# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3609095

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
CHRISTOPHER J. HESS	10/26/2015
FREDERICK E. SHELTON IV	10/08/2015
DANIEL J. MUMAW	10/26/2015
CRAIG T. GATES	10/26/2015
DOUGLAS E. WITHERS	10/23/2015

### RECEIVING PARTY DATA

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14864118

## **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: rpp@nutter.com

Correspondent Name: NUTTER MCCLENNEN AND FISH LLP

Address Line 1: 155 SEAPORT BOULEVARD

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	100873-722	
NAME OF SUBMITTER:	RORY P. PHEIFFER	
SIGNATURE:	/Rory P. Pheiffer/	
DATE SIGNED:	11/10/2015	
This document serves as an Oath/Declaration (37 CFR 1.63).		

**Total Attachments: 10** 

PATENT REEL: 037000 FRAME: 0747

503562468

COMBINED DECLARATION AND ASSIGNMENT		
Title of Invention: DEVICES AND METHO	DS FOR CLEANING A SURGICAL DEVICE	
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 14/864,118 filed on September 24, 2015.	
Declaration		
As the below named inventor, I hereby de	clare that:	
The above-identified application ("Applic	ation") was made or authorized by me.	
I believe that I am the original inventor or	an original inventor of a claimed invention or discovery in the Application.	
	ents of the Application, including the claims, and I acknowledge the duty to disclose efined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of	
	se statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or oth for filings of this Application in the United States of America.	
Assignment	Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico	
a L	imited Liability Company of <u>Delaware</u> .	
(he	ereinafter designated as the "Assignee"),	
	d the above-identified invention by previous assignment (attached hereto) to Assignee IS Patent Office and I confirm I have and do assign and transfer:	
or		
For good and valuable consideration, that assigned and transferred to Assignee:	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have	
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.		
	Page 1 of 2	

US Application No.: 14/864,118

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: Christopher J. Hess

Signature

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COMBINED DEC	LARATION AND ASSIGNMENT
Title of Invention: DEVICES AND METHODS FOR	CLEANING A SURGICAL DEVICE
This declaration and assignment is directed to:	
The a	attached or filed herewith application of (list of named inventors),
or	
	United States application or PCT international application per 14/864,118 filed on September 24, 2015.
Declaration	
As the below named inventor, I hereby declare that	t:
The above-identified application ("Application") v	was made or authorized by me.
I believe that I am the original inventor or an origi	nal inventor of a claimed invention or discovery in the Application.
	the Application, including the claims, and I acknowledge the duty to disclose in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful false stater imprisonment of not more than five (5) years, or both for fi	nent made in this declaration is punishable under 18 U.S.C. § 1001 by fine or lings of this Application in the United States of America.
4: Guay	con Endo-Surgery, LLC 75 C Street, Suite 202 7nabo, 0969, Puerto Rico
	iability Company of <u>Delaware</u> .
,	designated as the "Assignee"), ove-identified invention by previous assignment (attached hereto) to Assignee office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the suffic assigned and transferred to Assignee:	iency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all inventions States, European Patent Office and of all other countries, such inventions or discoveries and all rights in such A continuations thereof, and to all Letters Patent that may supplementary protection certificates, reexaminations, rene	olication, including all priority rights for other countries arising therefrom and sor discoveries therein disclosed, and any and all Letters Patent of the United which may be granted for such inventions or discoveries, or any of them, all application including any and all provisionals, substitutions, divisions, and be granted for said inventions and discoveries, and in and to all extensions, wals, and reissues thereof, to be held and enjoyed by Assignee for its own use the such Letters Patent may be granted, as fully and entirely as the same would sale not been made.
	Page 1 of 2

US Application No.: 14/864,118

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.

Signature

LEGAL NAME OF INVENTOR: Frederick E. Shelton, IV

10/8/15

Date

2893078.1

Page 2 of 2

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COM	BINED	DECLARATION AND ASSIGNMENT
<b>Γitle of Invention</b> : <u>DEVICES AND N</u>	<u>METHOD</u>	OS FOR CLEANING A SURGICAL DEVICE
This declaration and assignment is directed	i to:	
		The attached or filed herewith application of (list of named inventors),
	or	
		The United States application or PCT international application number <u>14/864,118</u> filed on <u>September 24, 2015</u> .
Declaration		
As the below named inventor, I he	ereby decl	lare that:
The above-identified application (	("Applicat	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 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 acknowledge that any w mprisonment of not more than five (5) year	illful false ars, or both	the 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 C Street, Suite 202 Guaynabo, 0969, Puerto Rico
	a Lir	mited Liability Company of <u>Delaware</u> .
	(here	reinafter designated as the "Assignee"),
I hereby acknowledge that I have which is hereby conformed for recordation	assigned 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 consideral ssigned 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 of the continuations of the continuations of the continuations thereof, and to all Letters Fupplementary protection certificates, reex	on, all involute other couning the couning the country in the coun	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 then and sale not been made.
		Page 1 of 2

US Application No.: 14/864,118

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: Daniel J. Mumaw

Signature

10/26/15 Date

2893079.1

COMBINED DECLARATION AND ASSIGNMENT		
Title of Invention: <u>DEVICES AND METHODS FOR CLEANING A SURGICAL DEVICE</u>		
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 14/864,118 filed on September 24, 2015.
Declaration		
As the belo	w named inventor, I hereby de	clare that:
The above-	identified application ("Application ("Appli	ation") was made or authorized by me.
I believe th	at 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.		
Assignment	a I.	Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico imited Liability Company of <u>Delaware</u> .
		reinafter designated as the "Assignee"),
☐ I hereby ac which is hereby con	knowledge that I have assigned	d the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
or		
For good a Fassigned and transfe		e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.		
		Page 1 of 2

US Application No.: 14/864,118

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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I shall 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.

10/26/15

LEGAL NAME OF INVENTOR: Craig T. Gates

Signature Date

2893081.1

COMBINED DECLARATION AND ASSIGNMENT		
Title of Invention: DEVICES AND METHODS F	OR CLEANING A SURGICAL DEVICE	
This declaration and assignment is directed to:		
	he attached or filed herewith application of (list of named inventors),	
or		
	the United States application or PCT international application umber 14/864,118 filed on September 24, 2015.	
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 o	riginal 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.		
	atement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or or filings of this Application in the United States of America.	
	Ethicon Endo-Surgery, LLC 475 C Street, Suite 202 Guaynabo, 0969, Puerto Rico	
a Limite	ed Liability Company of <u>Delaware</u> .	
(hereina	after 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 sur assigned and transferred to Assignee:	fficiency of which is acknowledged, I hereby assign and transfer and/or have	
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.		
Page 1 of 2		

US Application No.: 14/864,118

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I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

LEGAL NAME OF INVENTOR: Douglas E. Withers

2893082.1

Page 2 of 2