502805896 05/13/2014 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2852490

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
DAVID A. WITT		02/20/2014
ZHIFAN F. HUANG		02/20/2014
TIMOTHY G. DIETZ		03/06/2014
RAYMOND M. BANKS		04/26/2014
JEFFREY L. ALDRIDGE		02/20/2014
STEVE G. BERNATH		03/10/2014
DAVID K. NORVELL		02/20/2014
PATRICK A. WEIZMAN		02/20/2014
JASON L. HARRIS		02/12/2014

RECEIVING PARTY DATA

Name:	ETHICON ENDO-SURGERY, INC.
Street Address:	4545 CREEK ROAD
City:	CINCINNATI
State/Country:	ОНЮ
Postal Code:	45242

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14171035

CORRESPONDENCE DATA

Fax Number:	(412)355-6501			
Correspondence will be sent US Mail.	to the	e-mail address first; if that is unsuccessful, it will be sent via		
Phone:	(412)	355-8690		
Email:	piusp	atents@klgates.com		
Correspondent Name:	K&L	GATES LLP - RAGAE M. GHABRIAL		
Address Line 1:	210 SIXTH AVENUE			
Address Line 2:	K&L GATES CENTER			
Address Line 4:	PITT	SBURGH, PENNSYLVANIA 15222-2613		
ATTORNEY DOCKET NUMBE	R:	END6660USCNT1/090299CON1		
NAME OF SUBMITTER:		RAGAE M. GHABRIAL		

502805896

SIGNATURE:	/Ragae M. Ghabrial/
DATE SIGNED:	05/13/2014
Total Attachments: 25	•
source=05-09-2014_Assignment#page	1.tif
source=05-09-2014_Assignment#page	2.tif
source=05-09-2014_Assignment#page3	3.tif
source=05-09-2014_Assignment#page4	4.tif
source=05-09-2014_Assignment#page	5.tif
source=05-09-2014_Assignment#page	5.tif
source=05-09-2014_Assignment#page	7.tif
source=05-09-2014_Assignment#page8	3.tif
source=05-09-2014_Assignment#pages	9.tif
source=05-09-2014_Assignment#page	10.tif
source=05-09-2014_Assignment#page	11.tif
source=05-09-2014_Assignment#page	12.tif
source=05-09-2014_Assignment#page	13.tif
source=05-09-2014_Assignment#page	14.tif
source=05-09-2014_Assignment#page	15.tif
source=05-09-2014_Assignment#page	16.tif
source=05-09-2014_Assignment#page	17.tif
source=05-09-2014_Assignment#page	18.tif
source=05-09-2014_Assignment#page	19.tif
source=05-09-2014_Assignment#page	20.tif
source=05-09-2014_Assignment#page	21.tif
source=05-09-2014_Assignment#page	22.tif
source=05-09-2014_Assignment#page	23.tif
source=05-09-2014_Assignment#page	24.tif
source=05-09-2014_Assignment#page	25.tif

DOCKET NO. END6660USCNT1/090299CON1 Joint Inventors

ASSIGNMENT

Serial No. <u>14/171,035</u> Filed: February 3, 2014

WHEREAS, David A. Witt, a citizen of the United States, residing at 1187 Chaucer Place, Maineville, Ohio 45039; Zhifan F. Huang, a citizen of the United States, residing at 4378 Serpentine Way, Mason, Ohio 45040; Timothy G. Dietz, a citizen of the United States, residing at 428 West Avenue, Wayne, Pennsylvania 19087; Raymond M. Banks, a citizen of the United States, residing at 22303 Regnart Road, Cupertino, California 95014; Jeffrey L. Aldridge, a citizen of the United States, residing at 106 W. Concord Drive, Lebanon, Ohio 45036; Steven G. Bernath, a citizen of the United States, residing at 275 Welburn Avenue, Unit E, Gilroy, California 95020; David K. Norvell, a citizen of the United States, residing at 570 Doverdale Drive, Monroe, Ohio 45050; Patrick A. Weizman, a citizen of the United States, residing at 6528 Michele Lane, Liberty Township, Ohio 45044; and Jason L. Harris, a citizen of the United States, residing at 5435 Hamilton Road, Lebanon, Ohio 45036; (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to:

SURGICAL INSTRUMENTS AND END EFFECTORS THEREFOR

for which they have this day executed an application for Letters Patent of the United States; and

WHEREAS, Ethicon Endo-Surgery, Inc., a corporation formed under the laws of the State of Ohio, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the sum of One Dollar and other valuable considerations to them moving, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

And for the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection for the said inventions and discoveries and patents hereby conveyed and to enable it to record said title.

PI-3600606 v1

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 2 of 6

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this <u>20</u> day of <u>FeB</u> , 2014. David A. Witt
STATE OF $Ohio$) ss.
COUNTY OF (LILMULTON) BE IT REMEMBERED, That on this <u>ADFM</u> day of <u>Jebmum</u> , 2014, before me, a Notary Public, personally appeared <u>David A. Witt</u> , who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed. WIRGINIA A. VAN DEN BURG Notary Public, State of Ohio My Commission Expires December 15, 2018 N there of WHEREOF, Assignor has hereunto set his hand and seal this <u>20</u> day of <u>Feb</u> , 2014.
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $
therein expressed. Maran Malanho Notary Public Notary Public STATE OF OHIO Recorded in Hamilton County My Comm. Exp. 5/31/14 PATENT

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 3 of 6

IN TESTIMONY WH	EREOF, Assignor has her 4.	eunto set h	is hand and seal this	day of
				(L.S.)
			Timothy G. Dietz	、
STATE OF)	ss.	

)

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Timothy G. Dietz</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Notary Public

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ day of _____ 2014.

Raymond M. Banks

STATE OF

COUNTY OF

COUNTY OF

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Raymond M. Banks</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

SS.

Notary Public

(L.S.)

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 4 of 6

in testimony w <u>February</u> , 20	HEREOF, Assignor has hered 114.	unto set his hand a	and sealthis 20	day of Haluages.)
		. A	firey L. Aldridge	
· .		ſ		
STATE OF	Ohio)		
COUNTY OF	Hamilton) ss.)		
foregoing instrumen	IEMBERED, That on this <u>Appeared</u> Jeffrey L. Aldridge, t in my presence, and I h signed, sealed, and delivered KARA N. TULANKO NOTARY PUBLIC STATE OF OHIO Recorded in Hamilton County My Comm. Exp. 5/31/1	having first made the same as his Mota	e known to him the voluntary act and de	he contents thereof, he did
IN TESTIMONY WI	HEREOF, Assignor has hered	into set his hand a	ind seal this	
		St	even G. Bernath	(L.S.)
STATE OF)		
COUNTY OF) ss.)		
Public, personally ap foregoing instrument	EMBERED, That on this peared <u>Steven G. Bernath</u> , in my presence, and I h signed, sealed, and delivered	who I am satisfic aving first made	ed is the person name known to him the	ned in and who executed the ne contents thereof, he did

÷,

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 5 of 6

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ 2014. (L.S.) David K. Norvell Ohio STATE OF SS. Hamilton COUNTY OF day of Febrary, 2014, before me, a Notary SOH BE IT REMEMBERED, That on this _ Public, personally appeared David K. Norvell, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes N'XARIA O. therein expressed. 1. Julanko KARA N. TULANKO NOTARY PUBLIC STATE OF OHIO **Iotary** Public **Recorded** in Hamilton County My Comm. Exp. 5/31/14 IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this FEB , 2014. Patrick A. Weizman Ohio STATE OF SS. Hamilton COUNTY OF ZOth February, 2014, before me, a Notary day of BE IT REMEMBERED, That on this _ Public, personally appeared Patrick A. Weizman, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed. ara n. Vulanto Notary Public KARA N. TULANKO **NOTARY PUBLIC**

NOTARY PUBLIC STATE OF OHIO Recorded in Hamilton County My Comm. Exp. 5/31/14

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 6 of 6

í

lesa

	19 m	
IN TESTIMONY WHEREOF, Assignor has hereunto	set his hand and seal this day c	of
February, 2014.	Jam Je Mici	(L.S.)
	Jason L. Harris	

١

STATE OF

COUNTY OF

BE IT REMEMBERED, That on this 12th day of February, 2014, before me, a Notary Public, personally appeared Jason L. Harris, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

SS.



Ohio

Hamilton

KIMBERLY MELLISSA MOSES Notary Public, State of Ohio Notary Public My Commission Expires September 23, 2016

ASSIGNMENT

Serial 1	No. <u>14/</u>	171,035	
Filed:	Februar	y 3, 2014	

WHEREAS, David A. Witt, a citizen of the United States, residing at 1187 Chaucer Place, Maineville, Ohio 45039; Zhifan F. Huang, a citizen of the United States, residing at 4378 Serpentine Way, Mason, Ohio 45040; Timothy G. Dietz, a citizen of the United States, residing at 428 West Avenue, Wayne, Pennsylvania 19087; Raymond M. Banks, a citizen of the United States, residing at 22303 Regnart Road, Cupertino, California 95014; Jeffrey L. Aldridge, a citizen of the United States, residing at 106 W. Concord Drive, Lebanon, Ohio 45036; Steven G. Bernath, a citizen of the United States, residing at 275 Welburn Avenue, Unit E, Gilroy, California 95020; David K. Norvell, a citizen of the United States, residing at 570 Doverdale Drive, Monroe, Ohio 45050; Patrick A. Weizman, a citizen of the United States, residing at 6528 Michele Lane, Liberty Township, Ohio 45044; and Jason L. Harris, a citizen of the United States, residing at 5435 Hamilton Road, Lebanon, Ohio 45036; (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to:

SURGICAL INSTRUMENTS AND END EFFECTORS THEREFOR

for which they have this day executed an application for Letters Patent of the United States; and

WHEREAS, Ethicon Endo-Surgery, Inc., a corporation formed under the laws of the State of Ohio, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the sum of One Dollar and other valuable considerations to them moving, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

And for the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection for the said inventions and discoveries and patents hereby conveyed and to enable it to record said title.

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 2 of 6

, 20	/14.				(L.S.)	
			David A. W	Vitt	(2)	
STATE OF	<u>Ohio</u>)	SS.			
COUNTY OF	·)	55.	,		
foregoing instrumen	t in my presence, a	and I having f	irst made known	to him the	2014, before me, a No in and who executed contents thereof, he l for the uses and purp	die die
			Notary Public	:		
IN TESTIMONY WI 2014.	HEREOF, Assignor h	as hereunto set l	nis hand and seal t	his	day of,	
						,
			Zhifan F. H		(L.S.)	
STATE OF	Ohio)				
COUNTY OF)	SS.			
Public, personally ap foregoing instrument	peared Zhifan F. Hu in my presence, a	<mark>uang</mark> , who I an nd I having f	n satisfied is the p irst made known	to him the	014, before me, a No in and who executed contents thereof, he for the uses and purp	d the dic
х			Notary Public			

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 3 of 6

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 6th day of **MARCH**, 2014.

(L.S.)

COUNTY OF

BE IT REMEMBERED, That on this _____ (p) March _, 2014, before me, a Notary day of _ Public, personally appeared Timothy G. Dietz, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

ss.

COMMONWEALTH OF PENNSYLVANIA Notarial Seal Lori MacKnight, Notary Public Westtown Twp., Chester County My Commission Expires Sept. 22, 2014 Member. Pennsylvania Association of Notaries

Notary Public

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ day of _, 2014.

Raymond M. Banks

STATE OF

STATE OF

COUNTY OF

BE IT REMEMBERED, That on this _____ day of _ ____, 2014, before me, a Notary Public, personally appeared Raymond M. Banks, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

SS.

Notary Public

(L.S.)

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 4 of 6

	HEREOF, Assignor has h 14.	ereunto set hi	s hand and sea	this da	y of (L.S.)
			Jeffrey L. Aldridge		(1.5.)
STATE OF	Ohio)	00		
COUNTY OF)	SS.		

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Jeffrey L. Aldridge</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Steven G. Bernath

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ day of _____ day of ______ 2014.

STATE OF

COUNTY OF

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Steven G. Bernath</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

)

ss.

Notary Public

PATENT REEL: 032876 FRAME: 0012

(L.S.)

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 5 of 6

_____(L.S.)

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ day of _____, 2014.

David K. Norvell

STATE OF <u>Ohio</u>)

COUNTY OF

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared **David K. Norvell**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

SS.

Notary Public

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ day of , 2014.

)

)

Ohio

_____(L.S.) Patrick A. Weizman

STATE OF

COUNTY OF

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Patrick A. Weizman</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

SS.

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 6 of 6

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ day of _____, 2014.

				(L.S.)
			Jason L. Harris	、
STATE OF	Ohio)		
COUNTY OF) 	SS.	

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Jason L. Harris</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Notary Public

ASSIGNMENT

Serial	No.	14/1	71,	03.	5	 	 	
Filed:	Feb	ruary	3,	20	14	 	 	

WHEREAS, David A. Witt, a citizen of the United States, residing at 1187 Chaucer Place, Maineville, Ohio 45039; Zhifan F. Huang, a citizen of the United States, residing at 4378 Serpentine Way, Mason, Ohio 45040; Timothy G. Dietz, a citizen of the United States, residing at 428 West Avenue, Wayne, Pennsylvania 19087; Raymond M. Banks, a citizen of the United States, residing at 22303 Regnart Road, Cupertino, California 95014; Jeffrey L. Aldridge, a citizen of the United States, residing at 106 W. Concord Drive, Lebanon, Ohio 45036; Steven G. Bernath, a citizen of the United States, residing at 275 Welburn Avenue, Unit E, Gilroy, California 95020; David K. Norvell, a citizen of the United States, residing at 570 Doverdale Drive, Monroe, Ohio 45050; Patrick A. Weizman, a citizen of the United States, residing at 5528 Michele Lane, Liberty Township, Ohio 45044; and Jason L. Harris, a citizen of the United States, residing at 5435 Hamilton Road, Lebanon, Ohio 45036; (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to:

SURGICAL INSTRUMENTS AND END EFFECTORS THEREFOR

for which they have this day executed an application for Letters Patent of the United States; and

WHEREAS, Ethicon Endo-Surgery, Inc., a corporation formed under the laws of the State of Ohio, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the sum of One Dollar and other valuable considerations to them moving, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

And for the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection for the said inventions and discoveries or that may be necessary to vest in said Assignee the complete title to the said inventions and discoveries and patents hereby conveyed and to enable it to record said title.

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 2 of 6

, 20)14.		
		David	(L.S.)
STATE OF	<u>Ohio</u>)) ss.	
COUNTY OF		ý	
Public, personally a foregoing instrumen	ppeared <u>David A. Witt</u> , w t in my presence, and I	ho I am satisfied is the having first made kn	, 2014, before me, a Notary the person named in and who executed the nown to him the contents thereof, he did untary act and deed for the uses and purposes
		Notary P	Public
IN TESTIMONY WI 2014.	HEREOF, Assignor has here	eunto set his hand and s	seal this day of,
		Zhifan	n F. Huang
STATE OF	Ohio)) ss.	
COUNTY OF)	

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 3 of 6

	/HEREOF, Assignor has here 014.	eunto set his hand and seal this	day of (L.S.)
		Timothy G. Dietz	(2131)
STATE OF)	
COUNTY OF) SS.	

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Timothy G. Dietz</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Notary Public

IN TESTIMONY	WHEREOF, Assigno, 2014.	or has hereunto s	No.	d M. Banks	v of (L.S.)
STATE OF)			
COUNTY OF))	SS.		

BE IT REMEMBERED, That on this ______ day of _____, 2014, before me, a Notary Public, personally appeared **Raymond M. Banks**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Notary Public



SANTA CLARA Galifornia County of State of before me R.C.Singh, Notary Put RAYMOND M. BANK 2014 On Ø BANKS personally appe ared who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal.

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 4 of 6

	014.			(L.S.)
			Jeffrey L. Ald	
STATE OF	Ohio	_)		
COUNTY OF)	SS.	
Public, personally ap foregoing instrumer	ppeared <u>Jeffrey L. Ald</u> nt in my presence, an	ridge , who I and I having f	am satisfied is the per first made known to	, 2014, before me, a Notary son named in and who executed the him the contents thereof, he did t and deed for the uses and purposes
			Notary Public	
	HEREOF Assignor ba	s hereunto set	his hand and seal this	day of
IN TESTIMONY W , 20				· · · · · ·
IN TESTIMONY W , 2((L.S.)
				(L.S.)
, 20	014.		Steven G. Ber	(L.S.)
				(L.S.)

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 5 of 6

IN TESTIMONY WH	· <u>-</u>				
			David K. I	lorvell	(L.S.)
STATE OF	Ohio	_)	SS.		
COUNTY OF)	55.		
Public, personally app foregoing instrument	beared <u>David K. Nor</u> in my presence, and	<mark>vell</mark> , who I ar d I having f	n satisfied is the j irst made known	person named ir to him the co	4, before me, a Notary a and who executed the ontents thereof, he did or the uses and purposes
			Notary Public		
IN TESTIMONY WH		hereunto set l	his hand and seal t	nis d	ay of
			Patrick A.	Weizman	(L.S.)
STATE OF	Ohio	.)	SS.		
COUNTY OF		.)	.		
Public, personally appropriate foregoing instrument	eared <u>Patrick A. Wei</u> in my presence, and	<u>zman</u> , who I d I having f	am satisfied is the irst made known	person named i to him the co	

therein expressed.

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 6 of 6

IN TESTIMONY	WHEREOF, Assignor has hereunto set his hand and seal this	day of	
	2014.		(L.S.)
	Jason L. Harris		```

STATE OF Ohio) COUNTY OF)

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Jason L. Harris</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

ss.

Notary Public

DOCKET NO. END6660USCNT1/090299CON1 Joint Inventors

ASSIGNMENT

Serial No. <u>14/171,035</u> Filed: <u>February 3, 2014</u>

WHEREAS, David A. Witt, a citizen of the United States, residing at 1187 Chaucer Place, Maineville, Ohio 45039; Zhifan F. Huang, a citizen of the United States, residing at 4378 Serpentine Way, Mason, Ohio 45040; Timothy G. Dietz, a citizen of the United States, residing at 428 West Avenue, Wayne, Pennsylvania 19087; Raymond M. Banks, a citizen of the United States, residing at 22303 Regnart Road, Cupertino, California 95014; Jeffrey L. Aldridge, a citizen of the United States, residing at 106 W. Concord Drive, Lebanon, Ohio 45036; Steven G. Bernath, a citizen of the United States, residing at 275 Welburn Avenue, Unit E, Gilroy, California 95020; David K. Norvell, a citizen of the United States, residing at 570 Doverdale Drive, Monroe, Ohio 45050; Patrick A. Weizman, a citizen of the United States, residing at 6528 Michele Lane, Liberty Township, Ohio 45044; and Jason L. Harris, a citizen of the United States, residing at 5435 Hamilton Road, Lebanon, Ohio 45036; (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to:

SURGICAL INSTRUMENTS AND END EFFECTORS THEREFOR

for which they have this day executed an application for Letters Patent of the United States; and

WHEREAS, Ethicon Endo-Surgery, Inc., a corporation formed under the laws of the State of Ohio, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the sum of One Dollar and other valuable considerations to them moving, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

And for the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection for the said inventions and discoveries and discoveries or that may be necessary to vest in said Assignee the complete title to the said inventions and discoveries and patents hereby conveyed and to enable it to record said title.

03/10/14

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 2 of 6

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ day of _____, 2014. _____(L.S.) David A. Witt STATE OF <u>Ohio</u> SS. COUNTY OF BE IT REMEMBERED, That on this _____ day of _____, 2014, before me, a Notary Public, personally appeared David A. Witt, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed. Notary Public IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this _____ day of _____ 2014. ___(L.S.)

Zhifan F. Huang

STATE OF COUNTY OF Ohio

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared Zhifan F. Huang, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

SS.

)

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 3 of 6

IN TESTIMONY WHEREOF, Assignor has he , 2014.	reunto set his hand and seal this day of
,,	(L.S.)
	Timothy G. Dietz
STATE OF)
COUNTY OF) SS.)
Public, personally appeared <u>Timothy G. Dietz</u> foregoing instrument in my presence, and I	day of, 2014, before me, a Notary , who I am satisfied is the person named in and who executed the having first made known to him the contents thereof, he did ed the same as his voluntary act and deed for the uses and purposes
	Notary Public

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this ______ day of ______ day of _______.

)

STATE OF

COUNTY OF

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared **Raymond M. Banks**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

SS.

Notary Public

Raymond M. Banks

(L.S.)

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 4 of 6

	HEREOF, Assignor has her 14.	is hand and seal this	day of	
			Jeffrey L. Aldridge	(L.S.)
STATE OF	Ohio)		
COUNTY OF	· · · · · · · · · · · · · · · · · · ·)	SS.	

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Jeffrey L. Aldridge</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Notary Public

IN TESTIMONY WHERE	OF, Assignor has here	unto set his	hand and seal this	day of	
, 2014.	Jeb .	Steve	<u>Steven</u> G. Bernath 3/10/14	(L.S.	.)
STATE OF	· · ·)			
COUNTY OF)	SS.		

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Steven G. Bernath</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

See attached notarial certificate

See attached notarial certificate

CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT

State of California

County of Santa Clara	a		1	11	
on March 10,	2014	before me,	Konifa	Heer	, a Notary Public
Personally appeared	Steve	· ^ /	bernath	· · ·	
5 11 -		Nam	ne(s) of Signer(s)s		

Who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to within instruments and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ise), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instruments.

I certify under Penalty of Perjury under the laws of the State of California that the forgoing paragraph is true and correct.

Witness my hand and official seal

Louija Signature



OPTIONAL						
Description of Attached Document						
Title of Type of Document_						
Document Date:	Number of Pages:					
Signer(s) Other Than Name Above:						
Capacity(ies) Claimed by Signer(s) Signer(s) Name Steve G. Bernath	Signer(s) Name					
Individual Corporate Officer Title(s) Partner: Limited or General Attorney –in-Fact Guardian or Conservator Other:	Individual Corporate Officer Title(s) Partner: Limited or General Attorney -in-Fact Trustee Guardian or Conservator					
Signer is Representing	Other: Signer is Representing					

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 5 of 6

, 2014.						
		David K. Norvell (L.S.)				
STATE OF	Ohio))	SS.			
COUNTY OF)				
Public, personally appear foregoing instrument in	ed <u>David K. Norvell</u> , my presence, and I	who I am having fi	ı satisfied is rst made kn	the person own to him	, 2014, before me, a Notary named in and who executed the m the contents thereof, he did d deed for the uses and purposes	
			Notary P	ublic		
			itotury i	uono		
IN TESTIMONY WHER	EOF, Assignor has here	unto set h	is hand and s	eal this	day of	
······································					(L.S.)	
			Patric	k A. Weizm	lan	
STATE OF	<u>Ohio</u>)	SS.			
COUNTY OF	<u> </u>)				
	BERED, That on this _		,			

Public, personally appeared <u>Patrick A. Weizman</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

Attorney Docket Number: END6660USCNT1/090299CON1 Serial No. 14/171,035 Page 6 of 6

IN TESTIMONY	WHEREOF,	Assignor has hereunto	set his hand and seal this	day of	
·····	, 2014.				
	·			((L.S.)
			Jason L. Harris		

STATE OF Ohio) COUNTY OF)

BE IT REMEMBERED, That on this ______ day of ______, 2014, before me, a Notary Public, personally appeared <u>Jason L. Harris</u>, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

SS.

Notary Public

PATENT REEL: 032876 FRAME: 0027

RECORDED: 05/13/2014