505142106 10/15/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5188872

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CAMERON R. NOTT	10/08/2018
FERGUS P. QUIGLEY	10/05/2018
AMRITA S. SAWHNEY	10/08/2018
STEPHEN M. LEUCK	10/08/2018
BRIAN D. BLACK	10/05/2018
ERIC M. ROBERSON	10/08/2018
KRISTEN G. DENZINGER	10/04/2018
PATRICK J. SCOGGINS	09/28/2018
CRAIG N. FALLER	10/04/2018
MADELEINE C. JAYME	10/04/2018
JACOB S. GEE	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:	16144335

CORRESPONDENCE DATA

(412)355-6501 Fax Number:

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 Address Line 2: **K&L GATES CENTER**

REEL: 047238 FRAME: 0731 505142106

PATENT -

Address Line 4: PIT	PITTSBURGH, PENNSYLVANIA 15222-2613		
ATTORNEY DOCKET NUMBER:	END8560USNP1/180106-1M		
NAME OF SUBMITTER:	CARA M. PINTO		
SIGNATURE:	/Cara M. Pinto/		
DATE SIGNED:	10/15/2018		
	This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 22

source=signed combined declarations-assignments#page1.tif source=signed combined declarations-assignments#page2.tif source=signed combined declarations-assignments#page3.tif source=signed combined declarations-assignments#page4.tif source=signed_combined_declarations-assignments#page5.tif source=signed_combined_declarations-assignments#page6.tif source=signed_combined_declarations-assignments#page7.tif source=signed combined declarations-assignments#page8.tif source=signed_combined_declarations-assignments#page9.tif source=signed_combined_declarations-assignments#page10.tif source=signed_combined_declarations-assignments#page11.tif source=signed combined declarations-assignments#page12.tif source=signed combined declarations-assignments#page13.tif source=signed_combined_declarations-assignments#page14.tif source=signed combined declarations-assignments#page15.tif source=signed combined declarations-assignments#page16.tif source=signed combined declarations-assignments#page17.tif source=signed combined declarations-assignments#page18.tif source=signed combined declarations-assignments#page19.tif source=signed combined declarations-assignments#page20.tif source=signed combined declarations-assignments#page21.tif source=signed_combined_declarations-assignments#page22.tif

COMBINEI	DECLARATION AND ASSIGNMENT
Title of Invention: METHODS FOR CONT	ROLLING TEMPERATURE IN ULTRASONIC DEVICE
This declaration and assignment is directed to:	현실 경기 등 발표 발표 전 경기 기업을 받는 것이 되었다. 그는 경기 등 전 기업을 받는 것이 되었다. 그는 경기 등 경기
	The attached or filed herewith application of (list of named inventors)
	크로 보이 사용하는 호텔 전에 되는 것이 되면 함께 되면 함께 되었다.
×	The United States application or PCT international application number 16/144,335 filed on September 27, 2018.
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 contribution which is material to patentability as dithis Application in the United States of America.	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 willful fal- 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 th 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
āLi	mited Liability Company of <u>Delaware</u> .
(be	reinafter designated as the "Assignee"),
I hereby acknowledge that I have assigned which is hereby conformed for recordation in the U	I the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
	, 보드는 이 이번, 전에도 그 경에는 사진, 전에 대략 (1) 이 교육에 되었다.
For good and valuable consideration, the assigned and transferred to Assignee:	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority to the Application, all in- States. European Patent Office and of all other co- such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent that supplementary 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 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 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.: 16/144,335

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.

Cameron R. Nott

LEGAL NAME OF INVENTOR

Signature

10/08/2018

COMBINE	D DECLARATION AND ASSIGNMENT
Title of Invention: METHODS FOR CON	FROLLING TEMPERATURE IN ULTRASONIC DEVICE
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 16/144,335 filed on September 27, 2018.
Declaration	고, 2000년 중에 대한 경기 전에 가장 이 시간에 가장 현실이 가장 하는 것이 되었다. 그는 것을 받았다. - 기업
As the below named inventor, I hereby d	eclare that:
The above-identified application ("Appli	cation") was made or authorized by me.
I believe that I am the original inventor o	r an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood the con information which is material to patentability as this Application in the United States of America.	ttents of the Application, including the claims, and I acknowledge the duty to disclose defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful fa imprisonment of not more than five (5) years, or b	alse statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or ooth for filings of this Application in the United States of America.
Assignment	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
a. I	imited Liability Company of <u>Delaware</u> .
(6	ereinafter designated as the "Assignee"),
	ed the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
For good and valuable consideration, the same of the same is assigned and transferred to Assignee:	he 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 continuations 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 niventions or discoveries therein disclosed, and any and all Letters Patent of the United ountries, 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, ons, 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.

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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.

Fergus P. Quigley			
LEGAL NAME OF INVENTOR			
tyw dufly	34 V	10/5/10	
Signature O	Date		

	COMBINED DECLARATION AND ASSIGNMENT
Title of Invention: METHOL	DS FOR CONTROLLING TEMPERATURE IN ULTRASONIC DEVICE
This declaration and assignment is	directed to:
	The attached or filed herewith application of (list of named inventors),
	☐ The United States application or PCT international application number 16/144,335 filed on September 27, 2018.
Declaration	- 이 제 발생하는데 보통 그리고 있는데 보통에 왜 살아 보면 생생이다. 이 그는 생생은 그림 그런 모르지 하는데
As the below named inver	itor, I hereby declare that:
The above-identified appli	ication ("Application") was made or authorized by me.
I believe that I am the orig	ginal inventor or an original inventor of a claimed invention or discovery in the Application.
I have reviewed and unde information which is material to puthis Application in the United State	erstood the contents of the Application, including the claims, and I acknowledge the duty to disclose atentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of es of America.
I hereby acknowledge tha imprisonment of not more than five	t any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or (5) years, or both for filings of this Application in the United States of America.
Assignment	으로 통해 및 기계로 통해 기계 전혀 기료하는 것이 되었다. 그는 그들은 기계에 가장 보는 것이 되었다.
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Limited Liability Company of <u>Delaware.</u>
	(hereinafter designated as the "Assignee"),
	t I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee ordation in the US Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable coassigned and transferred to Assigned	onsideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have e:
the right to claim priority to the Ap States, European Patent Office and such inventions or discoveries an continuations thereof, and to all L supplementary protection certificate and enjoyment to the full end of the	n, to, and under the Application, including all priority rights for other countries arising therefrom and oplication, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United of all other countries, which may be granted for such inventions or discoveries, or any of them, all d all rights in such Application including any and all provisionals, substitutions, divisions, and etters Patent that may be granted for said inventions and discoveries, and in and to all extensions, es, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use term or terms for which such Letters Patent may be granted, as fully and entirely as the same would had this assignment and sale not been made.
	Page 1 of 2

US Application No.: 16/144,335

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.

Amrita S. Sawhney

LEGAL NAME OF INVENTOR

Signature

Date

	CO	MBINEI	DECLARATION AND ASSIGNMENT
Titl	e of Invention: <u>METHODS F</u>	OR CONT	ROLLING TEMPERATURE IN ULTRASONIC DEVICE
	declaration and assignment is direc		
		П	The attached or filed herewith application of (list of named inventors),
		or	가 있는 것이 하는 사람들이 되었다. 그는 그 보고 있는 것이 함께 함께 한 생활을 받을 것이 하는 것이 하는 것이 없었다. 그런 함께 하는 것이 되었다. 그는 사람들이 되었다. 그는 것이 되었다. 그는 사람들이 있는 것이 없는 사람들이 되었다. 그런 그런 그런 그런 그런 그런 것이 되었다. 그런 것이 되었다. 그는 사람들이 되었다. 그는 것이 되었다. 그런 것이 되었다.
		⊠	The United States application or PCT international application number 16/144,335 filed on September 27, 2018.
Dec	laration		- 프로젝트 (1982년 - 1982년 - 1982년 - 1982년 - 1982
	As the below named inventor, I	hereby de	clare that:
	The above-identified applicatio	n ("Applic	ation") was made or authorized by me.
	I believe that I am the original i	nventor or	an original inventor of a claimed invention or discovery in the Application,
	I have reviewed and understoo mation which is material to patenta Application in the United States of	bility as d	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 fillings of
mpr	I hereby acknowledge that any isonment of not more than five (5) y	willful fal	se statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or the things of this Application in the United States of America.
Assi	gnment		
			Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
		аL	imited Liability Company of <u>Delaware</u> ,
		(he	reinafter designated as the "Assignee"),
] vhicl	I hereby acknowledge that I han is hereby conformed for recordation	ve assigned on in the U	d the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
r			도로는 이번 프랑케이트를 가는 것이 하는데 이번 하게 되고 바로 모르고 있다. 2012년 후에 자기를 가는 기를 다르지 않는데 이번 2017년 기를 보고 있다.
⊠ ssigi	For good and valuable considned and transferred to Assignee:	eration, the	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he ri states uch ontir uppl nd e	ght to claim priority to the Applica s, European Patent Office and of a inventions or discoveries and all muations thereof, and to all Letters ementary protection certificates, re-	tion, all in Il other co rights in Patent the examination or terms	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, ns, 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 nent and sale not been made.
			Page 1 of 2

US Application No.: 16/144,335

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.

Stephen M. Leuck			이 하다 그는 이 작품들이 없다는 사람들이 되어 있다.
LEGAL NAME OF INVENTOR			
	1		
Sten -		10	0/8/2018
Cimpatura /		Date	

COMBINI	ED DECLARATION AND ASSIGNMENT
Title of Invention: METHODS FOR CON	TROLLING TEMPERATURE IN ULTRASONIC DEVICE
This declaration and assignment is directed to:	등 하는 사람들이 많아 있는데 그는 말라면서 그 마음을 하를 하는 것이 모르는 말로 보는데 말로 보다.
	The attached or filed herewith application of (list of named inventors),
or.	
	The United States application or PCT international application number 16/144,335 filed on September 27, 2018.
Declaration	
As the below named inventor, I hereby o	leclare that:
The above-identified application ("Appl	ication") was made or authorized by me.
I believe that I am the original inventor o	or an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood the co- information which is material to patentability as this Application in the United States of America.	ntents of the Application, including the claims, and I acknowledge the duty to disclose defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
	alse 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
	Limited Liability Company of <u>Delaware</u> .
	nereinafter designated as the "Assignee"),
I hereby acknowledge that I have assign which is hereby conformed for recordation in the	ned the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
	로 . 1 章 시 마루 등 시 마시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시
For good and valuable consideration, tassigned 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 of such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent to supplementary protection certificates, reexaminat.	or 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 n 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, ions, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use is for which such Letters Patent may be granted, as fully and entirely as the same would ament and sale not been made.
	Page 1 of 2
	그는 생님, 그리, 프랑스 프로그램 그래요 그 보다는 그를 모르는 것이 없는데 그렇게 되었다.

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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Brian D. Black			시 말로 맞으면 하시는 것이 어때 그를 보다니다.
LEGAL NAME OF INVENTOR			
0 101			
The state of the s	All the second of the second o		10/05/2018
Signature		Date	

	DECLARATION AND ASSIGNMENT
Title of Invention: METHODS FOR CONT	ROLLING TEMPERATURE IN ULTRASONIC DEVICE
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 16/144,335 filed on September 27, 2018.
Declaration	경기 경기 경기 보는 사람이 바람이 이 기계에 가장 하는 것이 되었다. 그는 그 모든 것을 하는 것이 되었다.
As the below named inventor, I hereby de	clare that:
The above-identified application ("Application (Application (Applicati	cation") 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 cominformation which is material to patentability as of this Application in the United States of America.	tents 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 fa imprisonment of not more than five (5) years, or be	is statement made in this declaration is punishable under $18 \text{ U.S.C. } \$ 1001$ by fine on the for filings of this. Application in the United States of America.
Assignment	사용 경찰에 가장 돌아가는 사람들이 되는 사이트를 가장 되었다. 그들은 사용 기업을 받는다. 2015년 - 1915년
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
aI	imited Liability Company of <u>Delaware</u> .
Che	ereinafter designated as the "Assignee"),
I hereby acknowledge that I have assigne which is hereby conformed for recordation in the U	d the above-identified invention by previous assignment (attached hereto) to Assignee IS Patent Office and I confirm I have and do assign and transfer:
01	
For good and valuable consideration, the assigned and transferred to Assignee:	e 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 co- such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent th supplementary protection certificates, reexamination	the Application, including all priority rights for other countries arising therefrom and eventions 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 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, ons, 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
	aljatitina, si i 1985. Produk 1990. i si sve si si sa ne se se make kakena ka si si

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.

Eric M. Roberson

LEGAL NAME OF INVENTOR

Signature

10/8/82 10/8/18

Page 2 of 2

REEL: 047238 FRAME: 0744

	COMBI	NED DECLARATION AND ASSIGNMENT
Title of Inv	vention: <u>METHODS FOR C</u>	ONTROLLING TEMPERATURE IN ULTRASONIC DEVICE
This declarati	on and assignment is directed to	
		The attached or filed herewith application of (list of named inventors),
		The United States application or PCT international application number 16/144,335 filed on September 27, 2018.
Declaration		
As th	ne below named inventor, I here	by declare that:
The	above-identified application ("A	pplication") was made or authorized by me.
I beli	eve that I am the original inven	tor or an original inventor of a claimed invention or discovery in the Application.
information w	re reviewed and understood the thich is material to patentability on in the United States of Amer	contents of the Application, including the claims, and I acknowledge the duty to disclose as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of ica.
		ful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine of or both for filings of this Application in the United States of America.
Assignmen		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
		a Limited Liability Company of <u>Delaware</u> .
		(hereinafter designated as the "Assignee"),
☐ I here which is hereb	by acknowledge that I have as y conformed for recordation in	signed the above-identified invention by previous assignment (attached hereto) to Assigned the US Patent Office and I confirm I have and do assign and transfer:
or		현존에 가는 사용에 보고를 보고 있는 보고를 받는 것이 되는 것이 보고를 받는 것이 되었다. 그는 것이 되었다. 그렇게 되는 것은 작용하는 그들이 되고 있습니다. 그들은 사람이 되는 것을 모르는 것이 되었다. 그 것은 것이 되었다.
S For g assigned and to	good and valuable consideration ransferred to Assignee:	on, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to cla States, Europe such invention continuations t supplementary and enjoyment	aim priority to the Application, can Patent Office and of all off is or discoveries and all righ thereof, and to all Letters Pate protection certificates, reexam to the full end of the term or to	ander the Application, including all priority rights for other countries arising therefrom and all inventions or discoveries therein disclosed, and any and all Letters Patent of the United are countries, which may be granted for such inventions or discoveries, or any of them, all its in such Application including any and all provisionals, substitutions, divisions, and in that may be granted for said inventions and discoveries, and in and to all extensions, inations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own useerms for which such Letters Patent may be granted, as fully and entirely as the same would signment 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.

Kristen G. Denzinger
LEGAL NAME OF INVENTOR

Kustu J. Gy
Signature

10/4/18 Date

COMBINED DECLARATI	ION AND ASSIGNMENT
Title of Invention: METHODS FOR CONTROLLING TEMP	PERATURE IN ULTRASONIC DEVICE
This declaration and assignment is directed to:	
The attached or	filed herewith application of (list of named inventors),
ör	
	es application or PCT international application 335 filed on September 27, 2018.
Declaration	
As the below named inventor, I hereby declare that:	
The above-identified application ("Application") was made or	r authorized by me.
I believe that I am the original inventor or an original inventor	r of a claimed invention or discovery in the Application.
I have reviewed and understood the contents of the Applica information which is material to patentability as defined in Title 37, 1 this Application in the United States of America.	ation, including the claims, and I acknowledge the duty to disclose the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful false statement made imprisonment of not more than five (5) years, or both for filings of this	in this declaration is punishable under 18 U.S.C. § 1001 by fine or Application in the United States of America.
Assignment	
Ethicon #475 Street C Los Frailes Ind Guaynabo, Puert	, Suite 401 Justrial Park
a Limited Liability Cor	mpany of <u>Delaware</u> .
(hereinafter designated	as the "Assignee"),
I hereby acknowledge that I have assigned the above-identifi which is hereby conformed for recordation in the US Patent Office and	ted invention by previous assignment (attached hereto) to Assignee I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the sufficiency of wassigned and transferred to Assignee:	hich is acknowledged, I hereby assign and transfer and/or have
my entire right, title, and interest in, to, and under the Application, inche right to claim priority to the Application, all inventions or discover States, European Patent Office and of all other countries, which may such inventions or discoveries and all rights in such Application continuations thereof, and to all Letters Patent that may be granted supplementary protection certificates, reexaminations, renewals, and re and enjoyment to the full end of the term or terms for which such Lette have been held and enjoyed by me had this assignment and sale not be	ries therein disclosed, and any and all Letters Patent of the United be granted for such inventions or discoveries, or any of them, all including any and all provisionals, substitutions, divisions, and for said inventions and discoveries, and in and to all extensions, eissues thereof, to be held and enjoyed by Assignee for its own use ters Patent may be granted, as fully and entirely as the same would
Page 1	of 2

US Application No.: 16/144,335

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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.

Tatrick J. Scoggins		
LEGAL NAME OF INVENTOR		
Par I Sari	9/28/2018	
Signature	Date	

Dotriels I Congging

COMBINE	D DECLARATION AND ASSIGNMENT
Title of Invention: METHODS FOR CONT	FROLLING TEMPERATURE IN ULTRASONIC DEVICE
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors),
Or .	사용 등 사용 보다는 사용 보다는 것이 되었다. 그는 사용 사용을 하는 것이 들어가 되었다. 그는 것이 되었다는 것이 되었다.
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As the below named inventor, I hereby de	eclare that:
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I believe that I am the original inventor of	r an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood the con- information which is material to patentability as of this Application in the United States of America.	tents of the Application, including the claims, and I acknowledge the duty to disclose defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful fa imprisonment of not more than five (5) years, or be	Ise 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	에 있는 이 경험에 발생하는 것이 되었다. 경험에 가장 함께 되었다. 그는 그는 그들은 그들은 기계를 가장 하는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 그는 소문에 가장 하는 것이 되었다. 그를 보고 있는 것이 되었다. 그는 그를 보고 있다. 그는 그를 보고 있다.
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
<u>al</u>	limited Liability Company of <u>Delaware</u> .
(this	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:
O C	
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 co such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent th supplementary protection certificates, reexamination	the Application, including all priority rights for other countries arising therefrom and eventions 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 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, ons, 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

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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.

Craig N. Faller				
LEGAL NAME OF INVENTOR		Faring Control (1985)		
0 -) <i>(</i>		1 1 4	Miles et al.
		112		<u>v. 300 - 30</u>
Signature		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

COMBINE	DECLARATION AND ASSIGNMENT
Title of Invention: METHODS FOR CONT	ROLLING TEMPERATURE IN ULTRASONIC DEVICE
This declaration and assignment is directed to:	마이트 전 경험 등 기업
	The attached or filed herewith application of (list of named inventors),
Or	그들은 회사에 하는 것이 되는 것이 되었다. 그 이 그는 경기에 발표하는 모델링이 기계를 기급한 교육하는 것이 하는 것이 없는 것이 되었다. 그는 것이 말을 보고 있는 것이 되었다. 그는 것이 말을
	The United States application or PCT international application number 16/144,335 filed on September 27, 2018.
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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.
	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
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Assignment	
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	imited Liability Company of <u>Delaware</u> .
(he	reinafter designated as the "Assignee"),
	d the above-identified invention by previous assignment (attached hereto) to Assignee is Patent Office and I confirm I have and do assign and transfer:
	[16] [22] [22] [1] [22] [23] [23] [23] [23] [24] [25] [25] [25] [25] [25] [25] [25] [25
For good and valuable consideration, the assigned and transferred to Assignee:	e 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 of such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent th supplementary protection certificates, reexamination	the Application, including all priority rights for other countries arising therefrom and eventions 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 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, ons, 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 nent 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.

Madeleine C. Jayme

LEGAL NAME OF INVENTOR

Signature

<u>10/04/20</u>

Date

COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: <u>METHODS F</u>	OR CONT	ROLLING TEMPERATURE IN ULTRASONIC DEVICE
This declaration and assignment is direc	eted to:	[2] [1] [1] [1] [1] [1] [2] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
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		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.
Assignment		[발표 경기인 : [발표] - 선택 - 선택 - 선택 - 보고 - 호텔 - 설립 - 스트 - 프로그
		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	aL	imited Liability Company of <u>Delaware</u> .
	(he	reinafter designated as the "Assignee"),
		d the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
n r		마음이 보는 그 사람들에게 모르는 것이 되는 것이 되었다. 그런 그들은 사람들이 되었다. 사람들이 보는 그 사람들이 되었다. 그는 것이 되는 것이 얼마를 받는 것이 되었다.
☐ For good and valuable considuations in For good and valuable considuations for the Formation	leration, th	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority to the Applic States, European Patent Office and of such inventions or discoveries and al continuations thereof, and to all Letter supplementary protection certificates, re-	ation, all in all other co I rights in s Patent tha examination n or terms	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 auntries, 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, ns, 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 nent and sale not been made.
		Page 1 of 2

US Application No.: 16/144,335

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Jacob S. Gee LEGAL NAME OF INVENTOR

lacol.

19 6

Page 2 of 2

REEL: 047238 FRAME: 0754