## 503295941 05/07/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3342560

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Jean-Paul GARANDET	04/02/2015
Nicolas CHAINTREUIL	03/30/2015
Annalaura FASIELLO	03/30/2015
Eric PILAT	03/30/2015
Yannick VESCHETTI	03/27/2015

#### **RECEIVING PARTY DATA**

Name: COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES		
Street Address:	25 RUE LEBLANC	
Internal Address:	BÂTIMENT "LE PONANT D"	
City:	PARIS	
State/Country:	FRANCE	
Postal Code:	F-75015	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14425968

#### **CORRESPONDENCE DATA**

**Fax Number:** (703)836-2787

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: 703-836-6400 Email: email@oliff.com

Correspondent Name: JOEL S. ARMSTRONG

Address Line 1: OLIFF PLC
Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	165182
NAME OF SUBMITTER:	ANGELA M. NOLAN
SIGNATURE:	/Angela M. Nolan/
DATE SIGNED:	05/07/2015

PATENT 503295941 REEL: 035581 FRAME: 0841

This document serves as an Oath/Declaration (37 CFR 1.63). source=5.7.15 165182 Assignment#page1.tif source=5.7.15 165182 Assignment#page2.tif source=5.7.15 165182 Assignment#page3.tif source=5.7.15 165182 Assignment#page4.tif

source=5.7.15 165182 Assignment#page5.tif

**Total Attachments: 10** 

source=5.7.15 165182 Assignment#page6.tif

source=5.7.15 165182 Assignment#page7.tif

source=5.7.15 165182 Assignment#page8.tif

source=5.7.15 165182 Assignment#page9.tif

source=5.7.15 165182 Assignment#page10.tif

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

#### ASSIGNMENT

	Insert	(1)	Jean-Paul GARANDET	(	2)	Nicolas CHAINTREUIL
(1-8)	Legal Name(s)	(3)	Annalaura FASIELLO	(	4)	Eric PII.AT
	of Inventor(s)	(5)	Yannick VESCHETTI	(	6)	
		(7)		(	8)	
		the und	ideration of the sum of one ersigned, the receipt and sur and hereby does assign, trai	fficiency of which:	are l	er good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignee	(9)	COMMISSARIAT A L'EX	NERGIE ATOMIQ	UE	ET AUX ENERGIES ALTERNATIVES
(10)	Insert Address of Assignee	(10) 25 rue Leblanc, Bâţiment "Le Ponant D", F-75015 Paris, France				
		the enti- invention continu	re right, title and interest for on, and in all applications fo	the United States or patent including a te and reissue applicable.	of A my icati	eirs, successors, assigns and legal representatives, america as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, ion(s), and all Letters Patent, extensions, reissues invention known as
(11)	Insert Identification such as Title, Case	(11)	METHOD FOR MANUF	ACTURING A MC	NÇ	DLITHIC SILICON WAFER COMPRISING
	Number, or Foreign		MULTIPLE VERTICAL.	UNCTIONS		
	Application Number	(Attorn	ey Docket No. 165182		), t	iled on even date herewith or as
[12]	Alternative	(12) l	J.Ş. Application Number	14/425,968		
	filed applications	filed	March 7, 2015			

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignce may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or
- reexamination a grant of a valid United States patent to the Assignee.

  5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that 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.

#### Declaration

As an above named inventor, I hereby declare that;

l believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I 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.

Date	02/04115	Inventor Signature	OP. Gasandet	(SEAL)
Date		Iuventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
neither,	This assignment should preferably be sign then it should be signed before at least two	ed before: (a) a Notary Pub witnesses who also sign he	lic if within the U.S.A. (b) a U.S. Consul if outside there:	U.S.A, If
Date	02/04/2015	. Witness	GAN Septe	>
Date _	02/04/2015	Witness	SAMALLIE Labelle	De all

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

#### ASSIGNMENT

	Insert	(1)	Jean-Paul GARANDET		(2)	Nicolas CHAINTREUIL	
(1-8)	Legal Name(s)	(3)	Annalaura FASIELLO		(4)	Eric PILAT	
	of Inventor(s)	(5)	Yannick VESCHETTI		(6)		
		(7)			(8)		
		the un	sideration of the sum of one dersigned, the receipt and su , and hereby does assign, trat	fficiency of which	are l	or good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to	
(9)	Insert Name of Assignee	(9)	COMMISSARIAT A L'EI	NERGIE ATOMIC	)UE	ET AUX ENERGIES ALTERNATIVES	
(10)	Insert Address of Assignee	(10) 25 rue Leblanc, Bâtiment "Le Ponant D", F-75015 Paris, France					
		the ent inventi continu	are right, title and interest for ion, and in all applications fo	r the United States or patent including ite and reissue app	of A any licati	eirs, successors, assigns and legal representatives, america as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, ion(s), and all Letters Patent, extensions, reissues invention known as	
(11)	Insert Identification such as Title, Case	(11)	METHOD FOR MANUE	ACTURING A MO	ONC	OLITHIC SILICON WAFER COMPRISING	
	Number, or Foreign		MULTIPLE VERTICAL.	JUNCTIONS			
	Application Number	(Attori	ney Docket No. 165182		), f	iled on even date herewith or as	
(12)	Alternative Identification for	(12)	U.S. Application Number	14/425,968			
	filed applications	filed	March 7, 2015				

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

  2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be
- declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

  4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or
- reexamination a grant of a valid United States patent to the Assignee.

  5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that 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.

#### Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I 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.

Date	3=103/2015	Inventor Signatu	re <u>authul</u>	(SEAL)
Date		Inventor Signatu	re	(SEAL)
Date		. Inventor Signatu	re	(SEAL)
Date		Inventor Signatu	re	(SEAL)
Date		Inventor Signatu	re	(SEAL)
Date		Inventor Signatur	·e	(SEAL)
Date		Inventor Signatur	·e	(SEAL)
Date		Inventor Signatur	e	(SEAL)
ieither,	This assignment should preferably be sign- then it should be signed before at least two	ed before: (a) a Notary I witnesses who also sign	Public if within the U.S.A. (b) a U.S. Consul if outsic here:	le the U.S.A. If
)ate	30/03/2015	Witness	GH Splie (CS)	***************************************
ate _	30/03/2015	Witness	Sof MAILLE Mahalla ST	paulo

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

# ASSIGNMENT

	Insert	(1)	Jean-Paul GARANDET		(2)	Nicolas CHAINTREUIL
(1-8)	Legal Name(s)	(3)	Annalaura FASIELLO		(4)	Eric PILAT
	of Inventor(s)	(5)	Yannick VESCHETTI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(6)	
		(7)			(8)	
		the und	ideration of the sum of one d ersigned, the receipt and suff and hereby does assign, trans	ficiency of which	are h	good and valuable consideration paid to each of ereby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignce	(9)	COMMISSARIAT A L'EN	ERGIE ATOMI	QUEI	ET AUX ENERGIES ALTERNATIVES
(10)	Insert Address of Assignee	(10)	25 rue Leblanc, Bâtiment "	Le Ponant D", I	-750	15 Paris, France
		inventi	on, and in all applications for	the United States patent including and reissue ann	of Ar any a licatio	irs, successors, assigns and legal representatives, merica as defined in 35 U.S.C. §100, in the nd all provisional, non-provisional, divisional, on(s), and all Letters Patent, extensions, reissues execution known as
(11)	Insert Identification such as Tifle, Case	(11)	METHOD FOR MANUFA	CTURING A M	ONO	LITHIC SILICON WAFER COMPRISING
	Number, or Foreign		MULTIPLE VERTICAL JU			ATTER COMPRISING
	Application Number	(Attorn	ey Docket No. 165182		), fil	ed on even date herewith or as
(12)	Alternative		J.S. Application	1.4/40 = 0		
. ,	Identification for	Numbe	* ************************************	14/425,9	68	
	filed applications	filed	March 7, 2015			
and going claims or reexaminareexaminaresulting entire inte this assign	g forward with such interferer 3) Each undersigned agrees provisions of the Internation 4) Each undersigned agrees ation a grant of a valid United 5) Each undersigned authori from said application(s) to the prest herein assigned, and that ment is binding on Assignor 6) Each undersigned berely.	to execute al Converto perform d States p zes and ree said Assi and Assi and Assi and Assi arents the	t-grant proceeding, all papers and documents a tion for Protection of Indust a all affirmative acts which a attent to the Assignee, quests the Commissioner of tignee, as Assignee of the en has not executed, and will a gnor's heirs, successors, assi	and perform any trial Property or may be necessar the U.S. Patent tire interest, and not execute, any gns and legal rej	act when the similar of the order of the ord	btain, maintain or confirm by reissue or rademark Office to issue any and all patents nants that he or she has full right to convey the
(13) I	Declaration			. wish and 1140	-iiiai K	Office for recordation of this document.
As an abo	ve named inventor, I hereby	declare th	nt:			
1		tororana		ned invention (or	claim	ed design) in the above-identified application for
T.	he application was made or au	thorized to	be made by me.			
I		the conten	ts of the above-identified one.	lication, including CFR \$1.56.	; the c	laims, and am aware of the duty to disclose to the
I	hereby acknowledge that any ent of not more than five (5)	z willful f	lee etatement made in this	leclaration is pur	nishab	ole under 18 U.S.C. 1001 by fine or
វែរ	n witness whereof, executed	by the m	dersigned on the date(s) o	pposite the und	ersigi	aed name(s).
Date 3	0/03/2016		Inventor Signature	Leudai	u.	Forello (SEAL)

Date		Inventor Signatus	re	(SEAL)
Date		Inventor Signatur	re	(SEAL)
Date		Inventor Signatur	··c	(SEAL)
Date		Inventor Signatur	'e	(SEAL)
Date		Inventor Signatur	· e	(SEAL)
Date		Inventor Signatur	re	(SEAL)
Date		Inventor Signatur	e	(SEAL)
neither,	This assignment should preferably be signed be then it should be signed before at least two witness.	efore: (a) a Notary F sesses who also sign	Public if within the U.S.A. (b) a U.S. Consul if outside the here:	U.S.A. If
Date	30/03/2015	Witness	GAY Sophie CO	territorio de la constitución de
Date	30/03/2015	Witness	SAMALLE WOLDE ST	<u> </u>

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

#### ASSIGNMENT

Insert	(1)	Jean-Paul GARANDET		(2)	Nicolas CHAINTREUIL		
Legal Name(s)	(3)	Annalaura FASIELLO	(	(4)	Eric PILAT		
of Inventor(s)	(5)	Yannick VESCHETTI		(6)			
	(7)			(8)			
	the un	dersigned, the receipt and su	fficiency of which	are	er good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to		
Insert Name of Assignee	(9)	COMMISSARIAT A L'EI	NERGIE ATOMIÇ	UE	ET AUX ENERGIES ALTERNATIVES		
Insert Address of Assignee	(10)	(10) 25 rue Leblanc, Bâtiment "Le Ponant D", F-75015 Paris, France					
	the ent invent contin	ire right, title and interest for on, and in all applications for nation, international, substitu	r the United States or patent including ote and reissue appl	of / any icat	America as defined in 35 U.S.C. § 100, in the and all provisional, non-provisional, divisional, tion(s), and all Letters Patent, extensions, reissues		
Insert Identification	. (11)	METHOD FOR MANUF	ACTURING A MO	ONC	OLITHIC SILICON WAFER COMPRISING		
Number, or Foreign		MULTIPLE VERTICAL JUNCTIONS					
Application Number	(Attor	ney Docket No. 165182	William Control of the Control of th	),	filed on even date herewith or as		
Alternative Identification for	(12)	U.S. Application Number	14/425,968				
filed applications	filed	March 7, 2015					
	Legal Name(s) of Inventor(s)  Insert Name of Assignce Insert Address of Assignee  Insert Identification such as Title, Case Number, or Foreign Application Number  Alternative Identification for	Legal Name(s) (3)  of Inventor(s) (5)  (7)  In continuous assign.  Insert Name of Assignee (9)  Assignee (10)  Assignee (herein the entinyentic continuand recommend and r	Legal Name(s)  of Inventor(s)  (5) Yannick VESCHETTI  (7)  In consideration of the sum of one the undersigned, the receipt and su assign, and hereby does assign, tra:  Insert Name of Assignee Insert Address of Assignee  (9) COMMISSARIAT A L'E.  (10) 25 rue Leblanc, Bâtiment (hereinafter designated as the Assignee (hereinafte	Legal Name(s)  of Inventor(s)  (5) Yannick VESCHETTI  (7)  In consideration of the sum of one dollar (\$1.00) and the undersigned, the receipt and sufficiency of which assign, and hereby does assign, transfer and set over the understand of the undersigned, the receipt and sufficiency of which assigned as the receipt and sufficiency of which assigned (10)  COMMISSARIAT A L'ENERGIE ATOMIC (10)  25 rue Leblanc, Bâtiment "Le Ponant D", For the entire right, title and interest for the United States invention, and in all applications for patent including continuation, international, substitute and reissue application such as Title, Case Number, or Foreign Application Number  (11) METHOD FOR MANUFACTURING A MC MULTIPLE VERTICAL JUNCTIONS (Attorney Docket No. 165182  Alternative (12) U.S. Application Number 14/425,968	Legal Name(s) (3) Annalaura FASIELLO (4)  of Inventor(s) (5) Yannick VESCHETTI (6)  (7) (8)  In consideration of the sum of one dollar (\$1.00) and othe the undersigned, the receipt and sufficiency of which are assign, and hereby does assign, transfer and set over to  Insert Name of Assignee (9) COMMISSARIAT A L'ENERGIE ATOMIQUE Insert Address of Assignee (10) 25 rue Leblanc, Bâtiment "Le Ponant D", F-75 (hereinafter designated as the Assignee) and Assignee's here the entire right, title and interest for the United States of invention, and in all applications for patent including any continuation, international, substitute and reissue application and reexamination certificates that may be granted on the MULTIPLE VERTICAL JUNCTIONS  (Attorney Docket No. 165182 ),  Alternative (12) U.S. Application Number 14/425,968		

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
   5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that 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.

#### (13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I 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.

EP

Date	30 mars & 15	Inventor Signatur	re EAL	(SEAL)	
Date		Inventor Signatui	re	(SEAL)	
Date		Inventor Signatur	re	(SEAL)	
Date		Inventor Signatur	re	(SEAL)	
Date		Inventor Signatur	-e	(SEAL)	
Date		Inventor Signatur	re	_ (SEAL)	
Date		Inventor Signatur	·e	(SEAL)	
Date		Inventor Signatur	e	_ (SEAL)	
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:					
Date .	30/53 MOVS	Witness	CAY Sphie		
Date	30/03/2015	Witness	SAMALUE indelle J	2 ill	

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

#### ASSIGNMENT

	Insert	(1)	Jean-Paul GARANDET	(2)	)	Nicolas CHAINTREUIL	
(1-8)	Legal Name(s)	(3)	Annalaura FASIELLO	(4)	)	Eric PILAT	
	of Inventor(s)	(5)	Yannick VESCHETTI	(6)	)		
		(7)	THE PROPERTY OF THE PROPERTY O	(8)	)		
		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to					
(9)	Insert Name of Assignee Insert Address of Assignee	(9) COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES					
(10)		(10)	(10) 25 rue Leblanc, Bâtiment "Le Ponant D", F-75015 Paris, France				
		(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as					
(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	METHOD FOR MANUFA	CTURING A MON	VO.	LITHIC SILICON WAFER COMPRISING	
			MULTIPLE VERTICAL J	UNCTIONS			
	· · · pp	(Attori	ney Docket No. 165182	).	, fi	iled on even date herewith or as	
(12)	Alternative	(12)	U.S. Application Number	14/425,968			
	Identification for		_				
	filed applications	filed	March 7, 2015				

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.

  3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with
- claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that 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.

#### (13)Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I 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.

Date	27103/2015	Inventor Signatur	e (SEAL)		
Date		Inventor Signatur	e (SEAL)		
Date	AP-1	Inventor Signatur	e (SEAL)		
Date		Inventor Signature	e (SEAL)		
Date		Inventor Signature	SEAL)		
Date		Inventor Signature	SEAL)		
Date		Inventor Signature	(SEAL)		
Date		Inventor Signature	(SEAL)		
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If either, then it should be signed before at least two witnesses who also sign here:					
Date	27/03/15	Witness	GAY Spho E		
Date	27/03/15	Witness	SAMAILIE wasalle of the		

**RECORDED: 05/07/2015**