PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4111968

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
JASON L. HARRIS	09/12/2016

RECEIVING PARTY DATA

Name:	ETHICON ENDO-SURGERY, LLC	
Street Address:	475 STREET C	
Internal Address:	LOS FRAILES INDUSTRIAL PARK	
City:	GUAYNABO	
State/Country:	PUERTO RICO	
Postal Code:	00969	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15237909

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.

Email: efswider@mintz.com, ipdocketingbos@mintz.com

Correspondent Name: MINTZ LEVIN

Address Line 1: ONE FINANCIAL CENTER

Address Line 4: BOSTON, MASSACHUSETTS 02111

ATTORNEY DOCKET NUMBER:	47364-215F02US
NAME OF SUBMITTER:	LISA ADAMS
SIGNATURE:	/LISA ADAMS/
DATE SIGNED:	10/25/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

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PATENT REEL: 040117 FRAME: 0619

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PATENT REEL: 040117 FRAME: 0620

Attorney Docket No.: 47364-215F02US (END7950USNP1)

	US Application No.: 15/237,909
COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention: ROBOTIC VISUALIZATION	ON AND COLLISION AVOIDANCE
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 15/237,909 filed on August 16, 2016.
Declaration	
As the below named inventor, I hereby decl	are that:
The above-identified application ("Applicat	tion") was made or authorized by me.
I believe that I am the original inventor 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 fillings 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 a for filings of this Application in the United States of America.
Assignment	
	Ethicon Endo-Surgery, LLC 475 Street C
	Los Frailes Industrial Park
	Guaynabo, 00969, Puerto Rico
a Lin	nited Liability Company of <u>Delaware</u> .
(here	inafter 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 valuable consideration, the assigned and transferred to Assignee:	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all investates, European Patent Office and of all other cousuch inventions or discoveries and all rights in scontinuations thereof, and to all Letters Patent that supplementary protection certificates, reexaminations	the Application, including all priority rights for other countries arising therefrom and centions 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 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

Attorney Docket No.: 47364-215F02US (END7950USNP1)

US Application No.: 15/237,909

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.

DAVID C. YATES

Signature

57316160v.1

9/8/16

Date

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Attorney Docket No.: 47364-215F02US (END7950USNP1)
US Application No.: 15/237,909

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C	OMBINED	DECLARATION AND ASSIGNMENT
Title of Invention: ROBOTIC V	ISUALIZATI	ION AND COLLISION AVOIDANCE
This declaration and assignment is dir	ected to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number 15/237,909 filed on August 16, 2016.
Declaration		
As the below named inventor	, I hereby dec	clare that:
The above-identified applicat	ion ("Applica	ation") was made or authorized by me.
I believe that I am the origina	l inventor or	an original inventor of a claimed invention or discovery in the Application.
I have reviewed and underst information which is material to pater this Application in the United States of	atability 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
I hereby acknowledge that ar imprisonment of not more than five (5	ıy willful fals) years, or bot	se statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or the for filings of this Application in the United States of America.
Assignment		Ethicon Endo-Surgery, LLC 475 Street C Los Frailes Industrial Park Guaynabo, 00969, Puerto Rico
	a Li	mited Liability Company of Delaware.
	(her	reinafter designated as the "Assignee"),
I hereby acknowledge that I li which is hereby conformed for records	nave assigned ition in the US	I the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
or		
For good and valuable cons assigned and transferred to Assignee:	ideration, the	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Appli States, European Patent Office and o such inventions or discoveries and a continuations thereof, and to all Lette supplementary protection certificates,	cation, all inv f all other con all rights in ers Patent tha reexamination erm 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 at may be granted for said inventions and discoveries, and in and to all extensions, and, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would nent and sale not been made.
		Page 1 of 7

Page 1 of 2

Attorney Docket No.: 47364-215F02US (END7950USNP1)

US Application No.: 15/237,909

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.

FREDERICK E. SHELTON, IV.

Signature

57316243v.1

Date

9/7/16

Page 2 of 2

Attorney Docket No.: 47364-215F02US (END7950USNP1)
US Application No.: 15/237,909

		Ob Apphoadal No. 13/231,505
COM	BINED	DECLARATION AND ASSIGNMENT
Title of Invention: ROBOTIC VISUA	LIZATI	ON AND COLLISION AVOIDANCE
This declaration and assignment is directed	l to:	
		The attached or filed herewith application of (list of named inventors),
	or	
	\boxtimes	The United States application or PCT international application number 15/237,909 filed on August 16, 2016.
Declaration		
As the below named inventor, I ho	ereby dec	lare that:
The above-identified application ("Applica	tion") was made or authorized by me.
I believe that I am the original inv	entor or a	an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood information which is material to patentabithis Application in the United States of Art	lity 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 acknowledge that any w imprisonment of not more than five (5) yea	illful fals ers, or bot	e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or the for filings of this Application in the United States of America.
Assignment		Ethicon Endo-Surgery, LLC 475 Street C Los Frailes Industrial Park Guaynabo, 00969, Puerto Rico
	a Li	mited Liability Company of <u>Delaware</u> .
	(her	reinafter designated as the "Assignee"),
I hereby acknowledge that I have which is hereby conformed for recordation	assigned 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 valuable consider assigned and transferred to Assignee:	ation, the	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application States, European Patent Office and of all such inventions or discoveries and all recontinuations thereof, and to all Letters Franchementary protection certificates, reex	on, all involved on the consister of the constant the amination or terms to the constant of th	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United untries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and at may be granted for said inventions and discoveries, and in and to all extensions, ans, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would nent and sale not been made.
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Attorney Docket No.: 47364-215F02US (END7950USNP1)
US Application No.: 15/237,909

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Page 2 of 2