PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4102027

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID C. YATES	09/08/2016
FREDERICK E. SHELTON IV	09/07/2016
MARK D. OVERMYER	09/08/2016
JASON L. HARRIS	09/12/2016
JEFFREY S. SWAYZE	09/06/2016

RECEIVING PARTY DATA

Name: ETHICON ENDO-SURGERY, LLC	
Street Address: 475 C STREET, SUITE 202	
City: GUAYNABO	
State/Country: PUERTO RICO	
Postal Code:	0969

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15237653

CORRESPONDENCE DATA

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: 617-348-3018
Email: csperry@mintz.com
Correspondent Name: CHRISTINA SPERRY

Address Line 1: ONE FINANCIAL CENETER

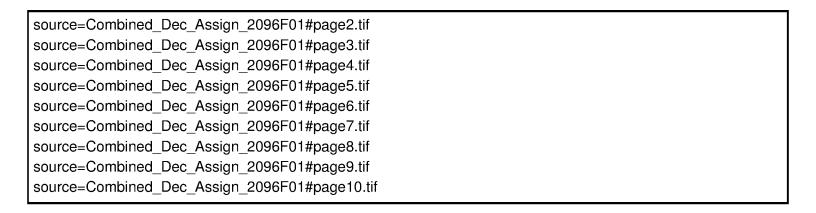
Address Line 4: BOSTON, MASSACHUSETTS 02111

NAME OF SUBMITTER:	CHRISTINA SPERRY	
SIGNATURE:	/Christina Sperry/	
DATE SIGNED:	10/18/2016	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 10

source=Combined_Dec_Assign_2096F01#page1.tif

PATENT REEL: 040046 FRAME: 0808



PATENT REEL: 040046 FRAME: 0809

COMBINED DECLARATION AND ASSIGNMENT

Title of Invention:	METHODS, SYSTEMS, SYSTEM	, AND DEVICES FOR CONTROLLING A MOTOR OF A ROBOTIC SURGICAL	
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 15/237,653 filed on August 16, 2016.	
Declaration			
As the below na	amed inventor, I hereby dec	lare that:	
The above-ident	tified application ("Applica	tion") was made or authorized by me.	
I believe that I a	ım the original inventor or a	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 nformation which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of his Application in the United States of America.			
I hereby acknov imprisonment of not mor	wledge that any willful false than five (5) years, or bot	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 Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico	
	a Liı	nited Liability Company of <u>Delaware</u> .	
	(her	einafter designated as the "Assignee"),	
I hereby acknow	vledge that I have assigned ed for recordation in the US	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 vassigned and transferred		sufficiency of which is acknowledged, I hereby assign and transfer and/or have	
the right to claim priority States, European Patent such inventions or discontinuations thereof, an supplementary protection and enjoyment to the full	y to the Application, all inv Office and of all other cou overies and all rights in and to all Letters Patent than a certificates, reexamination I end of the term or terms f	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 ent and sale not been made.	
		D162	

Page 1 of 2

US Application No.: 15/237,653

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

David C. Yates

Signature

9/8/16

57354846v.1

COMBINED DECLARATION AND ASSIGNMENT

Title of Invention:	METHODS, SYSTEMS SYSTEM	, AND DEVICES FOR CONTROLLING A MOTOR OF A ROBOTIC SURGICAL	
This declaration and assig	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 15/237,653 filed on August 16, 2016.	
Declaration			
As the below nar	ned inventor, I hereby dec	lare that:	
The above-identi	fied application ("Applica	ntion") was made or authorized by me.	
I believe that I ar	n 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.			
I hereby acknow imprisonment of not more	ledge that any willful fals than five (5) years, or bot	the statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or the third third states of this Application in the United States of America.	
Assignment			
		Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico	
a Limited Liability Company of <u>Delaware</u> .			
	(her	einafter 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	

PATENT REEL: 040046 FRAME: 0812

US Application No.: 15/237,653

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

Frederick E. Shelton, IV.

Signature

Page 16

Date

57354876v.1

COMBINED DECLARATION AND ASSIGNMENT

Title of Invention:	METHODS, SYSTEMS, SYSTEM	, AND DEVICES FOR CONTROLLING A MOTOR OF A ROBOTIC SURGICAL
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 15/237,653 filed on August 16, 2016.
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 U1	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
I hereby acknow imprisonment of not more	ledge that any willful fals than five (5) years, or bot	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		Pd. See Parks Company LLC
		Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico
	a Liı	mited Liability Company of Delaware.
	(her	einafter designated as the "Assignee"),
		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 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 inv Office and of all other converies and all rights in I 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 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 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 tent and sale not been made.

Page 1 of 2

US Application No.: 15/237,653

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

Mark D. Overmyer	- W		
Mach C	helmur	9/8/2016	
Signature	The state of the s	Date	

57355223v.1

Page 2 of 2

	US Application No.: 15/237,653		
	COMBINED DECLARATION AND ASSIGNMENT		
Т	itle of Invention: METHODS, SYSTEMS, AND DEVICES FOR CONTROLLING A MOTOR OF A ROBOTIC SURGICAL SYSTEM		
T	nis 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 <u>15/237,653</u> filed on <u>August 16, 2016</u> .		
D	eclaration		
	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.		
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.			
im	I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or prisonment of not more than five (5) years, or both for filings of this Application in the United States of America.		
As	Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico		
	a Limited Liability Company of <u>Delaware</u> .		
	(hereinafter designated as the "Assignee"),		
wh	I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee ich is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:		
or			
ass	For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have igned and transferred to Assignee:		
the Sta suc corr sup and	entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United tes, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all h inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and tinuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, plementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use 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 e been held and enjoyed by me had this assignment and sale not been made.		
	Page 1 of 2		

US Application No.: 15/237,653

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

an I Steen

Jason L. Harris

Signature

Date

57355318v.1

COMBINED DECLARATION AND ASSIGNMENT			
Title of Invention:	METHODS, SYSTEMS, SYSTEM	, AND DEVICES FOR CONTROLLING A MOTOR OF A ROBOTIC SURGICAL	
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 15/237,653 filed on August 16, 2016.	
Declaration			
As the below nar	med inventor, I hereby decl	lare that:	
The above-identi	ified application ("Applicat	tion") was made or authorized by me.	
I believe that I as	m the original inventor or a	an original inventor of a claimed invention or discovery in the Application.	
	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	
I hereby acknow imprisonment of not more	ledge that any willful false than five (5) years, or both	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	a Lir	Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico mited Liability Company of <u>Delaware</u> .	
		einafter designated as the "Assignee"),	
I hereby acknow which is hereby conforme	ledge that I have assigned	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 discontinuations 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 d to all Letters Patent that certificates, reexaminations end of the term or terms for	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 to 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	

US Application No.: 15/237,653

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

Jeffrey S. Swayze

Signature 9-6-2016

Date

57355337v.1

Page 2 of 2