PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3509319

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CAROLINE MARY	03/26/2015
CHRISTOPHE CLUZEL	04/21/2015
RAUL FERNANDO DE MOURA PINHO	04/14/2015
ARNAUD LONGUET	03/31/2015
SYLVIE POMMIER	03/30/2015
FRANCOIS VOGEL	03/27/2015

RECEIVING PARTY DATA

Name:	SNECMA
Street Address:	2, Boulevard Du General Martial Valin
City:	Paris
State/Country:	France
Postal Code:	75015
Name:	TURBOMECA
Street Address:	-
City:	BORDES
State/Country:	FRANCE
Postal Code:	64510
Name:	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
Street Address:	3 RUE MICHEL ANGE
City:	PARIS
State/Country:	FRANCE
Postal Code:	75016
Name:	ECOLE NORMALE SUPERIEURE DE CACHAN
Street Address:	61 AVENUE DU PRESIDENT WILSON
City:	CACHAN
State/Country:	FRANCE
Postal Code:	94235

PROPERTY NUMBERS Total: 1

PATENT REEL: 036472 FRAME: 0837

503462693

Property Type	Number
Application Number:	14425999

CORRESPONDENCE DATA

Fax Number: (703)413-2220

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) 413-3000

Email: mvukovic@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	449793US41X PCT
NAME OF SUBMITTER:	MARA VUKOVIC
SIGNATURE:	/Mara Vukovic/
DATE SIGNED:	09/02/2015

Total Attachments: 12

source=449793USASSIGNMENT#page1.tif source=449793USASSIGNMENT#page2.tif source=449793USASSIGNMENT#page3.tif source=449793USASSIGNMENT#page4.tif source=449793USASSIGNMENT#page5.tif source=449793USASSIGNMENT#page6.tif source=449793USASSIGNMENT#page7.tif source=449793USASSIGNMENT#page8.tif source=449793USASSIGNMENT#page9.tif source=449793USASSIGNMENT#page10.tif source=449793USASSIGNMENT#page11.tif source=449793USASSIGNMENT#page11.tif source=449793USASSIGNMENT#page11.tif

PATENT REEL: 036472 FRAME: 0838

	WHEREAS I (WE)	1) Caroline MARY of: 10 rue Lam	blardie	Paris /3012, France	
Œ	W 1111(111)	2) Christophe CLUZEL of: 10 aven	ue du (Chateau, Ballainvilliers 91160, France	
s :				23Bis Rue Alphonse Karr Bat. Al, Paris	75019,
		France			
		4) Arnaud LONGUET of: 17, rue d	e Lorr	aine, Longjumeau 91160, France	
		5) Sylvie POMMIER of: 11 Avenue			
		6) François VOGEL of: 10 Lotissen			
			·		
				,	_, respectively,
	have invented certa	nin new and useful improvements in:	A ME	THOD OF DETERMINING THE NON-	
F	PROPAGATION '	THRESHOLD OF FATIGUE CRACI	KS AT	HIGH FREQUENCY	
	(Application No.	14/425,999	, filed	March 4, 2015), and
	WHEREAS,	1) SNECMA			
OF		2) TURBOMECA			
Æ		3) CENTRE NATIONAL DE LA RE			
		4) ECOLE NORMALE SUPERIEUR	RE DE	CACHAN	

(hereinafter referred to as "ASSIGNEES") having places of business at: 1) 2 Boulevard du General Martial Valin, Paris 75015, France; 2) Bordes 64510, France; 3) 3 rue Michel Ange, Paris 75016, France; 4) 61 avenue du President Wilson, Cachan 94235, France, respectively are desirous of jointly acquiring interests in 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 ASSIGNEES, 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 ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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.

07/09

PATENT REEL: 036472 FRAME: 0839

The undersigned hereby grant(s) the firm of Oblon, 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: 26/03/7015		Mean
Batt. 2 1021 (313	(Signature of Inventor)	Caroline MARY
Date:	(Signature of Inventor)	Christophe CLUZEL
Date:	(Signature of Inventor)	Raul Fernando DE MOURA PINHO
Date:	(Signature of Inventor)	Arnaud LONGUET
Date:	(Signature of Inventor)	Sylvie POMMIER
Date:		
	(Signature of Inventor)	François VOGEL

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

WHEREAS, I (W	E) 1) Caroline MARY of: 10 rue Lamblardie, Paris 75012, France	
	2) Christophe CLUZEL of: 10 avenue du Chateau, Ballainvilliers 91160, France	
	3) Raul Fernando DE MOURA PINHO of: 23Bis Rue Alphonse Karr Bat. A1, Paris	75019,
	France	
	4) Arnaud LONGUET of: 17, rue de Lorraine, Longjumeau 91160, France	
	5) Sylvie POMMIER of: 11 Avenue de la Providence, Antony 92160, France	
	6) Francois VOGEL of: 10 Lotissement Primevere, Ousse 64320, France	
		, respectively
have invented co	rtain new and useful improvements in: A METHOD OF DETERMINING THE NON-	, respectively
	rtain new and useful improvements in: <u>A METHOD OF DETERMINING THE NON-</u> I THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY	, respectively
	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY	, respectively
PROPAGATION	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY	
PROPAGATION (Application No.	1 THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY 14/425,999 , filed March 4, 2015	
PROPAGATION (Application No.	1 THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY 14/425,999 , filed March 4, 2015 1) SNECMA	

(hereinafter referred to as "ASSIGNEES") having places of business at: 1) 2 Boulevard du General Martial Valin, Paris 75015, France; 2) Bordes 64510, France; 3) 3 rue Michel Ange, Paris 75016, France; 4) 61 avenue du President Wilson, Cachan 94235, France, respectively are desirous of jointly acquiring interests in 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 ASSIGNEES, 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 ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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.

The undersigned hereby grant(s) the firm of Oblon, 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)	Caroline MARY
Date:	21 avril 2015	26.	
		(Signature of Inventor)	Christophe CLUZEL
Date:			
		(Signature of Inventor)	Raul Fernando DE MOURA PINHO
Date:			
		(Signature of Inventor)	Amaud LONGUET
Date:			
		(Signature of Inventor)	Sylvie POMMIER
Date:			
		(Signature of Inventor)	François VOGEL

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

	WILLIAM, I (WI	2) 1) Caroline MARY of: 10 rue Lamblardie, Paris 75012, France 2) Christophe CLUZEL of: 10 avenue du Chateau, Ballainvilliers 91160, France	
		3) Raul Fernando DE MOURA PINHO of: 23Bis Rue Alphonse Karr Bat. Al, Paris	75019.
		France	15001
		4) Arnaud LONGUET of: 17, rue de Lorraine, Longjumeau 91160, France	
		5) Sylvie POMMIER of: 11 Avenue de la Providence, Antony 92160, France	
		6) François VOGEL of: 10 Lotissement Primevere, Ousse 64320, France	
	<u> </u>		
			_, respectively
•		A METHOD OF DETERMINING THE NON-	
		tain new and useful improvements in: A METHOD OF DETERMINING THE NON-	
	PROPAGATION	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY	
	(Application No.	14/425,999 , filed March 4, 2015), and
	WHEREAS,	1) SNECMA	
	,	2) TURBOMECA	
		3) CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	

(hereinafter referred to as "ASSIGNEES") having places of business at: 1) 2 Boulevard du General Martial Valin, Paris 75015, France; 2) Bordes 64510, France; 3) 3 rue Michel Ange, Paris 75016, France; 4) 61 avenue du President Wilson, Cachan 94235, France, respectively are desirous of jointly acquiring interests in 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 ASSIGNEES, 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 ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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.

The undersigned hereby grant(s) the firm of Oblon, 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)	Caroline MARY
Date:		(Ol - stars of location)	Claire la CLUZCI
		(Signature of Inventor)	Christophe CLUZEL
	1. 1) with save	الرد أ	
Date:	April 14th, 2015	- Tunk	1 DELYCTION BONYO
	'	(Signature of Inventor)	Raul Fernando DE MOURA PINHO
Date:			
		(Signature of Inventor)	Arnaud LONGUET
Date:			
		(Signature of Inventor)	Sylvie POMMIER
Date:			
		(Signature of Inventor)	François VOGEL

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

1	WHEREAS, I (WE	(c) 1) Caroline MARY of: 10 rue Lamblardie, Paris 75012, France	
		2) Christophe CLUZEL of: 10 avenue du Chateau, Ballainvilliers 91160, France	
•		3) Raul Fernando DE MOURA PINHO of: 23Bis Rue Alphonse Karr Bat. A1, Paris	75019,
•		France	
•		4) Arnaud LONGUET of: 17, rue de Lorraine, Longjumeau 91160, France	
•		5) Sylvie POMMIER of: 11 Avenue de la Providence, Antony 92160, France	
•		6) François VOGEL of: 10 Lotissement Primevere, Ousse 64320, France	
•			
,			
			, respectively
-	Name in contrast non	tain new and useful improvements in: A METHOD OF DETERMINING THE NON-	
7	PROPAGATION	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY	
	(Application No.	71 1 NO 1 4 0015), and
	WHEREAS,	1) SNECMA	
Эř	·	2) TURBOMECA	
Œ		3) CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	
		4) ECOLE NORMALE SUPERIEURE DE CACHAN	

(hereinafter referred to as "ASSIGNEES") having places of business at: 1) 2 Boulevard du General Martial Valin, Paris 75015, France; 2) Bordes 64510, France; 3) 3 rue Michel Ange, Paris 75016, France; 4) 61 avenue du President Wilson, Cachan 94235, France, respectively are desirous of jointly acquiring interests in 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 ASSIGNEES, 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 ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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.

The undersigned hereby grant(s) the firm of Oblon, 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)	Caroline MARY
Date:	(Signature of Inventor)	Christophe CLUZEL
Date:	(Signature of Inventor)	Raul Fernando DE MOURA PINHO
Date: 3110317015	(Signaturo of Inventor)	Arnaud LONGUET
Date:	(Signature of Inventor)	Sylvie POMMIER
Date:	(Signature of Inventor)	Francois VOGEL

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

17	,		
V	HEREAS, I (WE	1) Caroline MARY of: 10 rue Lamblardie, Paris 75012, France	
	, ,	2) Christophe CLUZEL of: 10 avenue du Chateau, Ballainvilliers 91160, France	
-		3) Raul Fernando DE MOURA PINHO of: 23Bis Rue Alphonse Karr Bat. A1, Paris	75019,
-		France	
-		4) Arnaud LONGUET of: 17, rue de Lorraine, Longjumeau 91160, France	
-		5) Sylvie POMMIER of: 11 Avenue de la Providence, Antony 92160, France	
		6) Francois VOGEL of: 10 Lotissement Primevere, Ousse 64320, France	
_			
_			
_			
-			
-			
-			
-			, respectively,
-			, respectively,
-	have invented cer	rain new and useful improvements in: A METHOD OF DETERMINING THE NON-	, respectively,
-	have invented cer		
-	PROPAGATION	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY	, respectively,
-	PROPAGATION (Application No.	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY 14/425,999 , filed March 4, 2015	
-	PROPAGATION	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY 14/425,999 , filed March 4, 2015 1) SNECMA 2) TURBOMECA	
-	PROPAGATION (Application No.	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY 14/425,999 , filed March 4, 2015	

(hereinafter referred to as "ASSIGNEES") having places of business at: 1) 2 Boulevard du General Martial Valin, Paris 75015, France; 2) Bordes 64510, France; 3) 3 rue Michel Ange, Paris 75016, France; 4) 61 avenue du President Wilson, Cachan 94235, France, respectively are desirous of jointly acquiring interests in 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 ASSIGNEES, 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 ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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.

07/09

PATENT REEL: 036472 FRAME: 0847

The undersigned hereby grant(s) the firm of Oblon, 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)	Caroline MARY
Date:	•		
		(Signature of Inventor)	Christophe CLUZEL
Date:			
		(Signature of Inventor)	Raul Fernando DE MOURA PINHO
Date:			
•		(Signature of Inventor)	Arnaud LONGUET
	01/01/		
Date:	30 Yars 2015		
		(Signature of Involutor)	Sylvie POMMIER
)
Date:			<u></u>
Daw.		(Signature of Inventor)	François VOGEL

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

	WHEREAS, I (WE) 1) Caroline MARY of: 10 rue Lamblardie, Paris 75012, France	
ERT NAMES O RESIDENCE ORESS OF		2) Christophe CLUZEL of: 10 avenue du Chateau, Ballainvilliers 91160, France	
INVENTORS:		3) Raul Fernando DE MOURA PINHO of: 23Bis Rue Alphonse Karr Bat. Al, Paris	75019,
		France	
		4) Arnaud LONGUET of: 17, rue de Lorraine, Longjumeau 91160, France	
		5) Sylvie POMMIER of: 11 Avenue de la Providence, Antony 92160, France	
		6) Francois VOGEL of: 10 Lotissement Primevere, Ousse 64320, France	
			
			
			, respectively,
		tain new and useful improvements in: A METHOD OF DETERMINING THE NON-	
ERT TITLE OF /ENTION:	have invented cer	THRESHOLD OF FATIGUE CRACKS AT HIGH FREQUENCY	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PROPAGATION), and
	(Application No.	14/425,999 , filed March 4, 2015), and
	WHEREAS,	1) SNECMA	
ERT NAME	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2) TURBOMECA	
MPANY OR HER ASSIGNEE		3) CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	
		A ROOM RAYORMAN E STIDERTEURE DE CACHAN	

(hereinafter referred to as "ASSIGNEES") having places of business at: 1) 2 Boulevard du General Martial Valin, Paris 75015, France; 2) Bordes 64510, France; 3) 3 rue Michel Ange, Paris 75016, France; 4) 61 avenue du President Wilson, Cachan 94235, France, respectively are desirous of jointly acquiring interests in 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 ASSIGNEES, 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 ASSIGNEES as the assignees of my (our) entire right, title and interest in and to the same for the sole use and behoof of said ASSIGNEES, their 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 (1.5) had this Assignment and sale not been made.

The undersigned hereby grant(s) the firm of Oblon, 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.

VID A BRITTO
URA PINHO

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

07/09

RECORDED: 09/02/2015