### 505145598 10/17/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5192364

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
AMRITA S. SAWHNEY	10/08/2018
STEPHEN M. LEUCK	10/08/2018
BRIAN D. BLACK	10/05/2018
ERIC M. ROBERSON	10/08/2018

### **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:	16144351

#### **CORRESPONDENCE DATA**

**Fax Number:** (412)355-6501

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** (412) 355-8276

**Email:** piuspatents@klgates.com

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

Address Line 4: PITTSBURGH, PENNSYLVANIA 15222-2613

ATTORNEY DOCKET NUMBER: END8560USNP4/180106-4	
NAME OF SUBMITTER:	CARA M. PINTO
SIGNATURE:	/Cara M. Pinto/
DATE SIGNED:	10/17/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 047196 FRAME: 0354

505145598

## **Total Attachments: 8**

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

Attorney Docket No.; <u>END8560USNP4/180106-4</u>
US Application No.: <u>16/144,351</u>

COMBINED DECLARATION AND ASSIGNMENT		
Title of	Invention: <u>APPLICATION OF SMA</u>	RT ULTRASONIC BLADE TECHNOLOGY
This decl	aration and assignment is directed to:	
	П	The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number 16/144,351 filed on September 27, 2018.
Declara	ıtion	
	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.
informati		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.
Assignı	nent	Makinaa E Eri
		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Li	mited Liability Company of <u>Delaware</u> .
	(her	einafter designated as the "Assignee"),
□ which is	I hereby acknowledge that I have assigned 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 and transferred to Assignee:	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right States, E such invo continuat suppleme and enjoy	to claim priority to the Application, all involute part of the continuous patent Office and of all other contentions or discoveries and all rights in ions thereof, and to all Letters Patent that the protection certificates, reexamination	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Palent of the United untries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and it may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would tent and sale not been made.
		Page 1 of 2

US Application No.: 16/144,351

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.

Amrita S. Sawhney

LEGAL NAME OF INVENTOR

| 10/8/8 | | Date | Da

Page 2 of 2

Attorney Docket No.: END8560USNP4/180106-4 US Application No.: 16/144,351

COMBINED DECLARATION AND ASSIGNMENT			
Title o	Invention: APPLICATION O	F SMAI	RT ULTRASONIC BLADE TECHNOLOGY
This dec	aration and assignment is directed t	o:	
			The attached or filed herewith application of (list of named inventors),
		or	
			The United States application or PCT international application number 16/144.351 filed on September 27, 2018.
Declar	ation		
	As the below named inventor, I her	eby decl	are that:
	The above-identified application (".	Applicat	ion") was made or authorized by me.
	I believe that I am the original inves	ntor or a	n original inventor of a claimed invention or discovery in the Application.
nformat	I have reviewed and understood the ion which is material to patentabilities. Ilication in the United States of Ame	ty as def	its 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
			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.
Assign	ment		
			Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
ś		a Lin	nited Liability Company of <u>Delaware</u> .
		(here	inafter designated as the "Assignee"),
□ which is	I hereby acknowledge that I have a hereby conformed for recordation in	ssigned 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 considerat and transferred to Assignee:	ion, the	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right States, I such inv continual suppleme and enjo	to claim priority to the Application suropean Patent Office and of all of entions or discoveries and all rig ions thereof, and to all Letters Pa- entary protection certificates, reexar	i, all inventer country that in stent that ninations terms for	the Application, including all priority rights for other countries arising therefrom and centions or discoveries therein disclosed, and any and all Letters Patent of the United nations, 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, s, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would not and sale not been made.
			Page 1 of 2

US Application No.: 16/144,351

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.

Stephen M. Leu	ck	***************************************			
LEGAL NAME O					
1	- Juan			8/2018	
Signature /	1		Date	ŧ	

Attorney Docket No.: <u>END8560USNP4/180106-4</u> US Application No.: <u>16/144,351</u>

## COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: <u>APPLICATION OF S</u>	MART ULTRASONIC BLADE TECHNOLOGY
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 16/144.351 filed on September 27, 2018.
Declaration	
As the below named inventor, I hereby	declare that:
The above-identified application ("App	lication") 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.
	ontents of the Application, including the claims, and I acknowledge the duty to disclose a defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of a contract to the contract of the contract
I hereby acknowledge that any willful imprisonment of not more than five (5) years, or	false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or both for filings of this Application in the United States of America.
Assignment	
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
ŧ	a Limited Liability Company of Delaware.
	(hereinafter designated as the "Assignee"),
I hereby acknowledge that I have assig which is hereby conformed for recordation in the	med the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
ON.	
For good and valuable consideration, assigned and transferred to Assignee:	the sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all States, European Patent Office and of all other such inventions or discoveries and all rights continuations thereof, and to all Letters Patent supplementary protection certificates, reexamina	der the Application, including all priority rights for other countries arising therefrom and inventions or discoveries therein disclosed, and any and all Letiers Patent of the United countries, which may be granted for such inventions or discoveries, or any of them, all in such Application including any and all provisionals, substitutions, divisions, and that may be granted for said inventions and discoveries, and in and to all extensions, allows, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use as for which such Letters Patent may be granted, as fully and entirely as the same would gament and sale not been made.
	Page 1 of 2

US Application No.: 16/144,351

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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.

Brian D. Black LEGAL NAME OF INVENTOR	
- Ni Cla	(p/p5/3018
Signature	Date

Page 2 of 2

Attorney Docket No.: END8560USNP4/180106-4 US Application No.: 16/144,351

COMBINED DECLARATION AND ASSIGNMENT		
Fitle of Invention: APPLICATION OF S	SMAR	T ULTRASONIC BLADE TECHNOLOGY
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	J	The attached or filed herewith application of (list of named inventors),
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Declaration		
As the below named inventor, I hereby	y decla	re that:
The above-identified application ("Ap	pplicati	on") was made or authorized by me.
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I hereby acknowledge that any willful false statement made in this deciaration 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 LLC
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	a Lim	ited Liability Company of Delaware.
	(here	inafter designated as the "Assignee"),
I hereby acknowledge that I have assi which is hereby conformed for recordation in the	igned the US	he 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 issigned and transferred to Assignee:	n, the	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority to the Application, a States. European Patent Office and of all other such inventions or discoveries and all rights continuations thereof, and to all Letters Paten supplementary protection certificates, reexaminates.	all inve er cour is in so nt that nations erms fo	e Application, including all priority rights for other countries arising therefrom and ntions or discoveries therein disclosed, and any and all Letters Patent of the United arises, which may be granted for such inventions or discoveries, or any of them, all ach Application including any and all provisionals, substitutions, divisions, and may be granted for said inventions and discoveries, and in and to all extensions, 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 nt and sale not been made.
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US Application No.: 16/144,351

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Eric M. Roberson
LEGAL NAME OF INVENTOR

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10/8/18

Page 2 of 2