## 505272403 01/10/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5319175

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	<b>Execution Date</b>				
GARY S. JAWOREK	01/04/2019				
ROBERT L. KOCH JR.	01/04/2019				
MICHAEL D. AULD	12/06/2018				
JOHN S. KIMSEY	01/04/2019				
DANIEL L. BABER	01/04/2019				
RICHARD L. LEIMBACH	01/04/2019				
DANIEL J. ULRICH	01/06/2019				

#### **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:	15274939

#### **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:	END7187USCNT2/120279CON2
NAME OF SUBMITTER:	CARA M. PINTO
SIGNATURE:	/Cara M. Pinto/

DATE SIGNED:	01/10/2019						
	This document serves as an Oath/Declaration (37 CFR 1.63).						
Total Attachments: 14							
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Attorney Docket No.: <u>END7187USCNT2/120279CON2</u>
US Application No.: <u>15/274,939</u>

	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention:	ARTICULATABLE SI SIGNAL COMMUNIC	URGICAL INSTRUMENTS WITH CONDUCTIVE PATHWAYS FOR CATION
This declaration and assi	gnment is directed to:	
		The attached or filed herewith application of (list of named inventors),
	<b>Ö</b>	
	×	The United States application or PCT international application number 15/274,939 filed on September 23, 2016.
Declaration		교통하는 그를 하게 하면 가득을 하는 것이 하는 것들은 기를 보는 것이 되었다고 있다면 되었다. 
As the below na	imed inventor, I hereby de	clare that:
The above-iden	tified application ("Applic	ation") was made or authorized by me.
I believe that I a	am the original inventor or	an original inventor of a claimed invention or discovery in the Application.
I have reviewed information which is ma this Application in the U	iterial to patentability 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 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	계획수보다 함께 함께 보다. 사용하는 사용하는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다.	
		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	aĹ	imited Liability Company of <u>Delaware</u> .
	<b>(h</b> e	ereinafter 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:
<b>o</b> r	History of Augusta. Augusta on Augusta	가능, 이 뿐입니까지 않는데, 그는 그는 사람들이 되는 이 것이 되는 것을 받는데 되었다. 
For good and assigned and transferred		e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priorit States, European Patent such inventions or disc continuations thereof, as supplementary protection and enjoyment to the ful	y to the Application, all ir Office and of all other co- coveries and all rights in and to all Letters Patent the certificates, reexamination and of the term or terms	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.
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PATENT

US Application No.: 15/274,939

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 Applications(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.

Gary S. Jaworek

LEGAL NAME OF EXVENTOR

4. fank

Signature

Date

JAN 4, 2019

Page 2 of 2

Attorney Docket No.: <u>END7187USCNT2/120279CON2</u>
US Application No.: <u>15/274,939</u>

	COMBINET	DECLARATION AND ASSIGNMENT
Title of Invention:		URGICAL INSTRUMENTS WITH CONDUCTIVE PATHWAYS FOR
	SIGNAL COMMUNIC	EATION
This declaration and assi,	gnment is directed to:	교육 중록하다는 경기 전 시간 전 경기 기업이 가장하다는 그 사이 시간 사람들이 되는 것으로 하는 것이다. 20. 라이 孝子編集
		The attached or filed herewith application of (list of named inventors),
	or	
	⊠	The United States application or PCT international application number 15/274,939 filed on September 23, 2016.
Declaration		- 프랑스 바로 시설 및 프로그램 프로젝트 (1982년) - 그리고 그렇게 하는 것이 되었다. 그리고 보다 그런데 보다 그 그리고 있다. - 그는 설문에 가는 사람들은 그는 이 하는 (1982년) - 100 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101
As the below na	med inventor, I hereby de	clare that:
The above-ident	ified application ("Applic	ation") was made or authorized by me.
I believe that I a	m the original inventor or	an original inventor of a claimed invention or discovery in the Application.
	terial to patentability as d	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
		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		이렇게 됐게 살았다. 이번에 밝힌 방법이 모든데, 날까지 이 모드라면 되다.
		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	al	imited Liability Company of <u>Delaware</u> .
	(be	ereinafter designated as the "Assignee"),
		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:
<b>or</b>		
☑ For good and assigned and transferred		ne sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority States, European Patent such inventions or disc continuations thereof, ar supplementary protection and enjoyment to the ful	y to the Application, all in Office and of all other converies and all rights in the total Letters Patent the certificates, reexaminated and of the term or terms	the Application, including all priority rights for other countries arising therefrom and aventions 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 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.
	공료 공항 프라이스 이 보는 것이다. 이 100 - 공료 공료 공료 공료 공료 공료 공료 공료	#####################################
		Page 1 of 2

US Application No.: 15/274,939

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.

Robert L. Koch, Jr.

LEGAL NAME OF INVENTOR

Signature

Date

	US Application No.: <u>15/274,939</u>							
	COMBINED DECLARATION AND ASSIGNMENT							
Title of Invention:	ARTICULATABLE SURGICAL INSTRUMENTS WITH CONDUCTIVE PATHWAYS FOR SIGNAL COMMUNICATION							
This declaration and assi	gnment is directed to:							
	The attached or filed herewith application of (list of named inventors),							
	The United States application or PCT international application number 15/274,939 filed on September 23, 2016.							
Declaration	마스트 보통하는 보통하는 것 이 경험을 보통하는 것을 보고 있는 것이 없는 것이 되었다. 그는 것이 되었다는 것은 것이 되었다는 것을 보고 있는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 이 사용 사용을 보통하는 것이 되었다. 그 것이 되었다는 것이 없는 것이 없는 이 사용 사용을 보통하는 것이 있다. 그 것이 있다면 없는 것이 없는							
As the below na	med inventor, I hereby declare that:							
The above-iden	tified application ("Application") was made or authorized by me.							
I believe that I a	m the original inventor or an original inventor of a claimed invention or discovery in the Application.							
	I and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose terial to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of inited States of America.							
	viedge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or e than five (5) years, 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							
	a Limited Liability Company of <u>Delaware</u> .							
	(hereinafter designated as the "Assignee"),							
	vledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee ed for recordation in the US Patent Office and I confirm I have and do assign and transfer:							
<b>01</b>	하면 보고 있는 것이 되었다. 그는 것이 없는 것이 없는 							
For good and vassigned and transferred	valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have to Assignee:							
the right to claim priority States, European Patent such inventions or disco continuations thereof, an supplementary protection and enjoyment to the full	interest in, to, and under the Application, including all priority rights for other countries arising therefrom and to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all overies and all rights in such Application including any and all provisionals, substitutions, divisions, and do to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, in certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use lend of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would sed by me had this assignment and sale not been made.							
	Page 1 of 2							

US Application No.: 15/274,939

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.

Michael D. Auld	_
LEGAL NAME OF INVENTOR	
M.D. auld, PE	12/6/2018
Signature	Date

Attorney Docket No.: <u>END7187USCNT2/120279CON2</u> US Application No.: <u>15/274,939</u>

	COMBINED DECLARATION AND ASSIGNMENT
Title of Invention;	ARTICULATABLE SURGICAL INSTRUMENTS WITH CONDUCTIVE PATHWAYS FOR SIGNAL COMMUNICATION
This declaration and assig	gnment is directed to:
	The attached or filed herewith application of (list of named inventors)
	하는 물로 보는 사람들이 보고 있는 것이 되었다. 그런 경우에 가장 하는 것이 되었다. 그런
	The United States application or PCT international application number 15/274,939 filed on September 23, 2016.
Declaration	
As the below na	med inventor, I hereby declare that:
The above-ident	tified application ("Application") was made or authorized by me.
I believe that I a	um the original inventor or an original inventor of a claimed invention or discovery in the Application.
I have reviewed information which is mathris Application in the U	I and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose sterial to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of United States of America.
I hereby acknow imprisonment of not mor	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or than five (5) years, 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
1 12 - LERNER ER 1 12 - LERE ER	a Limited Liability Company of <u>Delaware</u> .
	(hereinafter designated as the "Assignee"),
	wledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee led for recordation in the US Patent Office and I confirm I have and do assign and transfer:
or	에 하고 하다는 이 빠지는 아이들이 가는 이 목록에 되고 있다. 그는 그를 모르는 그를 받았다. 그는 그를 모르는 그는 것이다. 그는 사람들은 그는 사람들은 한 물건이 되는 것을 하는 사람들이 가는 것이다. 그를 가게 되어 되었다. 그는 것이
For good and assigned and transferred	valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have to Assignee:
the right to claim priorit States, European Patent such inventions or disc continuations thereof, as supplementary protection and enjoyment to the ful	d interest in, to, and under the Application, including all priority rights for other countries arising therefrom and y to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United to Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all coveries and all rights in such Application including any and all provisionals, substitutions, divisions, and not to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, in certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use ll end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would yed by me had this assignment and sale not been made.
	Page 1 of 2

PATENT

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 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.

John S. Kimsey LEGAL NAME OF INVENTOR

Signature

1/4/2019

Attorn	ev	Do	ocket	No.:	E	ND	71	87T	JS	CN	IT2	/1:	20	27	9C	O	N	2
					-					*	210,110-							_

JS Application No.: <u>15/274,939</u>

	COMBINED	DECLARATION AND ASSIGNMENT		
Title of Invention:	ARTICULATABLE SURGICAL INSTRUMENTS WITH CONDUCTIVE PATHWAYS FOR SIGNAL COMMUNICATION			
This declaration and assignment is directed to:				
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	or			
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Declaration				
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The above-iden	tified application ("Applica	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 information which is mathis Application in the U	iterial to patentability as de	ents of the Application, including the claims, and I acknowledge the duty to disclose efined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of		
		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		
	a L	imited Liability Company of <u>Delaware</u> .		
	(he	reinafter designated as the "Assignee"),		
☐ I hereby acknowhich is hereby conform	wledge that I have assigned and for recordation 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:		
or				
For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:				
the right to claim priorit States, European Patent such inventions or disc continuations thereof, a supplementary protection and enjoyment to the full	y to the Application, all in t Office and of all other co- coveries and all rights in nd to all Letters Patent th n certificates, reexamination of the term or terms	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, cans, 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.		
		· 보통 보통 보다 :		
		Page 1 of 2		

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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.

Daniel L. Baber	
LEGAL NAME OF INVENTOR	
( Wal DM	1/4/2019
Signature	Date

	COMBINED DECLARATION AND ASSIGNMENT		
Title of Invention:	ARTICULATABLE SURGICAL INSTRUMENTS WITH CONDUCTIVE PATHWAYS FOR SIGNAL COMMUNICATION		
This declaration and assig	gament is directed to:		
	The attached or filed herewith application of (list of named inventors),		
	The United States application or PCT international application number 15/274,939 filed on September 23, 2016.		
Declaration			
As the below na	med inventor, I hereby declare that:		
The above-ident	tified application ("Application") was made or authorized by me.		
I believe that I a	om the original inventor or an original inventor of a claimed invention or discovery in the Application.		
I have reviewed information which is ma this Application in the U	I and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose terial to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of Inited States of America.		
	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or than five (5) years, or both for filings of this Application in the United States of America.		
Assignment	본 1 1 1일 1일 1일 투 1 集集 기반 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969		
	a Limited Liability Company of <u>Delaware</u> .		
(영경 127) - (12) 	(hereinafter designated as the "Assignee"),		
	wledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee led for recordation in the US Patent Office and I confirm I have and do assign and transfer:		
or			
For good and assigned and transferred	valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have to Assignee:		
the right to claim priorit States, European Patent such inventions or disc continuations thereof, as supplementary protection and enjoyment to the ful	d interest in, to, and under the Application, including all priority rights for other countries arising therefrom and y to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United to Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all coveries and all rights in such Application including any and all provisionals, substitutions, divisions, and not to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, in certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use il end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would yed by me had this assignment 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.

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.

Richard L. Leimbach
LEGAL NAME OF INVENTOR

1141

Date

Page 2 of 2

Attorney Docket No.:  $\frac{END7187USCNT2/120279CON2}{US\ Application\ No.:\ \underline{15/274,939}}$ 

	COMBINED	DECLARATION AND ASSIGNMENT		
Title of Invention:	e of Invention: ARTICULATABLE SURGICAL INSTRUMENTS WITH CONDUCTIVE PATHWAYS FOR SIGNAL COMMUNICATION			
This declaration and assig	gnment is directed to:			
		The attached or filed herewith application of (list of named inventors),		
	or			
	$\boxtimes$	The United States application or PCT international application number <u>15/274,939</u> filed on <u>September 23, 2016</u> .		
Declaration				
As the below na	med inventor, I hereby decl	are that:		
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.				
		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.		
Assignment				
		Ethicon LLC #475 Street C, Suite 401		
		Los Frailes Industrial Park Guaynabo, Puerto Rico 00969		
	a I ir	nited Liability Company of Delaware.		
·		einafter designated as the "Assignee"),		
		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 assigned and transferred		sufficiency of which is acknowledged, I hereby assign and transfer and/or have		
the right to claim priorit States, European Patent such inventions or disc continuations thereof, as supplementary protection and enjoyment to the ful	y to the Application, all inv Office and of all other con- coveries and all rights in and to all Letters Patent that an certificates, reexamination I end of the term or terms in	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 antries, 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, 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 sent and sale not been made.		

Page 1 of 2

US Application No.: 15/274,939

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.

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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.

Daniel J. Ulrich

LEGAL NAME OF INVENTOR

Date/