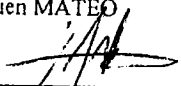
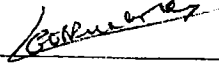

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

17/09

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEES or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: <u>12/21/2012</u>	 _____ (Signature of Inventor) Dominique COUPE
Date: <u>12/21/2012</u>	 _____ (Signature of Inventor) Clement ROUSSILLE
Date: _____	_____ (Signature of Inventor) Jonathan GOERING
Date: <u>12/21/2012</u>	_____ (Signature of Inventor) Julien MATEO
Date: <u>12/21/2012</u>	 _____ (Signature of Inventor) Nicolas EBERLING-FUX
Date: _____	 _____ (Signature of Inventor) Guillaume RENON
Date: _____	_____ (Signature of Inventor) Antoine Jean-Philippe BEAUJARD
Date: <u>12/21/2012</u>	 _____ (Signature of Inventor) Elric Georges Andre FREMONT

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

404508US41XC1P

Assignment of Application

INVENTOR NAMES
AND RESIDENCE
ADDRESSES OF
INVENTORS:

WHEREAS, I (WE) Dominique COUPE of Le Haillan, France;
Clement ROUSSILLE of Bordeaux, France;
Jonathan GOERING of York, Maine, USA;
Julien MATEO of Carignan de Bordeaux, France;
Nicolas EBERLING-FUX of Talence, France;
Guillaume RENON of Vaux le Penil, France;
Antoine Jean-Philippe BEAUJARD of Moissy-Cramayel, France and
Elric Georges Andre FREMONT of Merignac, France
 _____,
 _____,
 _____,
 _____,
 _____,
 _____,
 _____,
 _____,
 _____,
 _____,
 _____,
 _____,

INVENTOR TITLE OF
INVENTION:

have invented certain new and useful improvements in: COMPOSITE MATERIAL TURBOMACHINE ENGINE
BLADE OR VANE, COMPRESSOR STATOR SEGMENT OR TURBINE NOZZLE SEGMENT INCORPORATING
SUCH VANES AND METHOD FOR MANUFACTURING SAME

(Application No. 13/607,341, filed September 7, 2012), and

INVENTOR NAME
AND ADDRESS OF
FIRM OR
OTHER ASSIGNEE:

WHEREAS, 1) HERAKLES 2) SNECMA

 (hereinafter referred to as "ASSIGNEE") having a place of business at: 1) Les Cinq Chemins, Rue de Touban, 33185
Le Haillan, France 2) 2 Boulevard du General Martial Valin 75015 Paris, France is desirous of acquiring the entire
 right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the
 United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby
 acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer
 unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial
 possessions and in all foreign countries (including the right to claim priority under the terms of the International
 Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the
 entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and
 its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues,
 continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions
 and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the
 assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE,
 its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and
 entirely as the same would have been held by me (us) had this Assignment and sale not been made.

17/09

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEES or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: _____
 (Signature of Inventor) Dominique COUPE

Date: _____
 (Signature of Inventor) Clement ROUSSILLE

Date: 9/11/2012 _____
 (Signature of Inventor) Jonathan GOERING

Date: _____
 (Signature of Inventor) Julien MATEO

Date: _____
 (Signature of Inventor) Nicolas EBERLING-FUX

Date: _____
 (Signature of Inventor) Guillaume RENON

Date: _____
 (Signature of Inventor) Antoine Jean-Philippe BEAUJARD

Date: _____
 (Signature of Inventor) Elric Georges Andre FREMONT

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Assignment of Application

PART NAMES
 OF RESIDENCE
 ADDRESS OF
 THE INVENTORS:

WHEREAS, I (WE) Dominique COUPE of Le Haillan, France;
Clement ROUSSILLE of Bordeaux, France;
Jonathan GOERING of York, Maine, USA;
Julien MATEO of Carignan de Bordeaux, France;
Nicolas EBERLING-FUX of Talence, France;
Guillaume RENON of Vaux le Penil, France;
Antoine Jean-Philippe BEAUJARD of Moissy-Cramayel, France and
Elric Georges Andre FREMONT of Merignac, France

 _____, respectively,

PART TITLE OF
 INVENTION:

have invented certain new and useful improvements in: COMPOSITE MATERIAL TURBOMACHINE ENGINE
BLADE OR VANE, COMPRESSOR STATOR SEGMENT OR TURBINE NOZZLE SEGMENT INCORPORATING
SUCH VANES AND METHOD FOR MANUFACTURING SAME

 (Application No. 13/607,341, filed September 7, 2012), and

PART NAME
 OF ADDRESS OF
 COMPANY OR
 OTHER ASSIGNEE

WHEREAS, 1) HERAKLES 2) SNECMA

 (hereinafter referred to as "ASSIGNEE") having a place of business at: 1) Les Cinq Chemins, Rue de Touban, 33185
Le Haillan, France 2) 2 Boulevard du General Martial Valin 75015 Paris, France is desirous of acquiring the entire
 right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the
 United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby
 acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer
 unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial
 possessions and in all foreign countries (including the right to claim priority under the terms of the International
 Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the
 entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and
 its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues,
 continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions
 and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the
 assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE,
 its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and
 entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEES or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: _____

 (Signature of Inventor) Dominique COUPE

Date: _____

 (Signature of Inventor) Clement ROUSSILLE

Date: _____

 (Signature of Inventor) Jonathan GOERING

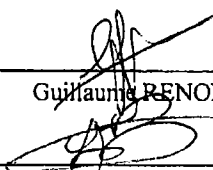
Date: _____

 (Signature of Inventor) Julien MATEO

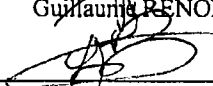
Date: _____

 (Signature of Inventor) Nicolas EBERLING-FUX

Date: 12/27/2012

 (Signature of Inventor)  Guillaume RENON

Date: 12/27/2012

 (Signature of Inventor)  Antoine Jean-Philippe BEAUJARD

Date: _____

 (Signature of Inventor) Elric Georges Andre FREMONT

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314