### 504266092 03/10/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4312772

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BRUNO LE GARJAN	06/16/2015
VINCENT GENIEUX	06/18/2015
GUILLAUME BURGUIERE	11/09/2015
ARNAUD MENARD	06/24/2015
BRIEUC THOMAS	06/11/2015
MICHEL AUFFRAY	06/23/2015
ANDRE MAGRAS	03/09/2017
VIVIANE BESSON	06/17/2015

### **RECEIVING PARTY DATA**

Name:	THOMSON LICENSING	
Street Address:	1-5 RUE JEANNE D'ARC	
City:	ISSY-LES-MOULINEAUX CEDEX	
State/Country:	FRANCE	
Postal Code:	92130	

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

Property Type	Number
Application Number:	14412671

#### **CORRESPONDENCE DATA**

**Fax Number:** (631)499-2791

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: (631) 499-2970
Email: jack@jsa-iplaw.com
Correspondent Name: JACKIE SCHWARTZ
Address Line 1: 6165 JERICHO TPKE

Address Line 4: COMMACK, NEW YORK 11725

ATTORNEY DOCKET NUMBER:	PF120084
NAME OF SUBMITTER:	JACKIE SCHWARTZ
SIGNATURE:	/js/

PATENT 504266092 REEL: 041534 FRAME: 0539

DATE SIGNED:	03/10/2017				
Total Attachments: 11	Total Attachments: 11				
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2<sup>nd</sup> Witness

(Type or Print)

**DECLARATION** 

Docket No.PF120084

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on

the specification o	of which was filed on July 03, 2013	as Application Serial No.	PCT/EP13/064033	and was amended o
January 2, 2015	, or, if not identifi	ed here by filing date and serial numb		-
The above-i	dentified application was made or authorized to b	e made by me.		
referred to above	wed and understand the contents of the above ide	entified specification, including the cla	ims, as amended by a	ny amendment
	ge the duty to disclose information which is mater	ial to patentability as defined in 37 CF	R 1.56, including for a	ontinuation-in-
	material information which became available between	veen the filing date of the prior applica	ation and the national o	or PCT
hereby dec	i date of the continuation-in-part application. Dare that all statements made herein of my own ki	nowledge are true and that all statem	ents made on informat	ion and helief
are believed to be	e true; and further that these statements were mad	de with the knowledge that willful false	statements and the li	ke so made
are punishable by	fine or imprisonment of not more than five (5) ye	ars, or both, under 18 USC 1001.		
AS	SIGNMENT AND AGREEMENT IN	AN APPLICATION FOR LE	TTERS PATENT	г
For valua	able consideration received. I hereby sell, assign	n and transfer to Thomson Licensing	a, a corporation duly	organized and
existing under the	e laws of the country of France, its successors, ar	nd assigns my entire right, title and in	terest, for all countries	in and to said
nventions, includ granted therefor.	ling India and the United States of America, and and any divisions, continuations, reissues and ex	all the rights and privileges under an tensions thereof	y and all Letters Pater	nt that may be
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Convention for th	ne Protection of Industrial Property, as amended,	or by any convention which may he	nceforth be substitute	d for it, and to
invoke and claim	such right of priority without further written or oral consent that a copy of this assignment shall be de	authorization from me.		annual to file
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I covena	nt with Thomson Licensing, its successors, assign	ns, legal representatives, and nomine	es, that to the best of	my knowledge
he right, title and nerein expressed	d interest herein conveyed by me are free and cl	ear of any encumbrance, and that I h	ave full right to conve	y the same as
retent expressed		7		
Signed at	Kennes	Date 16 June	2015	
	•	a		
Inventor		<del></del>		
Name	LE GARJAN BRUNO		1	
rvaine	(Type or Print)	(Signature in I	-ull - No Initials)	
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Post Office				
Address	Technicolor R&D France, 975 avenu	e des Champs Blancs, F-35576	Cesson-Sévigné C	edex,
	France	We have seeing the second		
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1 <sup>st</sup> Witness	E MiNRC John	/Oleventer 32.5	7.31 No. 2-24-2-3	
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**PATENT REEL: 041534 FRAME: 0541** 

(Signature in Full - No Initials)

2<sup>nd</sup> Witness

(Type or Print)

### DECLARATION

Docket No.PF120084

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he specification of whic	n was filed on	1010 03 2013	as Application Serial N	O PCT/EP13/064033	and was amended o
January 2, 2015		or if not iden	as Application Serial N ntified here by filing date and serial r	number, is attached hereto	<del></del>
The above-identific	d application was	s made or authorized to	o be made by me.		
I have reviewed an	d understand the	contents of the above	identified specification, including th	e claims, as amended by a	ny arriendment
referred to above			and the second s	OFD 4 50 technique four	amtiguation in
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part applications, materi International filing date (	al information wri	ch became available c	etween the hing pate of the prior a	Spincation and the national	01101
Lharshy doctors th	at all statements	made herein of my nw	n knowledge are true and that all st	atements made on informat	tion and belief
are helieved to he true	and further that in	iese statements were r	nade with the knowledge that willful	false statements and the I	ike so made
are punishable by fine o	r imprisonment of	f not more than five (5)	years, or both, under 18 USC 1001	9	
		ACDEEMENT (	N AN APPLICATION FOR	LETTERS PATEN	т
For valuable of	onsideration recei	ved, I hereby sell, as	sign and transfer to Thomson Lice	ensing, a corporation duly	organized and
assistance under the lower	of the country of	France its successors	and assigns my entire gont, title a	nd interest, for all countries	s in and to salu
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**PATENT REEL: 041534 FRAME: 0542** 

(Signature in Full - No Initials)

### DECLARATION

Docket No.PF120084

As a below named inventor, I hereby declare that:

(Type or Print)

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

DATA RE	CORDING DEVICE	AND METHOD RELATING	G TO A TIME SH	IFTING FUNCT	ION ON A RECORD	ING MEDIUM
the specification o	of which was filed on	July 03, 2013	as Applica	tion Serial No.	PCT/EP13/064033	and was amended on
January 2, 201!		, or, if not identifie	ed here by filing o	date and serial r	number, is attached l	nereto.
I have review amendment referrance I acknowledge continuation-in-pathe national or PC I hereby declarinformation and be	ed and understand th ed to above. e the duty to disclose rt applications, mater T international filing d are that all statement elief are believed to b	as made or authorized to e contents of the above information which is ma ial information which bec ate of the continuation- is made herein of my owr e true; and further that t nishable by fine or impris	be made by me. identified specific terial to patental came available befin-part application in knowledge are these statements.	cation, including bility as defined tween the filing n. true and that all were made with	g the claims, as amer in 37 CFR 1.56, incl date of the prior ap I statements made o th the knowledge tha	nded by any uding for plication and n t willful false
ASSIGN	MENT AND AG	REEMENT IN AN	APPLICAT	ION FOR I	LETTERS PAT	ENT
organized and existor all countries is under any and all thereof.  I agree that oaths, make all remaintaining patent corporation, its sure agree the inventions and whe everything possible proper protection.  I authorize form of protection claim for any applipriority provided which may hence authorization from a hereby consent to file or right of the said inventions, and the protection of Indula I covenant knowledge the right of th	sting under the laws n and to said invention in Letters Patent that it, when requested, I wightful declarations to or other forms of processors, assigns or not at I will communication requested by said the to aid said corporation for said inventions in and empower said component or said inventions in the analysis of the inventions of the inventions of the inventions of the substituted in me.  Onsert that a copy of like document which corporation or its su or claim the aforesail strial Property, as amount with Thomson Licens	e to said corporation of corporation and at its tion, its successors, assi any and all countries. or poration, its successor in its or their own name, other form of protection convention for the Prote for it, and to invoke a f this assignment shall it may be required in any occessors, assigns or nod benefits of the right ended, or by any convensing, its successors, assigherein conveyed by me a	e, its successors, the United State afor, and any divided Corporation but may be necessations in any and a cor its representate expense will testigns and legal representation of Industriand claim such rispediemed a fully country for any minees to apply of priority provition which may highs, legal represe	and assigns mes of America, visions, continuate at its expense any, desirable coall countries and tives any facts titly in any legal presentatives of minees, to make ame, in any and as filed by it or al Property, as ght of priority legal and formary purpose and for patent or wided by the litenceforth be sentatives, and not a property as a part of the sentatives, and not a property as a purpose and the sentatives, and not a property as a purpose and the litenceforth be sentatives, and not a priority as a property as	y entire right, title a and all the rights are lations, reissues and e, sign all papers, take or convenient for so d for vesting title the sknown to me respand proceedings, and remained, to obtain them, the benefit of amended, or by any without further write all equivalent of any more particularly in other proper protect in them, the benefit of amended, or by any without further write all equivalent of any more particularly in other proper protect in the state of the s	and interest, and privileges it extensions are all rightful eccuring and ereto in said specting said generally do nor enforce ent or other to invoke and in the right of a convention assignment, proof of the tion for said tion for the electric extension for the electric extensions are extensions.
Signed at	11, rue 9	François Bras	usais o	Date <u>9/</u>	11/2015	
Inventor Name	BURGUIERE GUIL (Type or Print)	LAUME	(	Şignature in	Full - Winitials)	3
Post Office Address	11, rue François	Broussais - 35770 \	Vern-sur-Seich	e - France		1
1st Witness	BURGUERE	Jeanne		al	2,	

**PATENT REEL: 041534 FRAME: 0543** 

(Signature in Full - No Initials)

DECLARATION

Docket No.PF120084

2<sup>nd</sup> Witness

DUCLOJ GWELANT
(Type or Print)

(Signature in Full - No Initials)

DECLARATION

Docket No.PF120084

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#### DATA RECORDING DEVICE AND METHOD RELATING TO A TIME SHIFTING FUNCTION ON A RECORDING MEDIUM

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

#### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, including India and the United States of America, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	La Ville aux Dames - France	Date June 24, 2015
nventor Name	MENARD ARNAUD	Porad
13,110	(Type or Print)	(Signature in Full – No Initials
Post Office		
Address	8 lieu dit Rousselière - 35140 Gosne - Fran	ce

Custom	er No. 24498	DECLARATION	Docket No.PF120084
1 <sup>st</sup> Witness	HAWREN Mo	10.	JR me god
	(Type or Print)		(Signature in Full - No Initials)
2 <sup>nd</sup> Witness	BEAUVAIS YAW (Type or Print)	<u> </u>	(Signature in Full - No Initials)

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Signed at	Saint-Jacques-de-la-Pando	Date 11/6/2015
nventor Name	THOMAS BRIEUC(Type or Print)	(Signature in Full – No Initials)
ost Office		
Address		Champs Blancs, F-35576 Cesson-Sévigné Cedex,
	France	
1 <sup>st</sup> Witness	ROCHE Clotilde	
	(Type or Print)	(Signature in Kull - No Initials)
2 <sup>nd</sup> Witness	FORTIN ARMAUD	todas
	(Type or Print)	(Signature in Full – No Initials)

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Signed at	RENNES Date	23/08/2015
Inventor Name	At Improved the second	1/
· · · · · · · · · · · · · · · · · · ·	AUFFRAY MICHEL	(Signature in Full – No Initials)
Post Office		(Oignature in Full - No initials)
Address	2, Le Houssay, 35540 Livré sur Changeon, France	12
1 <sup>st</sup> Witness	CARADEUC Jurame	- Distriction of the second
2 <sup>nd</sup> Witness	(Type or Print)	(Signature Id/Full / No Initials)
	(1 ype of Frint)	(Signature in Full - No Initials)

**DECLARATION** 

Docket No.PF120084

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

#### DATA RECORDING DEVICE AND METHOD RELATING TO A TIME SHIFTING FUNCTION ON A RECORDING MEDIUM

the specification of which was filed on	July 03, 2013	as Application Serial No.	PCT/EP13/064033	and was amended on	
January 2, 2015	, or, if not identi	ified here by filing date and serial numbe	r, is attached hereto.		
The above-identified application was made or authorized to be made by me.					
I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment					
referred to about					

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

#### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, including India and the United States of America, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in mylour name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	Saint Jacquick belowle	Date 17 (06) 2005
Inventor Name	BESSON VIVIANE(Type or Print)	(Signature in Full No Initials)
Post Office Address	Technicolor R&D France, 975 avenue des France	Champs Blancs, F-35576 Cesson-Sévigné Cedex,
1 <sup>st</sup> Witness	CE DEZ Brugo (Type or Print)	(Signature in Full - No Initials)
2 <sup>nd</sup> Witness	FRÉTIENÉ Marlin (Type or Print)	(Signature in Full – No Initials)

Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)

Approved for use through 04/30/2017. OMB 0651-0032

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# SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	DATA RECORDING DEVICE AND METHOD RELATING TO A TIME SHIFTING FUNCTION ON A RECORDING MEDIUM				
This stateme	nt is directed to:		***		
The att	ached application,				
OR					
United	States application or PCT international	application number 14/41	2,671	filed on _	January 2, 2015 <sub>.</sub>
LEGAL NA	ME of inventor to whom this sul	ostitute statement appli	es:		
( <i>E.g.</i> , Given	Name (first and middle (if any)) and F	amily Name or Surname)			
Andre Ma					
Residence (	except for a deceased or legally incapa	acitated inventor):			
St. Gr <sub>City</sub>	egoire	State	Country	FR	
Mailing Addre	ss (except for a deceased or legally incapa				
9, hame	au de la Chevrolais, Feins				
St. Gr	egoire	State	Zip	35760	FR Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.					
The above-identified application was made or authorized to be made by me.					
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
Relationship to the inventor to whom this substitute statement applies:					
Legal Representative (for deceased or legally incapacitated inventor only),					
Assignee,					
Person to whom the inventor is under an obligation to assign,					
Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or					
	Joint Inventor.				
1					

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## **SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:			
Inventor is deceased,			
Inventor is under legal incapacity,			
Inventor cannot be found or reached after diligent effort, or			
Inventor has refused to execute the oath or declaration under 37	CFR 1.63.		
If there are joint inventors, please check the appropriate box below:			
An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or eq or is currently submitted.	uivalent) naming the entir	e inventive entity has been	
OR			
An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or eq Statement Supplemental Sheet (PTO/AIA/11 or equivalent) nami information is attached. See 37 CFR 1.64(b).	uivalent) has not been su ing the entire inventive en	bmitted. Thus, a Substitute tity and providing inventor	
WARNING:	***		
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.			
PERSON EXECUTING THIS SUBSTITUTE STATEMENT:			
Name: Brian J. Dorini			
<sub>Signature:</sub> /Brian J. Dorini/			
APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:			
If the applicant is a juristic entity, list the applicant name and the title of the	signer:		
Applicant Name: Thomson Licensing			
Title of Person Executing This Substitute Statement: Chief U.S. Attorney, Patent Management			
The signer, whose title is supplied above, is authorized to act on behalf of the applicant.			
Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):			
City Princeton State NJ	<sub>Country</sub> USA		
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent) Patent Operations 4 Research Way 3rd Floor			
<sub>City</sub> Princeton <sub>State</sub> NJ	08540-6620 Zip	Country USA	
Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.			

[Page 2 of 2]

**RECORDED: 03/10/2017**