504449046 07/10/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4495747

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
EITAN T. WIENER	07/26/2016
BENJAMIN J. DANZIGER	09/01/2016
DAVID C. YATES	07/15/2016
KEVIN L. HOUSER	10/05/2016
RYAN M. ASHER	05/10/2017
FREDERICK E. SHELTON IV	05/08/2017
JEFFREY D. MESSERLY	05/16/2017
GEOFFREY S. STROBL	05/11/2017
KRISTEN G. DENZINGER	05/10/2017

## **RECEIVING PARTY DATA**

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

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15177449

### 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: 412-355-6423

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

Address Line 4: PITTSBURGH, PENNSYLVANIA 15222-2613

ATTORNEY DOCKET NUMBER: END7747USNP2/150239-2

REEL: 042952 FRAME: 0445 504449046

PATENT

NAME OF SUBMITTER:	ROBERTO CAPRIOTTI	
SIGNATURE:	/Roberto Capriotti/	
DATE SIGNED:	07/10/2017	
This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 18		
source=Signed_Combined_Declaration_and_Assignment_Documents#page1.tif		
source=Signed_Combined_Declaration_and_Assignment_Documents#page2.tif		

source=Signed Combined Declaration and Assignment Documents#page3.tif source=Signed\_Combined\_Declaration\_and\_Assignment\_Documents#page4.tif source=Signed\_Combined\_Declaration\_and\_Assignment\_Documents#page5.tif source=Signed Combined Declaration and Assignment Documents#page6.tif source=Signed Combined Declaration and Assignment Documents#page7.tif source=Signed\_Combined\_Declaration\_and\_Assignment\_Documents#page8.tif source=Signed Combined Declaration and Assignment Documents#page9.tif source=Signed Combined Declaration and Assignment Documents#page10.tif source=Signed Combined Declaration and Assignment Documents#page11.tif source=Signed\_Combined\_Declaration\_and\_Assignment\_Documents#page12.tif source=Signed Combined Declaration and Assignment Documents#page13.tif source=Signed Combined Declaration and Assignment Documents#page14.tif source=Signed Combined Declaration and Assignment Documents#page15.tif source=Signed\_Combined\_Declaration\_and\_Assignment\_Documents#page16.tif source=Signed\_Combined\_Declaration\_and\_Assignment\_Documents#page17.tif source=Signed Combined Declaration and Assignment Documents#page18.tif

# COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: SURGICAL SYSTEM VENERGY MODALITIES	VITH USER ADAPTABLE TECHNIQUES EMPLOYING MULTIPLE S BASED ON TISSUE PARAMETERS
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors),
or	
$\boxtimes$	The United States application or PCT international application number 15/177,449 filed on June 9, 2016.
Declaration	
As the below named inventor, I hereby de-	clare that:
The above-identified application ("Applic	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 cont information which is material to patentability as d this Application in the United States of America.	ents of the Application, including the claims, and I acknowledge the duty to disclose lefined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful fall 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 oth for filings of this Application in the United States of America.
Assignment	Ethicon Endo-Surgery, LLC #475 Street C Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
aL	imited Liability Company of <u>Delaware</u> .
(he	ereinafter designated as the "Assignee"),
I hereby acknowledge that I have assigne which is hereby conformed for recordation in the U	ed the above-identified invention by previous assignment (attached hereto) to Assignee JS Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the assigned and transferred to Assignee:	ne sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all in States, European Patent Office and of all other couch inventions or discoveries and all rights in continuations thereof, and to all Letters Patent the supplementary protection certificates, reexamination	r the Application, including all priority rights for other countries arising therefrom and inventions or discoveries therein disclosed, and any and all Letters Patent of the United countries, which may be granted for such inventions or discoveries, or any of them, all a such Application including any and all provisionals, substitutions, divisions, and nat may be granted for said inventions and discoveries, and in and to all extensions, cons, 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 ment and sale not been made.
	Page 1 of 2
	,

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 yest 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 INVENTO

Signature 1

7/26/2016

	COMBINED DECLARATION AND ASSIGNMENT
1	itle of Invention: <u>SURGICAL SYSTEM WITH USER ADAPTABLE TECHNIQUES EMPLOYING MULTIPLE</u> <u>ENERGY MODALITIES BASED ON TISSUE PARAMETERS</u>
Т	his 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>15/177,449</u> filed on <u>June 9, 2016</u> .
1	<b>Declaration</b>
	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	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 mprisonment of not more than five (5) years, or both for filings of this Application in the United States of America.
١.	Assignment
	Ethicon Endo-Surgery, LLC #475 Street C
	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:
1	or a special second
	For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:
	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.
1	Page 1 of 2

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.

Benjamin J. Danziger

LEGAL NAME OF INVENTOR

Signature

2-616 SEP \$1

Dat

COMBINED DECLARATION AND ASSIGNMENT	
Title of Invention: SURGICAL SYSTEM WITH USER ADAPTABLE TECHNIQUES EMPLOYING MULTIPLE ENERGY MODALITIES BASED ON TISSUE PARAMETERS	
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>15/177,449</u> filed on <u>June 9, 2016</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.	
Assignment  Ethicon Endo-Surgery, LLC  #475 Street C  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:	
or .	
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	

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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.

David C. Yates

LEGAL NAME OF INVENTOR

Signature

7/15/16

Date

# COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: SURGICAL SYSTEM WITH USER ADAPTABLE TECHNIQUES EMPLOYING MI ENERGY MODALITIES BASED ON TISSUE PARAMETERS	<u>ULTIPLE</u>
This declaration and assignment is directed to:	
The attached or filed herewith application of (list of named inve	entors),
or	
The United States application or PCT international application number 15/177,449 filed on June 9, 2016.	
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 Ap	plication.
I have reviewed and understood the contents of the Application, including the claims, and I acknowledge information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations this Application in the United States of America.	e the duty to disclose s, §1.56 for filings of
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S imprisonment of not more than five (5) years, or both for filings of this Application in the United States of America.	c.C. § 1001 by fine or
Assignment	
Ethicon Endo-Surgery, LLC #475 Street C	
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 assigned the above-identified invention by previous assignment (attached which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:	d hereto) to Assignee
or	
For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and assigned and transferred to Assignee:	transfer and/or have
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries at the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries such inventions or discoveries and all rights in such Application including any and all provisionals, substitute continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in a supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assand enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entire have been held and enjoyed by me had this assignment and sale not been made.	s Patent of the United is, or any of them, all itions, divisions, and and to all extensions, signee for its own use
Page 1 of 2	

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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.

Keyen L. Houser

LEGAL NAME OF INVENTOR

Signature

Data

	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention:		TTH USER ADAPTABLE TECHNIQUES EMPLOYING MULTIPLE BASED ON TISSUE PARAMETERS
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 15/177,449 filed on June 9, 2016.
Declaration		
As the below n	amed inventor, I hereby decl	lare that:
The above-iden	itified application ("Applicat	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.
information which is ma		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		PROFESSION AND ASSESSION AND ASSESSION AND ASSESSION ASS
		Ethicon Endo-Surgery, LLC #475 Street C
	-	Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
• .	a Lir	mited Liability Company of Delaware.
		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 assigned and transferred		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priorit States, European Patent such inventions or disc continuations thereof, a supplementary protection and enjoyment to the ful	ty to the Application, all invit Office and of all other concoveries and all rights in and to all Letters Patent that n certificates, reexamination ll end of the term 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 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

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.

Ryan M. Asher LEGAL NAME OF INVENTOR	, .
Arther the second	05/10/2017
Signature	Date

	COMBINED DECLARATION AND ASSIGNMENT
	SURGICAL SYSTEM WITH USER ADAPTABLE TECHNIQUES EMPLOYING MULTIPLE ENERGY MODALITIES BASED ON TISSUE PARAMETERS
This declaration and assig	nment 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>15/177,449</u> filed on <u>June 9, 2016</u> .
Declaration	
As the below nan	ned inventor, I hereby declare that:
The above-identi	fied application ("Application") was made or authorized by me.
I believe that I an	n the original inventor or an original inventor of a claimed invention or discovery in the Application.
	and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose erial to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of sited States of America.
	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or than five (5) years, or both for filings of this Application in the United States of America.
Assignment	
	Ethicon Endo-Surgery, LLC #475 Street C
•	Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Limited Liability Company of Delaware.
.*	(hereinafter designated as the "Assignee"),
☐ I hereby acknowl which is hereby conformed	ledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee d for recordation in the US Patent Office and I confirm I have and do assign and transfer:
or .	
For good and va	aluable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have a Assignee:
the right to claim priority States, European Patent ( such inventions or disco- continuations thereof, and supplementary protection and enjoyment to the full	interest in, to, and under the Application, including all priority rights for other countries arising therefrom and to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all veries and all rights in such Application including any and all provisionals, substitutions, divisions, and it to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would be me had this assignment and sale not been made.
	Page 1 of 2

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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.

Frederick E. Shelton, IV

LEGAL NAME OF INVENTOR

Signature

Date

COMBINED DECLARATION AND ASSIGNMENT				
Title of Invention: SURGICAL SYSTEM WITH USER ADAPTABLE TECHNIQUES EMPLOYING MULTIPLE ENERGY MODALITIES BASED ON TISSUE PARAMETERS				
This declaration and assignment is directed to:				
The attached or filed herewith application of (list of named inventors)	د			
or				
The United States application or PCT international application number 15/177,449 filed on June 9, 2016.				
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 disclinformation which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings this Application in the United States of America.	ose			
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine imprisonment of not more than five (5) years, or both for filings of this Application in the United States of America.	or			
Assignment				
Ethicon Endo-Surgery, LLC #475 Street C				
Los Frailes Industrial Park Guaynabo, Puerto Rico 00969	t			
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:				
or				
For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or hassigned and transferred to Assignee:	ave			
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom a the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the Uni States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, a 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 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 we have been held and enjoyed by me had this assignment and sale not been made.	all and ons, use			
Page 1 of 2				

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.

Jeffrey D. Messerly

LEGAL NAME OF INVENTOR

Signature

5/16/2017

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or					
For good and assigned and transferred		sufficiency of which is acknowledged, I hereby assign and transfer and/or have			
the right to claim priority States, European Patent such inventions or discontinuations thereof, a supplementary protection and enjoyment to the ful-	ty to the Application, all invit Office and of all other concoveries and all rights in and to all Letters Patent that a certificates, reexamination and of the term or terms for the content of the term or terms for the term of the term	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 at 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.			
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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.

Geoffrey S. Strobl

LEGAL NAME OF INVENTOR

Signature

Date

5/11/2017

COMBINED DECLARATION AND ASSIGNMENT					
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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					

Attorney Docket No.: END7747USNP2/150239-2

US Application No.: 15/177,449

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LEGAL NAME			
Kusto:	G. Dyn	_5/10/17	
Signature		Date	