11/02/2017 504624027

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4670745

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JASON L. HARRIS	06/29/2017
FREDERICK E. SHELTON IV	07/11/2017
DAVID C. YATES	07/14/2017
DOUGLAS E. WITHERS	07/11/2017
SHANE R. ADAMS	07/13/2017

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:	15628077

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) 355-6423

Email: piuspatents@klgates.com ROBERTO CAPRIOTTI **Correspondent Name:** Address Line 1: 210 SIXTH AVENUE Address Line 2: **K&L GATES CENTER**

Address Line 4: PITTSBURGH, PENNSYLVANIA 15222-2613

ATTORNEY DOCKET NUMBER:	END8270USNP/170191
NAME OF SUBMITTER:	ROBERTO CAPRIOTTI
SIGNATURE:	/Roberto Capriotti/
DATE SIGNED:	11/02/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

REEL: 044018 FRAME: 0298 504624027

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Total Attachments: 10 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#page9.tif

PATENT REEL: 044018 FRAME: 0299

		US Application No.: <u>15/628,077</u>
	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention:		IODS FOR CONTROLLING MOTOR SPEED ACCORDING TO USER
	INPUT FOR A SURGIO	CALINSTRUMENT
This declaration and assig	nment is directed to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>15/628,077</u> filed on <u>June 20, 2017</u> .
Declaration		
As the below nar	ned inventor, I hereby decl	are that:
The above-identi	fied application ("Applicat	ion") was made or authorized by me.
I believe that I ar	n the original inventor or a	n original inventor of a claimed invention or discovery in the Application.
I have reviewed information which is mat this Application in the Un	erial 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 a 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 Lin	nited Liability Company of <u>Delaware</u> .
	(here	einafter designated as the "Assignee"),
I hereby acknow which is hereby conforme	ledge that I have assigned d for recordation in the US	the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or		·
For good and vanssigned and transferred to		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority States, European Patent (such inventions or disco continuations thereof, and supplementary protection and enjoyment to the full	to the Application, all invo Office and of all other cou- veries and all rights in s to all Letters Patent that certificates, reexaminations and of the term or terms for	the 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 ntries, which may be granted for such inventions or discoveries, or any of them, all uch Application including any and all provisionals, substitutions, divisions, and may be granted for said inventions and discoveries, and in and to all extensions, s, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would ent and sale not been made.

Page 1 of 2

US Application No.: 15/628,077

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.

Jason L. Harris LEGAL NAME OF INVENTOR	
July Mww. Signature	<u> </u>

		US Application No.: 15/628,077
	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention:	SYSTEMS AND METHODS FOR CONTROLLING MOTOR SPEED ACCORDING TO USER INPUT FOR A SURGICAL INSTRUMENT	
This declaration and assig	nment is directed to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>15/628,077</u> filed on <u>June 20, 2017</u> .
Declaration		
As the below nar	ned inventor, I hereby dec	lare that:
The above-identi	fied application ("Applica	tion") was made or authorized by me.
I believe that I ar	n the original inventor or a	an original inventor of a claimed invention or discovery in the Application.
I have reviewed information which is mat this Application in the Un	erial to patentability as de	nts of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		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
÷		mited Liability Company of <u>Delaware</u> .
	(her	einafter designated as the "Assignee"),
		the above-identified invention by previous assignment (attached hereto) to Assignee 3 Patent Office and I confirm I have and do assign and transfer:
or		
For good and vanssigned and transferred to		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority States, European Patent (such inventions or disco- continuations thereof, and supplementary protection of and enjoyment to the full of	to the Application, all inv Office and of all other converies and all rights in a to all Letters Patent that certificates, reexamination and of the term or terms f	the Application, including all priority rights for other countries arising therefrom and rentions 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 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 ent and sale not been made.

Page 1 of 2

US Application No.: 15/628,077

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 Assignce 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.

Frederick E. Shelton, IV

LEGAL NAME OF INVENTOR

Signature

Date

Attorney Docket No.: END8270USNP/170191 US Application No.: 15/628.077

		05 Application No.: 15/628,077
	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention:	SYSTEMS AND METHODS FOR CONTROLLING MOTOR SPEED ACCORDING TO USER INPUT FOR A SURGICAL INSTRUMENT	
This declaration and assi	gnment is directed to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number 15/628,077 filed on June 20, 2017.
Declaration		
As the below na	med inventor, I hereby dec	lare that:
The above-ident	ified application ("Applica	tion") was made or authorized by me.
I believe that I a	m the original inventor or a	in original inventor of a claimed invention or discovery in the Application.
I have reviewed information which is ma this Application in the U	terial to patentability as de	nts of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		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		man
		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Lis	nited Liability Company of Delaware.
	(here	einafter designated as the "Assignee"),
I hereby acknow which is hereby conforme	pledge that I have assigned of for recordation in the US	the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or		
For good and vassigned and transferred t	rahuable consideration, the o Assignee:	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority States, European Patent such inventions or disco- continuations thereof, and supplementary protection and enjoyment to the full	to the Application, all inv Office and of all other cou overies and all rights in s d to all Letters Patent that certificates, reexamination end of the term or terms for	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 entries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and may be granted for said inventions and discoveries, and in and to all extensions, s, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would ent and sale not been made.
		Page 1 of 2

PATENT REEL: 044018 FRAME: 0304

US Application No.: 15/628,077

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.

David C. Yates

LEGAL NAME OF INVENTOR

Signature

7/14/17 Date

Attorney Docket No.: END8270USNP/170191
US Application No.: 15/628.077

		O5 Application No.: 15/628,077
	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention:	SYSTEMS AND METHODS FOR CONTROLLING MOTOR SPEED ACCORDING TO USER INPUT FOR A SURGICAL INSTRUMENT	
This declaration and assi	gnment is directed to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number 15/628,077 filed on June 20, 2017.
Declaration		
As the below na	med inventor, I hereby decl	lare that:
The above-ident	ified application ("Applicat	tion") was made or authorized by me.
I believe that I a	m the original inventor or a	m original inventor of a claimed invention or discovery in the Application.
	terial to patentability as de	nts of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		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 Lir	nited Liability Company of Delaware.
	(here	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 vassigned and transferred t		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority States, European Patent such inventions or disco- continuations thereof, and supplementary protection and enjoyment to the full	to the Application, all inv Office and of all other cou overies and all rights in s d to all Letters Patent that certificates, reexamination end of the term or terms for	the 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 entries, 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 ent and sale not been made.

Page 1 of 2

PATENT REEL: 044018 FRAME: 0306

Attorney Docket No.: <u>END8270USNP/170191</u>
US Application No.; 15/628,077

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.

7/11/17

Douglas E. Withers
LEGAL NAME OF INVENTOR

ujurie

Page 2 of 2

	US Application No.: 15/628,077
	COMBINED DECLARATION AND ASSIGNMENT
	Title of Invention: SYSTEMS AND METHODS FOR CONTROLLING MOTOR SPEED ACCORDING TO USER INPUT FOR A SURGICAL INSTRUMENT
	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 15/628,077 filed on June 20, 2017.
	Declaration
	As the below named inventor, I hereby declare 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.
The state of the s	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 fillings of this Application in the United States of America.
	I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both for filings of this Application in the United States of America.
	Assignment
	Ethicon LLC
	#475 Street C, Suite 401 Los Frailes Industrial Park
	Guaynabo, Puerto Rico 00969
	a Limited Liability Company of Delaware.
	(hereinafter designated as the "Assignee"),
	I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US 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:
	my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

Page 1 of 2

US Application No.: 15/628,077

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.

Shane R. Adams

LEGAL NAME OF INVENTOR

Signature

7-13-2017

Date

Page 2 of 2