

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5591164

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	09/20/2017

CONVEYING PARTY DATA

Name	Execution Date
MEDTRONIC INTERNATIONAL IP GMBH	09/12/2018

RECEIVING PARTY DATA

Name:	Covidien LP
Street Address:	15 Hampshire Street
City:	Mansfield
State/Country:	MASSACHUSETTS
Postal Code:	02048

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15892551

CORRESPONDENCE DATA**Fax Number:** (203)492-5785*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:** 203-492-5000**Email:** rs.patents.two@medtronic.com**Correspondent Name:** COVIDIEN LP**Address Line 1:** 60 MIDDLETOWN AVENUE**Address Line 2:** MAILSTOP 54, LEGAL DEPT.**Address Line 4:** NORTH HAVEN, CONNECTICUT 06473

ATTORNEY DOCKET NUMBER:	C00014586.USU2(203-11635)
NAME OF SUBMITTER:	KEVIN P. FERGUSON
SIGNATURE:	/Kevin P. FERGUSON, Reg. #51043/
DATE SIGNED:	06/26/2019

Total Attachments: 8

source=C00014586Assignment4#page1.tif

source=C00014586Assignment4#page2.tif

source=C00014586Assignment4#page3.tif

source=C00014586Assignment4#page4.tif

source=C00014586Assignment4#page5.tif

source=C00014586Assignment4#page6.tif

source=C00014586Assignment4#page7.tif

source=C00014586Assignment4#page8.tif

Nunc-pro-tunc Assignment

THIS NUNC-PRO-TUNC ASSIGNMENT IS EXECUTED BY

Medtronic International IP GmbH
Address: Victor von Bruns-Strasse 19, 8212 Neuhausen am Rheinfall, Switzerland
(hereinafter 'Assignor')

IN FAVOUR OF

Covidien LP
Address: 15 Hampshire Street, Mansfield, MA 02048, U.S.A.
(hereinafter 'Assignee')

WHEREAS the Assignor is the sole owner of invention(s) and patent application(s) titled:

See Attached Schedule A

hereinafter referred to as the "Inventions"

WHEREAS Assignee is desirous of acquiring the full (100%) share in the right, title and interest in, to and under the Inventions above and the patent application with the filing number listed above, including all patents that may issue thereof, and the inventions covered thereby;

NOW THEREFORE, with reference to Section 5.1 (a) of the Amended and Restated Medical-Surgical Cost Sharing Agreement effective as of September 20, 2017, Assignor as legal and beneficial owner hereby does assign and transfer to Assignee, its successors, legal representatives and assign absolutely and free from all incumbrances, the full interest of Assignor's right and title in the Inventions above and in the patent application with the filing number listed above as well as in all patent applications, utility model applications, design applications filed in any country and other intellectual property rights basing priority on the patent application above including the right to claim priority under the Paris Convention for the Protection of Industrial Property, all re-examination applications, all re-issue applications, and any patents, utility models, designs or other intellectual property rights which may issue for the Inventions above. All interests in property in the Inventions and applications above are herewith transferred to the Assignee.

Assignor further agrees to execute all such further papers and perform such other acts as assignee may reasonably request to obtain or maintain such patents, utility models, designs or other intellectual property rights.

Authorized signatory of Assignor



Signature

Name: Hakan Olsson

Place, Date: Neuhausen am Rheinfall, 12 Sep 2018

Witness of Assignor:

Signature



Name: NICOLA GEDEN

Place, Date Neuhausen am Rheinfall, 12 Sep 2018

Assignee hereby acknowledges and agrees to such assignment and transfer

Authorized signatory of Assignee



Signature

Name: Thomas A. Beaton

Place, Date: Boulder, CO-USA 9/29/2018

Witness of Assignee:

Signature:



Name:

Kim Blair

Place, Date:

Boulder, CO-USA 9/29/2018

SCHEDULE A

Patents and Patent Applications

Docket Number	Filing Date	Application No.	Title
C00015020.USU1	August 2, 2017	US - 15/666,784	SURGICAL INSTRUMENTS FOR ENGAGING TISSUE TO STABILIZE TISSUE AND FACILITATE TISSUE MANIPULATION
C00015411.USD1	June 16, 2017	US - 29/607,810	VESSEL SEALER FOR TONSILECTOMY
C00015411.EPD2	December 7, 2017	EP - 004539112	VESSEL SEALER FOR TONSILECTOMY
C00015666.USU1	July 10, 2017	US - 15/645,429	SURGICAL INSTRUMENTS FOR TISSUE REMOVAL
C00013914.USU1	June 8, 2017	US - 15/617,283	KNIFE LOCKOUT FOR ELECTROSURGICAL FORCEPS
C00013914.EPU2	June 7, 2018	EP - 18176435.8	KNIFE LOCKOUT FOR ELECTROSURGICAL FORCEPS
C00013832.USU1	February 9, 2017	US - 15/428,609	ADAPTERS, SYSTEMS INCORPORATING THE SAME, AND METHODS FOR PROVIDING AN ELECTROSURGICAL FORCEPS WITH CLIP-APPLYING FUNCTIONALITY
C00013832.CNM3	February 9, 2018	CN - 201820226777.3	A SURGICAL SYSTEM AND ADAPTOR
C00013832.EPU2	February 8, 2018	EP - 18155801.6	ADAPTERS, SYSTEMS INCORPORATING THE SAME, AND METHODS FOR PROVIDING AN ELECTROSURGICAL FORCEPS WITH CLIP-APPLYING FUNCTIONALITY
356276.USU1	May 19, 2017	US - 15/600,304	SYSTEMS AND METHODS FOR TRACKING AND IMAGING A TREATMENT PROBE HAVING AN INTEGRATED SENSOR
356276.CAU3	May 11, 2018	CA - 3,004,670	SYSTEMS AND METHODS FOR TRACKING AND IMAGING A TREATMENT PROBE HAVING AN INTEGRATED SENSOR
356276.AUU4	May 16, 2018	AU - 2018203457	SYSTEMS AND METHODS FOR TRACKING AND IMAGING A TREATMENT PROBE HAVING AN INTEGRATED SENSOR
356276.EPU2	May 18, 2018	EP - 18173304.9	SYSTEMS AND METHODS FOR TRACKING AND IMAGING A TREATMENT PROBE HAVING AN INTEGRATED SENSOR
C00015858.USU1	June 8, 2017	US - 15/617,633	ELECTROSURGICAL APPARATUS
C00015070.CNU1	July 31, 2017	CN - 201720945695.X	HEMOSTAT

Docket Number	Filing Date	Application No.	Title
C00015292.WOU1	March 13, 2017	PCT - PCT/CN2017/076429	ENERGY-BASED SURGICAL INSTRUMENT FOR GRASPING, TREATING, AND/OR CUTTING TISSUE
356662WO01	October 9, 2016	PCT - PCT/CN2016/101557	SYSTEM AND METHOD FOR DRIVING ULTRASOUND IMAGING TRANSDUCERS
356663WO01	September 28, 2016	PCT - PCT/CN2016/100528	SYSTEM AND METHOD FOR PARALLELIZATION OF CPU AND GPU PROCESSING FOR ULTRASOUND IMAGING DEVICES
356712WO01	February 13, 2017	PCT - PCT/CN2017/073353	CONTACTLESS CIRCUITRY FOR CORDED SURGICAL DEVICES
C00015511.WOU1	March 13, 2017	PCT - PCT/CN2017/076392	INFLOW AND OUTFLOW CONTROL OF A CLOSED COOLING SYSTEM
C00015294.WOU1	March 13, 2017	PCT - PCT/CN2017/076386	ELECTROSURGICAL INSTRUMENT WITH TRIGGER DRIVEN CUTTING FUNCTION
C00013294.WOU1	February 10, 2017	PCT - PCT/CN2017/073208	SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR PROCESSING AND COMPOUNDING ULTRASOUND IMAGES IN THE PRESENCE OF MOTION
C00016552.WOU1	August 31, 2017	PCT - PCT/CN2017/099878	SYSTEMS AND METHODS FOR SENSING TEMPERATURE AT DIFFERENT LOCATIONS ON A MICROWAVE ANTENNA USING MULTIPLE FIBER SENSORS
C00015178.WOU1	August 8, 2017	PCT - PCT/CN2017/096337	ELECTROSURGICAL APPARATUS WITH SAFETY INSULATION FEATURES
C00015291.WOU1	August 7, 2017	PCT - PCT/CN2017/096188	VESSEL SEALING AND DISSECTION WITH CONTROLLED GAP
C00015711.WOU1	August 22, 2017	PCT - PCT/CN2017/098435	ENERGY-BASED SURGICAL INSTRUMENTS AND SYSTEMS CONFIGURED TO MINIMIZE THERMAL SPREAD
C00015711.USN2	July 13, 2018	US - 16/070,003	ENERGY-BASED SURGICAL INSTRUMENTS AND SYSTEMS CONFIGURED TO MINIMIZE THERMAL SPREAD
H-EM-00254.AUU2	02/23/2016	2016201101	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
H-EM-00254.CAU3	02/18/2016	2,921,141	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
H-EM-00254.CNU4	03/09/2016	201610133162.1	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
II-EM-00254.EPU6	03/09/2016	16159324.9	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER

Docket Number	Filing Date	Application No.	Title
H-EM-00254.JPU5	02/29/2016	2016-36980	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
H-EM-00254US01	01/20/2016	15/001,633	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
H-EM-00254USPRO	03/10/2015	62/130724	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
H-EM-00242USPRO	03/12/2015	62/131970	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.USU1	02/19/2016	15/047,972	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.CAU3	02/24/2016	2921605	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.AUU2	02/29/2016	2016201279	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.JPU5	03/04/2016	2016-42269	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.CNU4	03/09/2016	201610132978.2	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.EPU6	03/11/2016	16159831.3	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.DEN7	03/11/2016	16159831.3	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.FRN8	03/11/2016	16159831.3	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.GBN9	03/11/2016	16159831.3	LIGATION AND SPECIMEN RETRIEVAL DEVICE
H-EM-00242.IEN10	03/11/2016	16159831.3	LIGATION AND SPECIMEN RETRIEVAL DEVICE
356413.CAU3	02/16/2017	2958160	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
356413.CNU4	02/23/2017	2017100997220	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
356413.EPU6	02/23/2017	17157606.9	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
356413.JPU5	02/22/2017	2017-30800	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
356413.USU2	02/20/2017	15/437,059	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
356413IN01	02/24/2016	201621006379	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
H-US-04008CA01	12/17/2015	2915479	SURGICAL CLIP APPLIER WITH INTEGRATED CUTTER
H-US-04008CN01	01/27/2016	201610055870.8	SURGICAL CLIP APPLIER WITH INTEGRATED CUTTER
H-US-04008EP01	01/27/2016	16152907.8	SURGICAL CLIP APPLIER WITH INTEGRATED CUTTER

Docket Number	Filing Date	Application No.	Title
H-US-04008US01	01/28/2015	62/108582	SURGICAL CLIP APPLIER WITH INTEGRATED CUTTER
H-US-04008US02	10/19/2015	14/886396	SURGICAL CLIP APPLIER WITH INTEGRATED CUTTER
H-US-04180CA01	11/24/2015	2913038	REPOSABLE CLIP APPLIER
H-US-04180CN01	01/07/2016	201610009422.4	REPOSABLE CLIP APPLIER
H-US-04180EP01	01/06/2016	16150287.7	REPOSABLE CLIP APPLIER
H-US-04180US01	01/07/2015	62/100632	REPOSABLE CLIP APPLIER
H-US-04180US02	10/19/2015	14/886203	REPOSABLE CLIP APPLIER
H-US-04180.USC3	2/16/2018	15/898,266	REPOSABLE CLIP APPLIER
356734USPRO	06/20/2016	62/352,045	SURGICAL CLOSURE APPARATUS AND METHOD
356734.USU1	05/26/2017	15/606,236	SURGICAL CLOSURE APPARATUS AND METHOD
356642.CNU3	12/21/2016	201611193533.1	METHODS OF PERFORMING A BARIATRIC PROCEDURE AND SURGICAL DEVICES FOR USE THEREWITH
356642.EPU5	12/21/2016	16205719.4	METHODS OF PERFORMING A BARIATRIC PROCEDURE AND SURGICAL DEVICES FOR USE THEREWITH
356642.JPU4	12/16/2016	2016-244329	METHODS OF PERFORMING A BARIATRIC PROCEDURE AND SURGICAL DEVICES FOR USE THEREWITH
356642.USU2	12/02/2016	15/367,425	METHODS OF PERFORMING A BARIATRIC PROCEDURE AND SURGICAL DEVICES FOR USE THEREWITH
356642IN01	12/22/2015	6824/CHE/2015	METHODS OF PERFORMING A BARIATRIC PROCEDURE AND SURGICAL DEVICES FOR USE THEREWITH
C00014180.USP1	02/22/2017	62/462,063	SURGICAL CLIP APPLIER INCLUDING INSERTS FOR JAW ASSEMBLY
C00014180.USU2	01/05/2018	15/863,723	SURGICAL CLIP APPLIER INCLUDING INSERTS FOR JAW ASSEMBLY
C00013570.USP1	02/22/2017	62/462,039	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
C00013570.USU2		15/873,060	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA

Docket Number	Filing Date	Application No.	Title
C00013621.USP1	11/01/2016	62/415,597	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
C00013621.USU2	09/15/2017	15/705,337	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
356735USPRO	02/06/2017	62/455,077	SURGICAL WOUND CLOSURE APPARATUS
356735.USU1	1/5/2018	15/863,025	SURGICAL WOUND CLOSURE APPARATUS
C00014586.USU2	2/9/2018	15/892,551	SURGICAL IMPLANTS INCLUDING SENSING FIBERS
C00014586.USP1	3/28/2017	62/477,458	SURGICAL BUTTRESS INCLUDING SENSING FIBERS
C00014587.USP1	12/15/2017	62/599,232	SURGICAL IMPLANTS INCLUDING SENSING FIBERS
C00014178.USP1	05/04/2017	62/501,125	REPOSABLE MULTI-FIRE SURGICAL CLIP APPLIER
C00014178.USU2	4/9/2018	15/947,936	REPOSABLE MULTI-FIRE SURGICAL CLIP APPLIER
356267.USN7	4/17/2018	15/768,854	ENDOSCOPIC REPOSABLE SURGICAL CLIP APPLIER
356136.USN3	4/20/2018	15/769,805	FIRING COUNTER FOR MEDICAL DEVICES
356136W001	11/16/2015	PCT/CN2015/094655	FIRING COUNTER FOR MEDICAL DEVICES
356136.CNN2	11/16/2015	201580084573.X	FIRING COUNTER FOR MEDICAL DEVICES
C00013570.USU2	01/17/ 2018	15/873,060	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
C00013570.USP1	02/22/2017	62/462,039	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
C00013570.EPU4	02/21/2018	18157818.8	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
C00013570.CNU3	02/22/2018	201810153919.2	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
C00014580.USU5	11/30/2017	15/826,837	SURGICAL STAPLING INSTRUMENT WITH CURVED END EFFECTOR
C00014580.INU1	12/02/ 2016	201611041364	SURGICAL STAPLING INSTRUMENT WITH CURVED END EFFECTOR
C00014580.EPU4	12/01/2017	17204912.4	SURGICAL STAPLING INSTRUMENT WITH CURVED END EFFECTOR

Docket Number	Filing Date	Application No.	Title
C00014580.CAU3	11/14/2017	2985422	SURGICAL STAPLING INSTRUMENT WITH CURVED END EFFECTOR
C00014580.AUU2	11/07/2017	2017258826	SURGICAL STAPLING INSTRUMENT WITH CURVED END EFFECTOR
C00015341.USU1	01/26/ 2018	15/880,583	INTRAOPERATIVE LENS CLEANING DEVICE
C00013621.USU2	09/15/2017	15/705,337	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
C00013621.USP1	11/01/2016	62/415,597	APPARATUS AND ASSOCIATED METHODOLOGIES FOR CREATING A STOMA
H-US-04025US01	10/01/2014	14/503481	METHOD OF MANUFACTURING JAW MEMBERS FOR SURGICAL STAPLING INSTRUMENT
H-US-04025.USV2	03/14/2018	15/920,859	JAW MEMBERS AND METHODS OF MANUFACTURE
H-US-04025EP01	09/30/2015	15187549.9	JAW MEMBERS AND METHODS OF MANUFACTURE
C00013541.USD8	10/21/ 2016	29/581,718	STAPLE CARTRIDGE
C00013541.RUD6	11/01/ 2016	2016504375	CARTRIDGE FOR SURGICAL STAPLING INSTRUMENT
C00013541.JPD5	11/01/2016	2016-23794	CARTRIDGE FOR SURGICAL STAPLING INSTRUMENT
C00013541.IND1	05/02/2016	283104	CARTRIDGE FOR SURGICAL STAPLING INSTRUMENT
C00013541.EPD7	10/28/2016	003438092	CARTRIDGE FOR SURGICAL STAPLING INSTRUMENT
C00013541.CND4	11/02/2016	2016305270327	CARTRIDGE FOR SURGICAL STAPLING INSTRUMENT
C00013541.CAD3	11/02/2016	171310	CARTRIDGE FOR SURGICAL STAPLING INSTRUMENT
C00013541.AUD2	10/27/2016	201616052	CARTRIDGE FOR SURGICAL STAPLING INSTRUMENT