504892142 04/30/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4938885

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EITAN T. WIENER	04/12/2018
SHAN WAN	03/14/2018
DANIEL W. PRICE	03/27/2018
DAVID K. NORVELL	03/27/2018
JAMES R. GIORDANO	01/22/2018

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:	15703577

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) 355-7471

piuspatents@klgates.com Email: LAURÉN S. MURRAY **Correspondent Name:** 210 SIXTH AVENUE Address Line 1: Address Line 2: **K&L GATES CENTER**

Address Line 4: PITTSBURGH, PENNSYLVANIA 15222-2613

ATTORNEY DOCKET NUMBER:	END6493USDIV2/080592DIV2
NAME OF SUBMITTER:	LAURÉN S. MURRAY
SIGNATURE:	/L. Murray/
DATE SIGNED:	04/30/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

REEL: 045671 FRAME: 0369 504892142

PAIENI

Total Attachments: 10 source=signed_combined_declarations-assignments#page1.tif source=signed_combined_declarations-assignments#page2.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#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#page9.tif

- 1	
	Attorney Docket No.: END6493USDIV2/080592DIV2 US Application No.: 15/703,577
	COMBINED DECLARATION AND ASSIGNMENT
	Title of Invention: <u>ULTRASONIC SURGICAL INSTRUMENTS</u>
	This declaration and assignment is directed to:
	The attached or filed herewith application of (list of named inventors)
	The United States application or PCT international application number <u>15/703,577</u> filed on <u>September 13, 2017</u> .
	Declaration
	As the below named inventor, I hereby declare that:
	The above-identified application ("Application") 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 contents of the Application, including the claims, and I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this Application in the United States of America.
j	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 for filings of this Application in the United States of America.
4	Assignment
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Limited Liability Company of Delaware.
	(hereinafter designated as the "Assignee"),
[v	I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:
o	
_	For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have ssigned and transferred to Assignee:
S S C S S a	ny entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and ne right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United tates, 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, upplementary 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 ave been held and enjoyed by me had this assignment and sale not been made.

US Application No.: 15/703,577

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.

Eitan T. Wiener

LEGAL NAME OF INVENTOR

Signature

4/12/2018 Date

Attorney Docket No.: <u>BND6493USDIV2/080592DIV2</u> US Application No.: <u>15/703,577</u>		
COMBINED DECLARATION AND ASSIGNMENT		
Title of Invention: <u>ULTRASONIC SURGICAL INSTRUMENTS</u>		
This declaration and assignment is directed to:		
The attached or filed herewith application of (list of named inventors)		
or		
The United States application or PCT international application number <u>15/703,577</u> filed on <u>September 13, 2017</u> .		
Declaration		
As the below named inventor, I hereby declare that:		
The above-identified application ("Application") 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 contents of the Application, including the claims, and I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this Application in the United States of America.		
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 for filings of this Application in the United States of America.		
Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969		
a Limited Liability Company of Delaware.		
(hereinafter designated as the "Assignee"),		
I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:		
יוכ		
☑ For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:		
ny entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and he 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.: 15/703,577

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, Buropean Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Applications(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 Buropean 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.

Shan Wan LEGAL NAME OF INVENTOR

Signature

03/14/2018

Page 2 of 2

1		US Application No.: <u>15/703,577</u>
	COMBINED	DECLARATION AND ASSIGNMENT
	Title of Invention: <u>ULTRASONIC SURGIC</u>	AL INSTRUMENTS
	This declaration and assignment is directed to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>15/703,577</u> filed on <u>September 13, 2017</u> .
	Declaration	
	As the below named inventor, I hereby decl	are that:
	The above-identified application ("Application	ion") was made or authorized by me.
	I believe that I am the original inventor or a	n 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		statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or 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 Delaware.
	(here	inafter designated as the "Assignee"),
[v	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:
0	r	
	For good and valuable consideration, the ssigned and transferred to Assignee:	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
si co si ai	ne right to claim priority to the Application, all investates, European Patent Office and of all other countries in the countries of the count	the 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 notices, 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, are renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use r which such Letters Patent may be granted, as fully and entirely as the same would not and sale not been made.

Page 1 of 2

US Application No.: 15/703,577

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.

Daniel W. Price	
LEGAL NAME OF INVENTOR	
Dailufi	03/27/19
Signature	Date

	Attorney Docket No.: <u>END6493USDIV2/080592DIV2</u>
	US Application No.: <u>15/703,577</u>
COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention: <u>ULTRASONIC SURGIC</u>	AL INSTRUMENTS
This declaration and assignment is directed to:	
П	The attached or filed herewith application of (list of named inventors),
_	The interior of free horewith approaches of their of manifest inventors),
or	
	The United States application or PCT international application number <u>15/703,577</u> filed on <u>September 13, 2017</u> .
Declaration	
As the below named inventor, I hereby dec	lare that:
The above-identified application ("Applica	tion") was made or authorized by me.
I believe that I am the original inventor or a	an 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
	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 Lii	mited Liability Company of <u>Delaware</u> .
(her	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 inv States, European Patent Office and of all other cou such inventions or discoveries and all rights in a continuations thereof, and to all Letters Patent that	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 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

Page 1 of 2

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.

US Application No.: <u>15/703,577</u>

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.

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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.

David K. Norvell		
LEGAL NAME OF INVENTOR		
(xhut K Monel)	3-27-18	
Signature	Date	

•		
:		Attornoy Docket No.: <u>END6493USDIV2/080592DIV2</u> US Application No.: 15/703,577
c	OMBINED	DECLARATION AND ASSIGNMENT
Title of Invention: <u>ULTRASO</u>		
This declaration and assignment is di	rected to:	
		The attached or filed herewith application of (list of named inventors)
	or	•
	⊠	The United States application or PCT international application number 15/703,577 filed on September 13, 2017.
Declaration		
As the below named inventor	r, I heroby dec	plare that;
The above-identified applica	tion ("Applice	ation") was made or authorized by me.
		an original inventor of a claimed invention or discovery in the Application.
I have reviewed and underst	tood the conte	ents of the Application, including the claims, and I acknowledge the duty to disclose offined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that a imprisonment of not more than five (5	ny willful fals i) years, or bot	se 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 Prailes Industrial Park Guaynabo, Puerto Rico 00969
•	a Lir	mited Liability Company of <u>Delaware</u> .
	(her	einafter designated as the "Assignee"),
I hereby acknowledge that I which is hereby conformed for records	have assigned ation in the US	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 cons assigned and transferred to Assignee;	ideration, the	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Appli States, European Patent Office and a such inventions or discoveries and a continuations thereof, and to all Lette supplementary protection certificates,	ication, all involution, all other cou all rights in some Patent that reexamination or terms for	the Application, including all priority rights for other countries arising therefrom and rentions 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 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

Attorney Docket No.: END6493USDIV2/080592DIV2 US Application No.: 15/703,577

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James R. Giordano LEGAL NAME OF INVENTOR

Page 2 of 2