# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5093679

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KEVIN L. HOUSER	04/05/2018
ANDREW M. ZWOLINSKI	04/05/2018
TRACY D. LOPES	04/05/2018
PRASANNA MALAVIYA	04/23/2018
DANIEL W. PRICE	04/05/2018
LOUIS T. DELUCA	06/20/2018

#### **RECEIVING PARTY DATA**

Name:	ETHICON LLC
Street Address:	#475 STREET C, SUITE 401
Internal Address:	LOS FRAILES INDUSTRIAL PARK
City:	GUAYNABO
State/Country:	PUERTO RICO
Postal Code:	00969

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15784879

## **CORRESPONDENCE DATA**

Fax Number: (412)355-6501

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: (412) 355-8276

Email: piuspatents@klgates.com

**Correspondent Name:** CARA M. PINTO 210 SIXTH AVENUE Address Line 1: Address Line 2: **K&L GATES LLP** 

Address Line 4: PITTSBURGH, PENNSYLVANIA 15222-2613

ATTORNEY DOCKET NUMBER:	END6050USCNT2/060877CON2
NAME OF SUBMITTER:	CARA M. PINTO
SIGNATURE:	/Cara M. Pinto/
DATE SIGNED:	08/13/2018

PAIENI REEL: 046622 FRAME: 0424 505046925

This document serves as an Oath/Declaration (37 CFR 1.63).

### **Total Attachments: 12**

source=signed\_combined\_declarations-assignments#page1.tif source=signed\_combined\_declarations-assignments#page3.tif source=signed\_combined\_declarations-assignments#page4.tif source=signed\_combined\_declarations-assignments#page5.tif source=signed\_combined\_declarations-assignments#page5.tif source=signed\_combined\_declarations-assignments#page6.tif source=signed\_combined\_declarations-assignments#page7.tif source=signed\_combined\_declarations-assignments#page8.tif source=signed\_combined\_declarations-assignments#page9.tif source=signed\_combined\_declarations-assignments#page10.tif source=signed\_combined\_declarations-assignments#page11.tif source=signed\_combined\_declarations-assignments#page11.tif source=signed\_combined\_declarations-assignments#page12.tif

PATENT REEL: 046622 FRAME: 0425

	Attorney Docket No.: <u>END6050USCNT2/060877CON2</u> US Application No.: <u>15/784,879</u>
COMBINE	D DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL INSTRUM	
This declaration and assignment is directed to:	
	The ettenhed on filed howevith annihilation of Clist of annual inventor
_	The attached or filed herewith application of (list of named inventors),
or	
	The United States application or PCT international application number <u>15/784,879</u> filed on <u>October 16, 2017</u> .
Declaration	
As the below named inventor, I hereby de-	clare that:
The above-identified application ("Application of the control of t	ation") was made or authorized by me.
I believe that I am the original inventor or	an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood the continformation which is material to patentability as dithis Application in the United States of America.	ents of the Application, including the claims, and I acknowledge the duty to disclose efined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful fals imprisonment of not more than five (5) years, or bo	se statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or th for filings of this Application in the United States of America.
Assignment	
·	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
a Li	mited Liability Company of <u>Delaware</u> .
(he	reinafter designated as the "Assignee"),
I hereby acknowledge that I have assigned which is hereby conformed for recordation in the Us	I the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the assigned and transferred to Assignee:	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all inv States, European Patent Office and of all other consuch inventions or discoveries and all rights in continuations thereof, and to all Letters Patent that supplementary protection certificates, reexamination	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United untries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and it may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would tent and sale not been made.

Page 1 of 2

US Application No.: 15/784,879

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall 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.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document,

<u>Kevin L. Houser</u>

LEGAL NAME OF INVENTOR

Signature

5-APR-18

	Attorney Docket No.: <u>END6050USCNT2/060877CON2</u> US Application No.: <u>15/784,879</u>
COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL INSTRUME	
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors)
· -	, and the state of
or	The Haited States and limiting as DOT intermediated and limit
	The United States application or PCT international application number <u>15/784,879</u> filed on <u>October 16, 2017</u> .
Declaration	
As the below named inventor, I hereby decl	lare that:
The above-identified application ("Application)	
	un original inventor of a claimed invention or discovery in the Application.
	nts of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful false imprisonment of not more than five (5) years, or both	e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or h for filings of this Application in the United States of America.
Assignment	
	Ethicon LLC #475 Street C, Suite 401
	Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
a Lin	nited Liability Company of <u>Delaware</u> .
(here	einafter designated as the "Assignee"),
I hereby acknowledge that I have assigned which is hereby conformed for recordation in the US	the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the assigned and transferred to Assignee:	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all invo States, European Patent Office and of all other coursuch inventions or discoveries and all rights in s continuations thereof, and to all Letters Patent that supplementary protection certificates, reexaminations	the Application, including all priority rights for other countries arising therefrom and centions or discoveries therein disclosed, and any and all Letters Patent of the United ntries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and may be granted for said inventions and discoveries, and in and to all extensions, so, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would ent and sale not been made.
	D 1 CA
	Page 1 of 2

US Application No.: 15/784,879

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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I shall 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.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Andrew M. Zwolinski LEGAL NAME OF INVENTOR

( Syl

4/5/2018

		US Application No.: <u>15/784,879</u>
	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention: SURGIO	CAL INSTRUME	<u>ENTS</u>
This declaration and assignment i	s directed to:	r
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>15/784,879</u> filed on <u>October 16, 2017</u> .
Declaration		
As the below named inve	entor, I hereby dec	lare that:
The above-identified app	olication ("Applica	tion") was made or authorized by me.
I believe that I am the or	iginal inventor or a	an original inventor of a claimed invention or discovery in the Application.
	patentability as de	nts of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or the for filings of this Application in the United States of America.
Assignment		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
•	a Lir	mited Liability Company of <u>Delaware</u> .
	(her	einafter designated as the "Assignee"),
		the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
or		
For good and valuable assigned and transferred to Assign		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority to the Astates, European Patent Office as uch inventions or discoveries a continuations thereof, and to all upplementary protection certifica	Application, all inv and of all other count and all rights in a Letters Patent that ates, reexamination the term or terms for	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United antries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and t may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would ent and sale not been made.

Page 1 of 2

PATENT

REEL: 046622 FRAME: 0430

US Application No.: 15/784,879

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall 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.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Tracy D. Lopes

LEGAL NAME OF INVENTOR

Cincatan

Date

Page 2 of 2

REEL: 046622 FRAME: 0431

		Attorney Docket No.: <u>END6050USCNT2/060877CON2</u> US Application No.: <u>15/784,879</u>
	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention:	SURGICAL INSTRUME	
This declaration and ass	ignment is directed to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number 15/784,879 filed on October 16, 2017.
Declaration		
As the below na	amed inventor, I hereby decl	are that:
The above-iden	tified application ("Applicat	tion") was made or authorized by me.
I believe that I a	am the original inventor or a	n original inventor of a claimed invention or discovery in the Application.
I have reviewed information which is ma this Application in the U	iterial to patentability as def	nts of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or a for filings of this Application in the United States of America.
Assignment		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Lim	nited Liability Company of <u>Delaware</u> .
	(here	einaster designated as the "Assignee"),
		the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or		·
☑ For good and vassigned and transferred t		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority States, European Patent such inventions or disco- continuations thereof, an supplementary protection and enjoyment to the full	to the Application, all inversely to the Application, all inverses and of all other courselveries and all rights in such that the certificates, reexaminations	ne Application, including all priority rights for other countries arising therefrom and entions or discoveries therein disclosed, and any and all Letters Patent of the United ntries, which may be granted for such inventions or discoveries, or any of them, all uch Application including any and all provisionals, substitutions, divisions, and may be granted for said inventions and discoveries, and in and to all extensions, s, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would ent and sale not been made.
		Page 1 of 2

PATENT REEL: 046622 FRAME: 0432

US Application No.: 15/784,879

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Prasanna Malaviya LEGAL NAME OF INVENTOR	
Trulanga	23-APRIL-2018
Signature	Date

	Attorney Docket No.: <u>END6050USCNT2/060877CON2</u> US Application No.: <u>15/784,879</u>
COMBINED DECL	ARATION AND ASSIGNMENT
Title of Invention: SURGICAL INSTRUMENTS	
This declaration and assignment is directed to:	
☐ The atta	ached or filed herewith application of (list of named inventors),
or	
	ited States application or PCT international application 15/784,879 filed on October 16, 2017.
Declaration	
As the below named inventor, I hereby declare that:	
The above-identified application ("Application") was	s made or authorized by me.
I believe that I am the original inventor or an original	inventor of a claimed invention or discovery in the Application.
	Application, including the claims, and I acknowledge the duty to disclose itle 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful false statement imprisonment of not more than five (5) years, or both for filing	nt made in this declaration is punishable under 18 U.S.C. § 1001 by fine or gs of this Application in the United States of America.
Assignment	
Los Fi	Ethicon LLC Street C, Suite 401 railes Industrial Park ro, Puerto Rico 00969
a Limited Liab	oility Company of <u>Delaware</u> .
(hereinafter de	esignated as the "Assignee"),
I hereby acknowledge that I have assigned the above which is hereby conformed for recordation in the US Patent O	e-identified invention by previous assignment (attached hereto) to Assignee ffice and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the sufficien assigned and transferred to Assignee:	cy of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all inventions of States, European Patent Office and of all other countries, where such inventions or discoveries and all rights in such Applications thereof, and to all Letters Patent that may be supplementary protection certificates, reexaminations, renewal	ation, including all priority rights for other countries arising therefrom and discoveries therein disclosed, and any and all Letters Patent of the United tich may be granted for such inventions or discoveries, or any of them, all lication including any and all provisionals, substitutions, divisions, and granted for said inventions and discoveries, and in and to all extensions, is, and reissues thereof, to be held and enjoyed by Assignee for its own use such Letters Patent may be granted, as fully and entirely as the same would be not been made.

Page 1 of 2

US Application No.: 15/784,879

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Daniel W. Price		
LEGAL NAME OF INVENTOR		
Dailnai	04/05/18	
Signature	Date	

	Attorney Docket No.: <u>END6050USCNT2/060877CON2</u> US Application No.: 15/784,879
COMBIN	ED DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL INSTRI	IMENTS
This declaration and assignment is directed to:	부분 발생으로 하는 사람들이 되었다. 그 사람들이 되었다. 그 사람들이 되었다. 
rms decid attor and assignment is uncered to.	보고 보고 있을까요. 
	The attached or filed herewith application of (list of named inventors),
or	. 아마바이 바다를 살려면 가려면 하는 것이 없는 그 때문에 다른 사람이 되었다.
	The United States application or PCT international application number 15/784,879 filed on October 16, 2017.
Declaration	에 가는 이 등에 가면 하면 함께 하는데 호텔 전략을 취해 하는데 하는데 보고 있다. 
As the below named inventor, I hereby	declare that:
The above-identified application ("App	olication") was made or authorized by me.
I believe that I am the original inventor	or an original inventor of a claimed invention or discovery in the Application,
I have reviewed and understood the c information which is material to patentability a this Application in the United States of Americ	ontents of the Application, including the claims, and I acknowledge the duty to disclose is defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of a.
I hereby acknowledge that any willful imprisonment of not more than five (5) years, or	false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or both for filings of this Application in the United States of America.
Assignment	
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park
	Guaynabo, Puerto Rico 00969
	a Limited Liability Company of <u>Delaware</u> .
	(hereinafter designated as the "Assignee"),
☐ I hereby acknowledge that I have assign which is hereby conformed for recordation in the	gned the above-identified invention by previous assignment (attached hereto) to Assignee e US Patent Office and I confirm I have and do assign and transfer:

or

I hereby acknowledge that I have assigned the above-identified in which is hereby conformed for recordation in the US Patent Office and I co

図 For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:

my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

Page 1 of 2

US Application No.: 15/784,879

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I shall 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.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Louis T. DeLuca
LEGAL NAME OF INVENTOR

Signature

6/20/2018

Date

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