## 505285799 01/18/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
NAOMI BUCKLEY	12/12/2011
BENJAMIN J. CLARK	12/02/2011
MICHAEL CUMMINS	12/12/2011
DANNY DONOVAN	12/13/2011
LUKE HUGHES	12/08/2011
BRIAN KELLY	12/12/2011
GARY KELLY	12/07/2011
GRACE KELLY	12/12/2011
JOHN KELLY	12/07/2011
GWENDA MCMULLIN	12/08/2011
KARUN D. NAGA	11/29/2011
STEPHEN NASH	12/07/2011
ERIC RYBA	11/29/2011
FIACHRA SWEENEY	12/11/2011
VINCENZO TILOTTA	12/08/2011
ROMAN TUROVSKIY	12/02/2011
LANA WOOLLEY	12/07/2011
DENISE ZARINS	11/29/2011
MARK GELFAND	12/16/2011
MARK S. LEUNG	12/07/2011
BARRY MULLINS	01/05/2012
MICHAEL TUROVSKIY	01/25/2012

## **RECEIVING PARTY DATA**

Name:	MEDTRONIC ARDIAN LUXEMBOURG S.A.R.L.
Street Address:	102 RUE DES MARAICHERS
City:	LUXEMBOURG
State/Country:	LUXEMBOURG
Postal Code:	L2124

**PROPERTY NUMBERS Total: 1** 

PATENT REEL: 048091 FRAME: 0888

505285799

Property Type	Number
Application Number:	16221174

#### **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: rs.vasciplegal@medtronic.com

Correspondent Name: MEDTRONIC VASCULAR, INC.

Address Line 1: 3576 UNOCAL PLACE

Address Line 4: SANTA ROSA, CALIFORNIA 95403

ATTORNEY DOCKET NUMBER:	P0041118.US01CON
NAME OF SUBMITTER:	ALANA T. BERGMAN
SIGNATURE: /Alana T. Bergman/	
DATE SIGNED:	01/18/2019

### **Total Attachments: 23**

source=P41118USU24ExecutedAssignment#page1.tif source=P41118USU24ExecutedAssignment#page2.tif source=P41118USU24ExecutedAssignment#page3.tif source=P41118USU24ExecutedAssignment#page4.tif source=P41118USU24ExecutedAssignment#page5.tif source=P41118USU24ExecutedAssignment#page6.tif source=P41118USU24ExecutedAssignment#page7.tif source=P41118USU24ExecutedAssignment#page8.tif source=P41118USU24ExecutedAssignment#page9.tif source=P41118USU24ExecutedAssignment#page10.tif source=P41118USU24ExecutedAssignment#page11.tif source=P41118USU24ExecutedAssignment#page12.tif source=P41118USU24ExecutedAssignment#page13.tif source=P41118USU24ExecutedAssignment#page14.tif source=P41118USU24ExecutedAssignment#page15.tif source=P41118USU24ExecutedAssignment#page16.tif source=P41118USU24ExecutedAssignment#page17.tif source=P41118USU24ExecutedAssignment#page18.tif source=P41118USU24ExecutedAssignment#page19.tif source=P41118USU24ExecutedAssignment#page20.tif source=P41118USU24ExecutedAssignment#page21.tif source=P41118USU24ExecutedAssignment#page22.tif source=P41118USU24ExecutedAssignment#page23.tif

## **ASSIGNMENT**

WHEREAS, we, NAOMI BUCKLEY; BENJAMIN J. CLARK; MICHAEL CUMMINS; DANNY DONOVAN; LUKE HUGHES; BRIAN KELLY; GARY KELLY; GRACE KELLY; JOHN KELLY; GWENDA MCMULLIN; KARUN D. NAGA; STEPHEN NASH; ERIC RYBA; FIACHRA SWEENEY; VICENZO TILOTTA; ROMAN TUROVSKIY; LANA WOOLLEY; DENISE ZARINS; MARK GELFAND; MARK S. LEUNG; BARRY MULLINS; and MICHAEL TUROVSKIY, are the inventors of "NEUROMODULATION CRYOTHERAPEUTIC DEVICES AND ASSOCIATED SYSTEMS AND METHODS", filed on October 23, 2011, U.S. Application, Serial No. 13/279,326 executed by the undersigned on the dates written below; and

WHEREAS, <u>MEDTRONIC ARDIAN LUXEMBOURG S.a.r.l.</u> having a place of business at <u>102 rue des Maraichers</u>, <u>Luxembourg</u>, <u>Luxembourg</u>, <u>Luxembourg</u> <u>L2124</u> hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said invention and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor including our rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by ASSIGNEE for its own use and behoof and use and behoof of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made;

AND, for the consideration aforesaid, we materially represent to ASSIGNEE, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with ASSIGNEE, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to ASSIGNEE, its successors or assigns, but at ASSIGNEE'S expense.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

## P41118.USU24

IN WITNESS WHEREOF, I have hereunto set my hand on this <u>la</u> day of <u>bec</u>, 2011.

NAOMI BUCKLEY

WITNESS BY:

Signature

Name

BENJAMIN J. CLARK
State of <u>california</u>
County of Santa clara
on 12/2/2011 before me, My-Linh Tran , Notary Public, personally appeared BENJAMIN J. CLARK, who proved to me on the basis of satisfactory evidence to be the person whose names (s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(i) 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 <u>California</u> that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.  MY-LINH TRAN COMM. # 1935762 NOTARY PUBLIC-CALIFORNIA SANTA CLARA COUNTY MY COMM. EXP. MAY 9, 2015 Signature  (Seal)

IN WITNESS WHEREOF, I have hereunto set my hand on this 2 day of bec, 2011.

IN WITNESS WHEREOF, I have hereunto set my hand on this  $\underline{\mathcal{D}^{\text{tc}}}$  day of  $\underline{\Delta ec}$ , 2011.

WITNESS BY:

JOHN GERAGHTY Name

IN WITNESS WHEREOF, I have hereunto set my hand on this 13 day of 000, 2011.

WITNESS BY:

Michael Cummins
Name

IN WITNESS WHEREOF, I have hereunto set my hand on this $\frac{1}{8}$ day of $\frac{1}{2}$ day of $\frac{1}{2}$		
		LUKE HUGHES
WITNESS BY:	O. Cures Signature	
	ORLA CURRAN Name	

IN WITNESS WHEREOF, I have hereunto set my hand on this 12 day of 1ee, 2011.

BRIAN KELL

WITNESS BY:

Signature

NAOMI BUCKLEY

Name

State of California		
County of Sonoma		
On 12 - 7 - 11 hoforo mo Japano I. Laightan Natara Bublia yang a la		
On 12-7-11 before me, <u>Janene L. Leighton, Notary Public</u> , personally		
appeared GARY KELLY, who proved to me on the basis of satisfactory evidence to be		
the person(s) whose names(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.		
0		
Signature January (Seal)		

IN WITNESS WHEREOF, I have hereunto set my hand on this  $\underline{\mathcal{P}}$  day of  $\underline{\mathcal{P}}$ , 2011.

IN WITNESS WHEREOF, I have hereunto set my hand on this 12 day of 10cc., 2011.

RACE KELL

WITNESS BY:

Signature

CIARA LANIGANI

Name

IN WITNESS WHEREOF, I have hereunto set my hand on this  $\frac{2^{\kappa}}{2}$  day of  $\frac{2^{\kappa}}{2}$ .

JOHN KELLY

WITNESS BY:

Mary 5 mallay

MARY O MALLEY

Name

IN WITNESS WHEREOF, I have hereunto set my hand on this day of Dec., 2011.

QUENDA MCMULLIN

WITNESS BY:

Signature

Lana Woolley
Name

State of CANFWANK
County of SASTA CLARA
On November 29 2011 before me, CATH M. WORL , Notary Public,
personally appeared KARUN D. NAGA, who proved to me on the basis of satisfactory
evidence to be the person(s) whose names(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
that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.  CATHY M. WONG COMM. #1888578 Notary Public - California Santa Clara County My Comm. Expires Jun. 4, 2014
Signature (Seal)
J'

IN WITNESS WHEREOF, I have hereunto set my hand on this 29th day of Movember, 2011.

### P41118.USU24

IN WITNESS WHEREOF, I have hereunto set my hand on this  $\frac{1}{2}$  day of  $\frac{1}{2}$  2011.

Staden Nash STEPHEN NASH

WITNESS BY:

Signature

MARY O MALLEY

Name

State of CANFigurit
County of SASTA CLARA
On Movember 29 2011 before me, CATH, M, WMG , Notary Public,
personally appeared ERIC RYBA, who proved to me on the basis of satisfactory
evidence to be the person(s) whose names(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
that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.  CATHY M. WONG COMM. #1888578 Notary Public - California Santa Clara County My Comm. Expires Jun. 4, 2014
Signature(Seal)
U °

IN WITNESS WHEREOF, I have hereunto set my hand on this 29 day of Not 2011.

IN WITNESS WHEREOF, I have hereunto set my hand on this <u>il</u> day of <u>Dec</u>, 2011.

FIÁCHRA SWEENEY

WITNESS BY:

Signature

PHECAN

Name

IN WITNESS WHEREOF, I have hereunto set my hand on this  $8\pi$  day of <u>PEC</u>, 2011.

VICENZO TILOTTA

VINCENZO

8TH DEC 2011

WITNESS BY:

Signature

Name

**ROMAN TUROVSKIY** State of <u>california</u> County of Santa clara On 12/2/2011 before me, MU-Linh Tran, Notary Public, personally appeared ROMAN TUROVSKIY, who proved to me on the basis of satisfactory evidence to be the person (x) whose names (x) (s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his her/their authorized capacity() and that by (his/her/their signature) on the instrument the person (x), or the entity upon behalf of which the person (x) 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. MY-LINH TRAN (Seal)

IN WITNESS WHEREOF, I have hereunto set my hand on this 2 day of 2011.

IN WITNESS WH	EREOF, I have hereunto se	et my hand on this 74h	day of <u>Dec</u> , 2011.
		Lana Woolley	My
WITNESS BY:	Roman Wood Signature Roman Wood		

Name

State of CAUFINAL	
County of Sam Chang	
On November 29 2011 before	me, CATHY M. Work , Notary Public,
	s, who proved to me on the basis of satisfactory
evidence to be the person(s) whose na	ames(s) is/are subscribed to the within instrument
and acknowledged to me that he/she/t	hey 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 per	son(s) acted, executed the instrument.
certify under PENALTY OF PERJUR	Y under the laws of the State of
that the foregoing paragraph is true an	
paragraph is the diff	and the second description of the second des
WITNESS my hand and official seal.	CATHY M. WONG COMM. #1888578
	Notary Public - California Santa Clara County My Comm. Expires Jun. 4, 2014
Car	by the state of th
Signature	(Seal)

IN WITNESS WHEREOF, I have hereunto set my hand on this 29th day of November, 2011.

**DENISE ZARINS** 

State of New York County of Men York
County of Men york
On 16th De 2011 before me, RATHOND FUN G, Notary Public,
personally appeared MARK GELFAND, who proved to me on the basis of satisfactory
evidence to be the person(s) whose names(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 that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
Signature Papuard Fug (Seal)
Raymond Fung

IN WITNESS WHEREOF, I have hereunto set my hand on this \_\_\_\_ day of \_\_\_\_\_, 2011.

**MARK GELFAND** 

Notary Public State of New York No. 01FU6187447 Qualified in New York County Commission Expires May 19, 2012

IN WITNESS WHEREOF, I have hereunto set my hand on this  $\frac{7}{2}$  day of  $\frac{2}{2}$ , 2011.

MARK S. LEUNG

WITNESS BY:

Signature

Name

**PATENT** 

REEL: 048091 FRAME: 0910

IN WITNESS WHEREOF, I have hereunto set my hand on this 5 day of January 2011.

WITNESS BY:

Signature

GANN Name

State of California		
County of San Lais Obispo		
On January 25, 2012 before me, Cody L	Jakelpleck, Notary Public,	
personally appeared MICHAEL TUROVSKIY, who proved to me on the basis of		
satisfactory evidence to be the person(s) whose names	s(ᢏ) is/aॡ subscribed to the	
within instrument and acknowledged to me that he/she/they executed the same in		
his/her/their authorized capacity(les), 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		
that the foregoing paragraph is true and correct.		
WITNESS my hand and official seal.	Cody Winkelpleck Commission # 1949482 Commission #	
Signature (	Seal)	

IN WITNESS WHEREOF, I have hereunto set my hand on this 25 day of Vandary, 2017.

MICHAEL TURÓVSKIY

PATENT REEL: 048091 FRAME: 0912

**RECORDED: 01/18/2019**