505078700 09/05/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5125457

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FREDERICK E. SHELTON IV	06/25/2018
TAYLOR W. ARONHALT	06/25/2018
KREENA R. MODI	06/21/2018
CHRISTOPHER J. SCHALL	06/21/2018
JOSEPH E. YOUNG	06/27/2018
BARRY C. WORRELL	06/25/2018
JEROME R. MORGAN	06/25/2018
WILLIAM B. WEISENBURGH II	06/25/2018
CHRISTOPHER J. HESS	07/10/2018
EMILY A. SCHELLIN	06/25/2018

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:	15273358

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

505078700 REEL: 046791 FRAME: 0807

PAIENI

ATTORNEY DOCKET NUMBER:	END6926USCNT6/110009CON2
NAME OF SUBMITTER:	CARA M. PINTO
SIGNATURE:	/Cara M. Pinto/
DATE SIGNED:	09/05/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 20

source=110009CON2 - Signed Combined Declaration and Assignment Documents#page1.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page2.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page3.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page4.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page5.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page6.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page7.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page8.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page9.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page10.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page11.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page12.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page13.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page14.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page15.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page16.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page17.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page18.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page19.tif source=110009CON2 - Signed Combined Declaration and Assignment Documents#page20.tif

> PATENT REEL: 046791 FRAME: 0808

Attorney Docket No.: END6926USCNT6/110009CON2
US Application No.: 15/273,358

	US Application No.: <u>13/2/3,338</u>
COMBINED DE	CLARATION AND ASSIGNMENT
Title of Invention: <u>SURGICAL BOWEL RETRA</u>	CTOR DEVICES
This declaration and assignment is directed to:	
☐ TH	ne attached or filed herewith application of (list of named inventors),
or	
	ne United States application or PCT international application mber 15/273,358 filed on September 22, 2016.
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 or	riginal inventor of a claimed invention or discovery in the Application.
I have reviewed and understood the contents information which is material to patentability as define this Application in the United States of America.	of the Application, including the claims, and I acknowledge the duty to disclose d in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful false sta imprisonment of not more than five (5) years, or both fo	atement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or r filings of this Application in the United States of America.
G	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park uaynabo, Puerto Rico 00969 d Liability Company of <u>Delaware</u> .
(hereina	fter designated as the "Assignee"),
☐ I hereby acknowledge that I have assigned the which is hereby conformed for recordation in the US Pa	above-identified invention by previous assignment (attached hereto) to Assignee tent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the su assigned and transferred to Assignee;	fficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all invent States, European Patent Office and of all other countr such inventions or discoveries and all rights in such continuations thereof, and to all Letters Patent that m supplementary protection certificates, reexaminations, r	Application, including all priority rights for other countries arising therefrom and ions or discoveries therein disclosed, and any and all Letters Patent of the United ies, which may be granted for such inventions or discoveries, or any of them, all a Application including any and all provisionals, substitutions, divisions, and ay be granted for said inventions and discoveries, and in and to all extensions, enewals, and reissues thereof, to be held and enjoyed by Assignee for its own use which such Letters Patent may be granted, as fully and entirely as the same would and sale not been made.

US Application No.: 15/273,358

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

LEGAL NAME OF INVENTOR

Signature

Date

6/25/18

Page 2 of 2

			US Application No.: <u>15/273,358</u>
	COME	BINED	DECLARATION AND ASSIGNMENT
Title of	Invention: SURGICAL BOW	EL RET	TRACTOR DEVICES
This decla	ration 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>15/273,358</u> filed on <u>September 22, 2016</u> .
Declarat	tion		
A	s the below named inventor, I he	reby decl	are that:
T	he above-identified application ("	'Applicat	tion") was made or authorized by me.
I	believe that I am the original inve	entor or a	n original inventor of a claimed invention or discovery in the Application.
informatio	have reviewed and understood the which is material to patentabilication in the United States of Am	ity 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 imprisonm	hereby acknowledge that any will ent of not more than five (5) year	llful false s, 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.
Assignm	lent		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"),
			the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or			
	or good and valuable considerated transferred to Assignee:	tion, the	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to States, Eu such inver continuation supplement and enjoyn	o claim priority to the Application propean Patent Office and of all contions or discoveries and all rigons thereof, and to all Letters Patenty protection certificates, reexa	n, all invother coughts in satent that mination 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 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.

US Application No.: 15/273,358

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.

Taylor W. Aronhalt	
LEGAL NAME OF INVENTOR	

Signature

6-25-2018

Date

		US Application No.: <u>15/273,358</u>
	COMBINED	DECLARATION AND ASSIGNMENT
Fitle of Invention: <u>SURGI</u>	CAL BOWEL RET	TRACTOR DEVICES
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 <u>15/273,358</u> filed on <u>September 22, 2016</u> .
Declaration		
As the below named in	ventor, I hereby decl	lare that:
The above-identified ap	pplication ("Applicat	tion") was made or authorized by me.
I believe that I am the	original inventor or a	an original inventor of a claimed invention or discovery in the Application.
	o 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 the 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 Li	mited Liability Company of <u>Delaware</u> .
	(her	reinafter designated as the "Assignee"),
		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 assigned and transferred to Assigned.		e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the States, European Patent Office such inventions or discoveries continuations thereof, and to a supplementary protection certife	e Application, all in e and of all other co s and all rights in all Letters Patent that acates, reexamination of the term or terms	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, ns, 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.

Page 1 of 2

PATENT

REEL: 046791 FRAME: 0813

US Application No.: 15/273,358

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.

Kreena R. Modi LEGAL NAME OF INVENTOR	_
Signature	June 21, 2018

Page 2 of 2

		US Application No.: <u>15/273,358</u>
CO	MBINED	DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL E	OWEL RE	TRACTOR DEVICES
This declaration and assignment is dire	cted to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>15/273,358</u> filed on <u>September 22, 2016</u> .
Declaration		
As the below named inventor,	I hereby dec	plare that:
The above-identified applicati	on ("Applica	ation") was made or authorized by me.
I believe that I am the original	l inventor or	an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understo information which is material to paten this Application in the United States of	tability 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 an imprisonment of not more than five (5)	y 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 LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Li	mited Liability Company of Delaware.
	(her	reinafter designated as the "Assignee"),
I hereby acknowledge that I hwhich is hereby conformed for recordate	ave assigned tion in the U	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 consinusing For good For Formula	deration, the	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Applic States, European Patent Office and of such inventions or discoveries and a continuations thereof, and to all Lette supplementary protection certificates, r	cation, all invalued all other could rights in reacher that reexamination or terms it	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, ns, 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.

US Application No.: 15/273,358

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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.

Christopher J. Schall
LEGAL NAME OF INVENTOR

Signature

C-2/-20/3

Date

	US Application No.: <u>15/273,358</u>
COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL BOWEL RET	TRACTOR DEVICES
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 <u>15/273,358</u> filed on <u>September 22, 2016</u> .
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.
	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 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 acknowledge that I have assigned which is hereby conformed 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 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 invo States, European Patent Office and of all other cou- such inventions or discoveries and all rights in s continuations 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.

US Application No.: 15/273,358

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I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary 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.

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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.

Joseph E. Young

LEGAL NAME OF INVENTOR

Signature

6/27/2018

Date

		US Application No.: <u>15/273,358</u>
COME	BINED	DECLARATION AND ASSIGNMENT
Title of Invention: <u>SURGICAL BOW</u>	EL RET	RACTOR DEVICES
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 <u>15/273,358</u> filed on <u>September 22, 2016</u> .
Declaration		
As the below named inventor, I her	reby decl	are that:
The above-identified application ("	'Applicat	tion") was made or authorized by me.
I believe that I am the original inve	ntor or a	n original inventor of a claimed invention or discovery in the Application.
	ity 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 acknowledge that any wil imprisonment of not more than five (5) year	llful false s, 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		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 acknowledge that I have a which is hereby conformed for recordation i	assigned n 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 valuable considerat assigned and transferred to Assignee:	tion, the	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 couch inventions or discoveries and all rigonitinuations thereof, and to all Letters Pasupplementary protection certificates, reexamples.	n, all invented and investigated in second in	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 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.

US Application No.: 15/273,358

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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.

Barry C. Worrell	
LEGAL NAME OF INVENTOR	
Bon c Wand	6-25-7018
Signature	Date

		US Application No.: <u>15/273,358</u>
COMBI	INED I	DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL BOWE	LRET	RACTOR DEVICES
This declaration and assignment is directed to	o:	
. [The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number 15/273,358 filed on September 22, 2016.
Declaration		
As the below named inventor, I herel	by decla	are that:
The above-identified application ("A	Applicati	ion") was made or authorized by me.
I believe that I am the original invent	tor or ar	original inventor of a claimed invention or discovery in the Application.
	y as defi	ts of the Application, including the claims, and I acknowledge the duty to disclose ined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or 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 Lim	ited Liability Company of <u>Delaware</u> .
	(here	inafter designated as the "Assignee"),
I hereby acknowledge that I have ass which is hereby conformed for recordation in	signed 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 valuable consideration assigned and transferred to Assignee:	on, the	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 oth such inventions or discoveries and all right continuations thereof, and to all Letters Pate supplementary protection certificates, reexami	all invented the country in the country in the country in the country in a country	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 notices, 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, a renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use rewhich such Letters Patent may be granted, as fully and entirely as the same would not and sale not been made.

US Application No.: 15/273,358

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.

Jerome R. Morgan	
LEGAL NAME OF INVENTOR	
J. —	6/25/18
Signature	Date

Page 2 of 2

		US Application No.: <u>15/273,358</u>
COM	BINED	DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL BOY	WEL RE	TRACTOR DEVICES
This declaration and assignment is directe	d to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>15/273,358</u> filed on <u>September 22, 2016</u> .
Declaration		
As the below named inventor, I h	ereby dec	lare that:
The above-identified application	("Applica	tion") was made or authorized by me.
I believe that I am the original in	ventor or a	an original inventor of a claimed invention or discovery in the Application.
	ility 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 <u>Delaware</u> .
	(her	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 valuable consider assigned and transferred to Assignee:	ation, the	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
The right to claim priority to the Application of t	on, all involute of the country in t	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 it may be granted for said inventions and discoveries, and in and to all extensions, so, 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.

US Application No.: 15/273,358

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.

William B. Weisenburgh, II

LEGAL NAME OF INVENTOR

Signature

6/25/2018

Date

		US Application No.: <u>15/2/3,358</u>
	COMBINED	DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL	L BOWEL RET	TRACTOR DEVICES
This declaration and assignment is o	lirected to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>15/273,358</u> filed on <u>September 22, 2016</u> .
Declaration		
As the below named inven	or, I hereby decl	lare that:
The above-identified applic	ation ("Applicat	tion") was made or authorized by me.
I believe that I am the origi	nal inventor or a	m original inventor of a claimed invention or discovery in the Application.
I have reviewed and under information which is material to pa this Application in the United State	tentability 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 Lin	nited Liability Company of <u>Delaware</u> .
	(here	einafter designated as the "Assignee"),
I hereby acknowledge that which is hereby conformed for record	I have assigned dation 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 valuable coassigned and transferred to Assignee		sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Ap States, European Patent Office and such inventions or discoveries and continuations thereof, and to all Le supplementary protection certificate	plication, all inv of all other cou all rights in st tters Patent that s, reexamination 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 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 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: 046791 FRAME: 0825

US Application No.: 15/273,358

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.

Christopher J. Hess LEGAL NAME OF INVENTOR

Signature

7 10 2018 Date

US Application No.: <u>15/273,358</u>
COMBINED DECLARATION AND ASSIGNMENT
Title of Invention: SURGICAL BOWEL RETRACTOR DEVICES
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 15/273,358 filed on September 22, 2016.
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.
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 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.
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"),
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: 046791 FRAME: 0827

US Application No.: 15/273,358

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.

Emily A. Schellin
LEGAL NAME OF INVENTOR

Emily A. Schellin

06/25/18

Page 2 of 2