01/06/2017 504166789

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4213466

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SEAN P. CONLON	07/25/2016
JACOB S. GEE	09/07/2016
FOSTER B. STULEN	07/14/2016
WILLIAM D. DANNAHER	07/26/2016
WILLIAM A. OLSON	07/28/2016

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:	14789744

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

CARA M. PINTO **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: END7458USNP/140120	
NAME OF SUBMITTER:	CARA M. PINTO
SIGNATURE:	/Cara M. Pinto/
DATE SIGNED:	01/06/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

PAIENI REEL: 040870 FRAME: 0396

504166789

Total Attachments: 10 source=END7458USNP ComboDecAsnEES#page1.tif source=END7458USNP ComboDecAsnEES#page2.tif source=END7458USNP ComboDecAsnEES#page3.tif source=END7458USNP ComboDecAsnEES#page4.tif source=END7458USNP ComboDecAsnEES#page5.tif source=END7458USNP ComboDecAsnEES#page6.tif source=END7458USNP ComboDecAsnEES#page7.tif source=END7458USNP ComboDecAsnEES#page8.tif source=END7458USNP ComboDecAsnEES#page9.tif source=END7458USNP ComboDecAsnEES#page9.tif source=END7458USNP ComboDecAsnEES#page9.tif

PATENT REEL: 040870 FRAME: 0397

Attorney Docket No.: <u>END7458USNP/140120</u> US Application No.:<u>14/789,744</u>

COMBINED DECLARATION AND ASSIGNMENT

TITLE of Invention: <u>ULTRASONIC SURGICAL BLADE WITH IMPROVED CUTTING AND COAGULATION FEATURES</u>

	As the below named inventor, I have	ereby dec	lare that:
	This declaration is directed to:		The attached application, or
		\boxtimes	The United States application or PCT international application number <u>14/789,744</u> filed on <u>July 1, 2015</u> .
	The above-identified application	("Applica	tion") was made or authorized by me.
	I believe that I am the original inv	entor or a	an original inventor of a claimed invention or discovery in the Application.
informa this Ap	I have reviewed and understood ation which is material to patentable oplication in the United States of Ar	lity 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
impriso	I hereby acknowledge that any womment of not more than five (5) year	illful fals ars, or bot	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.
and/or l	For good and valuable considera have sold, assigned, transferred and	tion, the	sufficiency of which is acknowledged, I hereby sell, assign, transfer and set over to to:
		•	Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico
		a Li	mited Liability Company of Delaware.
for other Europesthem, a thereof, protection the fo	er countries arising therefrom, all is an Patent Office and of all other could be such inventions or discoveries and and to all Letters Patent that may concertificates, reexaminations, ren	nventions ountries, in all right y be grantewals, and ich such I	e 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 difference 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.
of any	an Patent Office and any other fore of such applications, and any pater	ign count it 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.
continu therefro	States, Patent Cooperation Treaty, ation, divisional, or reissue applic	European ations the s or suppl	connection 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 see and going forward with such litigation or proceeding.

US Application No.: 14/789,744

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.

Sean P. Conlon	
LEGAL NAME OF INVENTOR	
a th	07/25/2016
Signature	Date
•	
ACKN	OWLEDGMENT
STATE OF OHIO	
} SS: COUNTY OF <u>HAMILTON</u> }	
	for said County and State. Witness my hand and Notarial Seal
STARYPURE	Larah Turlanto
* KARA N. TULANKO Notary Public, State of Ohio	Notary Public
My Commission Expires May 31, 2019	KARA N. TULANKO
TEOFOY	Printed Name
My commission expires: May 31, 2019	

US Application No.: 14/789,744

COMBINED DECLARATION AND ASSIGNMENT

TITLE of Invention: <u>ULTRASONIC SURGICAL BLADE WITH IMPROVED CUTTING AND COAGULATION FEATURES</u>

	As the below named inventor, I h	ereby dec	lare that:
	This declaration is directed to:		The attached application, or
٠			The United States application or PCT international application number <u>14/789,744</u> filed on <u>July 1, 2015</u> .
	The above-identified application	("Applicat	tion") was made or authorized by me.
	I believe that I am the original in	ventor or a	n original inventor of a claimed invention or discovery in the Application.
		ility 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
impriso			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.
and/or h	For good and valuable considerance sold, assigned, transferred and		sufficiency of which is acknowledged, I hereby sell, assign, transfer and set over to o:
			Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico
		a Lin	nited Liability Company of <u>Delaware</u> .
for othe Europea them, al thereof, protection to the fu	or countries arising therefrom, all it an Patent Office and of all other could such inventions or discoveries and and to all Letters Patent that may on certificates, reexaminations, rem	nventions ountries, in all right y be grant newals, and ich such L	e 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, acluding Canada, which may be granted for such inventions or discoveries, or any of in such Application including any and all substitutions, divisions, and continuations ed for said inventions and discoveries, and in and to all extensions, supplementary direissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment exters Patent may be granted, as fully and entirely as the same would have been held at been made.
of any o	in Patent Office and any other fore of such applications, and any paten	ign countr t term ext	connection with the Application in the United States, Patent Cooperation Treaty, ies and any continuing, divisional, or reissue applications thereof, any reexamination ensions or supplementary protection certificates of any such applications and also to applications as the Assignee may deem necessary or expedient.
continua therefron	States, Patent Cooperation Treaty, ation, divisional, or reissue applicem and any patent term extensions	European ations the or supple	numection with any litigation or any other administrative or judicial proceeding in the Patent Office and any other foreign countries concerning the Application(s) or any reof, or any reexamination of any such applications, or any Letters Patent issued ementary protection certificates of any such applications and to cooperate with the e and going forward with such litigation or proceeding.

Attorney Docket No.: END7458USNP/140120 US Application No.:14/789,744

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.

Jacob S. Gee LEGAL NAME OF INVENTOR	
Signature Her	Date Office 16
V	
ACKI	NOWLEDGMENT
STATE OF <u>OHIO</u> } } SS: COUNTY OF <u>HAMILTON</u> }	
Acknowledged before me, a Notary Public, within an anis day of day of	d for said County and State. Witness my hand and Notarial Seal 3-7-16
KARA N. TULANKO Notary Public, State of Ohio My Commission Expires May 31, 2019	Marak Julanko Notary Public KARA H. TULANKO
My commission expires: May 31, 2019	Printed Name

US Application No.: 14/789,744

COMBINED DECLARATION AND ASSIGNMENT

	TITLE of Invention: I	ULTRASONIC SURGICAL BL.	ADE WITH IMPROVED	CUTTING AND COAGU	LATION FEATURES
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As the below named inventor, I hereby declare that:		clare that:	
	This declaration is directed to:		The attached application, or
		\boxtimes	The United States application or PCT international application number <u>14/789,744</u> filed on <u>July 1, 2015</u> .

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, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico

a Limited Liability Company of Delaware.

(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.

US Application No.: 14/789,744

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.

Foster	В.	Stulen

LEGAL NAME OF INVENTOR

Signature

7/14/2016

ACKNOWLEDGMENT

STATE OF

OHIO

SS:

COUNTY OF

HAMILTON}

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal

this

KARA N. TULANKO Notary Public, State of Ohio My Commission Expires

May 31, 2019

Printed Name

My commission expires: May 31, 2019

US Application No.:14/789,744

COMBINED DECLARATION AND ASSIGNMENT

TITLE of Invention: ULTRASONIC SURGICAL BLADE WITH IMPROVED CUTTING AND COAGULATION FEATURES

As the below named inventor, I h	he 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 <u>14/789,744</u> filed on <u>July 1, 2015</u> .	

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a Limited Liability Company of Delaware.

(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.: 14/789,744

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William D. Dannaher LEGAL NAME OF INVENTOR William Signature	7/26/16 Date
ACKI	NOWLEDGMENT
STATE OF OHIO } SS: COUNTY OF HAMILTON Acknowledged before me, a Notary Public, within an	d for said County and State. Witness my hand and Notarial Seal
	Harah Julanko Notary Public Hara N. Tulanko Printed Name
My commission expires: May 31, 2019	

Attorney Docket No.: <u>END7458USNP/140120</u> US Application No.:<u>14/789,744</u>

COMBINED DECLARATION AND ASSIGNMENT

TITLE of Invention: <u>ULTRASONIC SUF</u>	RGICAL	BLADE WITH IMPROVED CUTTING AND COAGULATION FEATURES				
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		Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico				
	a Li	mited Liability Company of Delaware.				
or other countries arising therefrom, all in European Patent Office and of all other co hem, all such inventions or discoveries and hereof, and to all Letters Patent that may protection certificates, reexaminations, ren	nventions untries, id all right be grant ewals, ar ch 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 ot been made.				
European Patent Office and any other foreign and any patential and any other foreign and any patential and any other foreign and a	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 ch applications as the Assignee may deem necessary or expedient.				
Jnited States, Patent Cooperation Treaty, continuation, divisional, or reissue applications and any patent term extensions	European ations th or supp	connection 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 ce and going forward with such litigation or proceeding.				

1 of 2

PATENT REEL: 040870 FRAME: 0406

US Application No.: 14/789,744

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William A. Olson LEGAL NAME OF INVENTOR	
Signature	
	ACKNOWLEDGMENT
STATE OF OHIO } SS: COUNTY OF HAMILTON	
i fi	ithin and for said County and State. Witness my hand and Notarial Seal
KARA N. TULANKO	Karah Julanles
Notary Public, State of Ohio My Commission Expires May 31, 2019	Notary Public KARA KI. TULANKO
TE OF OV	Printed Name
My commission expires: <u>May 31</u> 2019	
	2 of 2

PATENT REEL: 040870 FRAME: 0407

RECORDED: 01/06/2017