504835730 03/23/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VINCENT KU	11/29/2011
ROBERT BEETEL	11/29/2011
ANDREW WU	11/29/2011
DENISE ZARINS	11/29/2011
MARIA G. ABOYTES	12/02/2011

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

Property Type	Number
Application Number:	15934851

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.

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Email: rs.vasciplegal@medtronic.com

Correspondent Name: MEDTRONIC VASCULAR, INC. IP LEGAL DEPART

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ATTORNEY DOCKET NUMBER:	P0041121.USC90	
NAME OF SUBMITTER:	JEFFIE A. KOPCZYNSKI	
SIGNATURE:	/Jeffie A. Kopczynski/	
DATE SIGNED:	03/23/2018	

Total Attachments: 6

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PATENT REEL: 045335 FRAME: 0898

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PATENT REEL: 045335 FRAME: 0899

ASSIGNMENT

WHEREAS, we, VINCENT KU; ROBERT J. BEETEL; ANDREW WU; DENISE ZARINS; and MARIA G. ABOYTES, are the inventors of "CATHETER APPARATUSES HAVING MULTI-ELECTRODE ARRAYS FOR RENAL NEUROMODULATION AND ASSOCIATED SYSTEMS AND METHODS", filed on October 25, 2011, U.S. Application, Serial No. 13/281,360 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>Luxembourg</u>, 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.

State of California			
County of Sasta CLARA			
On Moransez 29, 201) before me, CATIM M. WORK , Notary Public,			
personally appeared VINCENT KU, 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. CATHY M. WONG COMM. #1888578 Notary Public · California Santa Clara County My Comm. Expires Jun. 4, 2014			
Signature (Seal)			

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

State of <u>California</u>		
County of Sagara		
On Movember 29, 201) before me, CATH M. WORLY , Notary Public,		
personally appeared ROBERT BEETEL, 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. CATHY M. WONG COMM. #1888578 Notary Public · California Santa Clara County My Comm. Expires Jun. 4, 2014		
Signature (Seal)		

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

ROBERT BEETEL

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

State of <u>California</u>			
County of Santa CLARA			
On November 29, 2011 before me, CA	THY M. WOHL , Notary Public,		
personally appeared DENISE ZARINS , who p	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 exe	ecuted the same in his/her/their authorized		
capacity(ies), and that by his/her/their signatu	re(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.	CATHY M. WONG COMM. #1888578 Notary Public - California Santa Clara County Comm. Expires Jun. 4, 2014		
Signature	(Seal)		

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

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

RECORDED: 03/23/2012

IN WITNESS WHEREOF, I have hereunto set my hand on this 2 day of 0 eccu, 2011.

MARIA G. ABOYTES