PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4718130

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EITAN T. WIENER	07/01/2015
JEFFREY L. ALDRIDGE	05/29/2015
JAMES R. GIORDANO	06/30/2015
FOSTER B. STULEN	06/10/2015

RECEIVING PARTY DATA

Name:	ETHICON ENDO-SURGERY, INC.		
Street Address:	4545 CREEK ROAD		
City:	CINCINNATI		
State/Country:	OHIO		
Postal Code:	45242		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14715305

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:	END6673USDIV1/100558DIV1	
NAME OF SUBMITTER: ROBERTO CAPRIOTTI		
SIGNATURE:	/Roberto Capriotti/	
DATE SIGNED:	12/05/2017	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
·		

Total Attachments: 8

PATENT REEL: 044299 FRAME: 0115

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PATENT REEL: 044299 FRAME: 0116

Attorney Docket No.: END6673USDIV1/100558DIV1
US Application No.: 14/715,305

COMBINED DECLARATION AND ASSIGNMENT

TITLE of Invention; SURGICAL GENERATOR FOR ULTRASONIC AND ELECTROSURGICAL DEVICES

As the below named inventor, I he	ereby dec	clare that:
This declaration is directed to:		The attached application, or
		The United States application or PCT international application number <u>14/715,305</u> filed on <u>May 18, 2015</u> .
The above-identified application ("Applica	ation") was made or authorized by me.
I believe that I am the original inv	entor or	an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood information which is material to patentabithis Application in the United States of Ar	lity as de	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 w imprisonment of not more than five (5) year	illful fals	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.
For good and valuable considera and/or have sold, assigned, transferred and		sufficiency of which is acknowledged, I hereby sell, assign, transfer and set over to to:
		Ethicon Endo-Surgery, Inc.
		4545 Creek Road
		Cincinnati, Ohio 45242
	A co	rporation of the state or country of Ohio
for other countries arising therefrom, all in European Patent Office and of all other co- them, all such inventions or discoveries an thereof, and to all Letters Patent that may protection certificates, reexaminations, ren	nventions untries, id all right be grantewals, and the such	re right, title, and interest in, to, and under the Application, including all priority rights or discoveries therein disclosed, and any and all Letters Patent of the United States, including Canada, which may be granted for such inventions or discoveries, or any of its in such Application including any and all substitutions, divisions, and continuations ated for said inventions and discoveries, and in and to all extensions, supplementary and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment Letters Patent may be granted, as fully and entirely as the same would have been held not been made.
European Patent Office and any other foreign of any of such applications, and any paten	gn count t term ex	n connection with the Application in the United States, Patent Cooperation Treaty, tries and any continuing, divisional, or reissue applications thereof, any reexamination tensions or supplementary protection certificates of any such applications and also to ch applications as the Assignee may deem necessary or expedient.
United States, Patent Cooperation Treaty, continuation, divisional, or reissue applic therefrom and any patent term extensions	European ations th or supp	connection with any litigation or any other administrative or judicial proceeding in the n Patent Office and any other foreign countries concerning the Application(s) or any recof, or any reexamination of any such applications, or any Letters Patent issued lementary protection certificates of any such applications and to cooperate with the ce and going forward with such litigation or proceeding.

Attorney Docket No.: <u>END6673USDIV1/100558DIV1</u> US Application No.: <u>14/715,305</u>

I agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I agree to 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, 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 the said Assignee, and (ii) as Assignee of the entire interest, and hereby 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	7/1/15 Date
ACKNO STATE OF <u>OHIO</u> }	WLEDGMENT
	or said County and State. Witness my hand and Notarial Seal
KARA N. TULANKO Notary Public, State of Ohio My Commission Expires May 31, 2019	Notary Public Kara N. Tulanko Printed Name
My commission expires: May 31, 2019	

US Application No.: 14/715,305

COMBINED DECLARATION AND ASSIGNMENT

TITLE of Invention:	SURGICAL GENERATOR FOR ULTRASONIC AND ELECTROSURGICAL DEVICES

As the below named i	nventor, I he	eby decla	are that:
This declaration is dir	ected to:		The attached application, or
		\boxtimes	The United States application or PCT international application number 14/715,305 filed on May 18, 2015.
The above-identified	application ("	Applicati	ion") was made or authorized by me.
I believe that I am the	original inve	ntor or a	n original inventor of a claimed invention or discovery in the Application.
I have reviewed and information which is material this Application in the United	to patentabili	ty as def	ts of the Application, including the claims, and I acknowledge the duty to disclose ined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge imprisonment of not more than	that any wil five (5) year	lful false s, or both	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.
For good and valuable and/or have sold, assigned, trans			ufficiency of which is acknowledged, I hereby sell, assign, transfer and set over to
			Ethicon Endo-Surgery, Inc.
			4545 Creek Road

A corporation of the state or country of Ohio

Cincinnati, Ohio 45242

(hereinafter designated as the "Assignee"), my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, including Canada, 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 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 them had this assignment and sale not been made.

I agree to execute all papers necessary in connection with the Application in the United States, Patent Cooperation Treaty, European Patent Office and any other foreign countries 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 agree to execute all papers necessary in connection with any litigation or any other administrative or judicial proceeding in the United States, Patent Cooperation Treaty, European Patent Office and any other foreign countries 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 and 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.

Attorney Docket No.: END6673USDIV1/100558DIV1
US Application No.: 14/715,305

I agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I agree to 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, 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 the said Assignee, and (ii) as Assignee of the entire interest, and hereby 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 L. Aldridge LEGAL NAME OF INVENTOR Jeffrey L. Aldridge Signature	5-29-/5 Date
ACKNO	WLEDGMENT
STATE OF OHIO } SS: COUNTY OF HAMILTON	r said County and State. Witness my hand and Notarial Seal
this 29th day of May ,20	
Notary Public, State of Ohio My Commission Expires May 31, 2019	Kara N. Tulanko Printed Name
My commission expires: May 31, 2019	

Attorney Docket No.: <u>END6673USDIV1/100558DIV1</u>
US Application No.: <u>14/715,305</u>

COMBINED DECLARATION AND ASSIGNMENT

COM	DII (EZZ	
TITLE of Invention: SURGICAL GENE	RATOR	FOR ULTRASONIC AND ELECTROSURGICAL DEVICES
As the below named inventor, I h	ereby dec	lare that:
This declaration is directed to:		The attached application, or
	\boxtimes	The United States application or PCT international application number 14/715,305 filed on May 18, 2015.
The above-identified application (("Applica	tion") was made or authorized by me.
I believe that I am the original inv	entor or	an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood information which is material to patentabithis Application in the United States of Ar	lity as de	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 w imprisonment of not more than five (5) year	illful fals ırs, or bot	te 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.
For good and valuable considera and/or have sold, assigned, transferred and		sufficiency of which is acknowledged, I hereby sell, assign, transfer and set over to to:
		Ethicon Endo-Surgery, Inc. 4545 Creek Road Cincinnati, Ohio 45242
	A con	rporation of the state or country of Ohio
for other countries arising therefrom, all in European Patent Office and of all other co them, all such inventions or discoveries an thereof, and to all Letters Patent that may protection certificates, reexaminations, ren	nventions untries, in all right be grandewals, and ch such l	re right, title, and interest in, to, and under the Application, including all priority rights or discoveries therein disclosed, and any and all Letters Patent of the United States, including Canada, which may be granted for such inventions or discoveries, or any of its in such Application including any and all substitutions, divisions, and continuations ted for said inventions and discoveries, and in and to all extensions, supplementary divisions thereof, to be held and enjoyed by Assignee for its own use and enjoyment Letters Patent may be granted, as fully and entirely as the same would have been held of been made.
European Patent Office and any other foreit of any of such applications, and any paten	gn count t term ex	n connection with the Application in the United States, Patent Cooperation Treaty, ries and any continuing, divisional, or reissue applications thereof, any reexamination tensions or supplementary protection certificates of any such applications and also to the applications as the Assignee may deem necessary or expedient.
United States, Patent Cooperation Treaty, continuation, divisional, or reissue applic therefrom and any patent term extensions	European ations the or suppl	onnection with any litigation or any other administrative or judicial proceeding in the a Patent Office and any other foreign countries concerning the Application(s) or any ereof, or any reexamination of any such applications, or any Letters Patent issued lementary protection certificates of any such applications and to cooperate with the er and going forward with such litigation or proceeding.

US Application No.: 14/715,305

. I agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I agree to 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, 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 the said Assignee, and (ii) as Assignee of the entire interest, and hereby 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.

LEGAL NAME OF INVENTOR Signature	D6/30/15
ACKI	NOWLEDGMENT
STATE OF OHIO } } SS: COUNTY OF HAMILTON	
2.4	d for said County and State. Witness my hand and Notarial Seal
KARA N. TULANKO Notary Public, State of Ohio My Commission Expires May 31, 2019	Notary Public Kara N. Tulanko Printed Name
My commission expires: May 31, 2019	

US Application No.: 14/715,305

COMBINED DECLARATION AND ASSIGNMENT

TITLE of Invention:	SURGICAL	GENERATOR	FOR ULTR	ASONIC AND	ELECTROSURG	ICAL DEVICES

As the below named inventor, I hereby declare that:

This declaration is directed to:

The attached application, or

The United States application or PCT international application number 14/715,305 filed on May 18, 2015.

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.

For good and valuable consideration, the sufficiency of which is acknowledged, I hereby sell, assign, transfer and set over to and/or have sold, assigned, transferred and set over to:

Ethicon Endo-Surgery, Inc. 4545 Creek Road Cincinnati, Ohio 45242

A corporation of the state or country of Ohio

(hereinafter designated as the "Assignee"), my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, including Canada, 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 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 them had this assignment and sale not been made.

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US Application No.: 14/715,305

I agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I agree to 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, 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.

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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.

Foster B. Stulen LEGAL NAME OF INVENTOR	<u></u>
Signature B Stur	0/10/2015 Date
ACV	NOWLEDGMENT
STATE OF OHIO } SS: COUNTY OF HAMILTON	ATO WELLOUILINE
Acknowledged before me, a Notary Public, within an day of	nd for said County and State. Witness my hand and Notarial Seal
My commission expires: May 31, 2019	
	2 of 2

RECORDED: 12/05/2017

PATENT REEL: 044299 FRAME: 0124