# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5752838

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MARK D. OVERMYER	09/16/2019
BENJAMIN LAWRENCE BERTRAM	09/11/2019
VINCENZO BARBATO	09/21/2019
KRIS EREN KALLENBERGER	09/16/2019

### **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:	16553725

### **CORRESPONDENCE DATA**

**Fax Number:** (713)588-7064

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:** 713-588-7000

Email: VDocketHou@vorys.com

Correspondent Name: VORYS, SATER, SEYMOUR AND PEASE LLP

Address Line 1: 909 FANNIN ST.
Address Line 2: 27TH FLOOR

Address Line 4: HOUSTON, TEXAS 77010

Total Attachments, 9	
DATE SIGNED:	10/03/2019
SIGNATURE:	/lona N. Kaiser/
NAME OF SUBMITTER:	IONA N. KAISER
ATTORNEY DOCKET NUMBER:	END9058USNP1/049450-0045

Total Attachments: 8

PATENT REEL: 050617 FRAME: 0725



PATENT REEL: 050617 FRAME: 0726

# COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: ,	ARTICULATING IN	CLUDING ANTAGONISTIC CONTROLS FOR ARTICULATION AND
This declaration and assignment	nent is directed to:	
	□ er	The attached or filed herewith application
		The United States application or PCT international application number 16/553725 filed on August 28, 2019.
Declaration		
As the below name	d inventor, I hereby decl	are that:
The above-identifie	d application ("Applicat	ion") was made or authorized by me.
I believe that I am t	he original inventor or a	n original inventor of a claimed invention or discovery in the Application.
	al to patentability as def	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 in 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 Limited	Liability Company of the state of <u>Delaware</u>
	(here	sinafter designated as the "Assignee"),
	33	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 valuessigned and transferred to /		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to States, European Patent Of such inventions or discove continuations thereof, and t supplementary protection ce	the Application, all inv fice and of all other cou ries and all rights in to all Letters Patent that rtificates, reexamination	he Application, including all priority rights for other countries arising therefrom and entions or discoveries therein disclosed, and any and all Letters Patent of the United attries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and t may be granted for said inventions and discoveries, and in and to all extensions, is, 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

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PATENT

Client Ref: END9058USNP1 Application No: 16/553725 Atty, Ref: 049450-000045

have been held and enjoyed by me had this assignment and sale not been made.

BENJAMIN LAWRENCE BERTRAM

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.

Legal Name of Inventor	
4. / 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	9/11/19
Signature	Date

# COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: <u>ARTICULATING</u> <u>CALIBRATION</u> This declaration and assignment is directed to:	INCLUDING ANTAGONISTIC CONTROLS FOR ARTICULATION AND
C or	The attached or filed herewith application
	The United States application or PCT international application number 16/553725 filed on August 28, 2019.
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.
	entents 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 the Code of Pederal Regulations.
	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
Á Lim	ited Liability Company of the state of Delaware
(	hereinafter designated as the "Assignee"),
	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:
or	
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	therefore 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 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, tions, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use ns for which such Letters Patent may be granted, as fully and entirely as the same would

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Client Ref: END9058USNP1 Application No: 16/553725 Atty. Ref: 049450-000045

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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 projection 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.

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Legal Name of Inventor

Sionature

Sep-16-2019

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Client Ref: END9058USNP1 Application No: 16/553725 Atty, Ref: 049450-000045

# COMBINED DECLARATION AND ASSIGNMENT

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CALIBRATION This declaration and assignment is directed to:	NCLUDING ANTAGONISTIC CONTROLS FOR ARTICULATION AND
or or	The attached or filed herewith application
	The United States application or PCT international application number 16/553725 filed on August 28, 2019.
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.
	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
	se statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or oth for filings of this Application in the United States of America.
Assignment	
	Ethicon LLC #475 Street C, Suite 401
	Los Frailes Industrial Park
	Guaynabo, Puerto Rico 00969
A Limite	d Liability Company of the state of Delaware
(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:
or	
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 or 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 puntries, 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

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Client Ref: END9058USNP1 Application No: 16/553725 Atty. Ref: 049450-000045

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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.

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### KRIS EREN KALLENBERGER

Legal Name of Inventor

Monature

16 Sept 2019

PATENT

### COMBINED DECLARATION AND ASSIGNMENT

	COM	ши	DECLARATION AND ASSIGNMENT
	of Invention: <u>ARTICULAT</u> BRATION	ING IN	CLUDING ANTAGONISTIC CONTROLS FOR ARTICULATION AND
	eclaration and assignment is directed	to:	
		or	The attached or filed herewith application
			The United States application or PCT international application number <u>16/553725</u> filed on <u>August 28, 2019</u> .
Decla	ration		
	As the below named inventor, I he	reby decl	lare that:
	The above-identified application (	"Applica	tion") was made or authorized by me.
	I believe that I am the original invo	entor or a	n 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.			
impris			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.
Assig	nment		
			Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	A	Limited	Liability Company of the state of <u>Delaware</u>
		(here	einafter designated as the "Assignee"),
□ which			the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or			
and tra	For good and valuable considerationsferred to Assignee:	on, the su	efficiency of which is acknowledged, I hereby assign and transfer and/or have assigned
right to Europe invent thereo protec	co claim priority to the Application, all can Patent Office and of all other colons or discoveries and all rights in st f, and to all Letters Patent that may tion certificates, reexaminations, rene	l invention invention ountries, such App be grandewals, and	e Application, including all priority rights for other countries arising therefrom and the ons or discoveries therein disclosed, and any and all Letters Patent of the United States, which may be granted for such inventions or discoveries, or any of them, all such lication including any and all provisionals, substitutions, divisions, and continuations ted for said inventions and discoveries, and in and to all extensions, supplementary d 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

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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.

VINCENZO BARBATO

Legal Name of Inventor

5E/21/2019

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**PATENT**