504188732 01/20/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4235407

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES D. REINKE	01/20/2017
JAMES K. CARNEY	01/20/2017
CAN CINBIS	01/20/2017
RICHARD J. O'BRIEN	01/20/2017
BUSHAN PURUSHOTHAMAN	01/20/2017

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY N.E.
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15411360

CORRESPONDENCE DATA

Fax Number: (763)505-2500

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: 763-505-5000

Email: medtronic_crdm_docketing@cardinal-ip.com

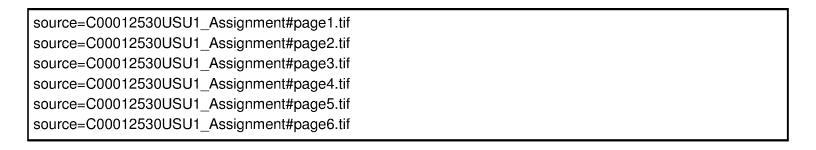
MEDTRONIC, INC. (CRDM) **Correspondent Name:** 710 MEDTRONIC PARKWAY NE Address Line 1: Address Line 2: MS: LC340 LEGAL PATENTS

MINNEAPOLIS, MINNESOTA 55432-9924 Address Line 4:

Total Attachments, C		
DATE SIGNED:	01/20/2017	
SIGNATURE:	/Meghan D. Huso/	
NAME OF SUBMITTER:	MEGHAN D. HUSO	
ATTORNEY DOCKET NUMBER:	C00012530.USU1/1111-513	

Total Attachments: 6

PATENT REEL: 041027 FRAME: 0427



PATENT REEL: 041027 FRAME: 0428

Attorney Docket No.: C00012530.USU1/1111-513US01

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

IMPLANTED ELECTRODE CONFIGURATION FOR PHYSIOLOGICAL SENSING AND TISSUE CONDUCTANCE COMMUNICATION
for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
for which an application for a U.S. Provisional Application No. ; was filed on ;
for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
which application is identified as PCT International Patent Application No.; filed;
Whereas, <u>Medtronic</u> , Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principle place of business at <u>710 Medtronic Parkway N.E.</u> , <u>Minneapolis</u> , <u>Minnesota 55432-5604</u> , hereinafte referred to as "Corporation," 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 therefore;

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 Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto 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 therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), 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 Corporation for its own use and benefit and use and benefit 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 me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, 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 Corporation, 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

Assignment

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REEL: 041027 FRAME: 0429

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 Corporation, its successors or assigns, but at Corporation's expense.

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial [if any]): James D.	Family Name or Surname (last name): Reinke		
Inventor's Signature: Acres D. Raide	Date: VZ > /	Date: 1/20/2017	
City and State:	Country:	Citizenship:	
Maple Grove, Minnesota	USA	USA	
STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of			

	Given Name (first and middle initial [if any]): James K.	Family N Carney	ame or Surname (last name)	
	Inventor's Signature:		Date: 1/20/20	17
SICC	Residence (City and State): Falcon Heights, Minnesota		Country: USA	Citizenship: USA
· ·	STATE OF MINNESOTA)) ss.			
	On this 2014 day of			lly appeared the above-named
	aforesaid.	instrumen	r, as said person's free act and	deed, on the day and year
	(Seal) MADONNA M. SCHROED Notary Public State of Minnesota My Commission Expire January 31, 2020	Processor Commission of Commis	Notary Public	TOWN CONTROL OF THE PARTY OF TH

Assignment

Page 3 of 6 Attorney Docket No.: C00012530.USU1/1111-513US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

	imily Name or Surname (last inbis	name):		
Inventor's Signature:	Date: 01/.	20/2017		
Residence (City and State):	Country:	Citizenship:		
Salt Lake City, Utah	USA	USA		
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this				

Given Name (first and middle initial [if any]): Richard J.	Family Name or Surname (last name): O'Brien			
Inventor's Signature:	Date:	, ~~,		
Residence (City and State): Hugo, Minnesota	Country: USA	Citizenship: USA		
STATE OF MINNESOTA) STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of				

Given Name (first and middle initial [if any]): Bushan	Family Name or Surname (last name): Purushothaman		
Inventor's Signature:	Date: 01/20 /20	,17	
Residence (City and State):	Country:	Citizenship:	
Plymouth, Minnesota	USA	USA	
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this D day of D duby for the form of the	, 2017, before me person pregoing instrument, as said person's fre	nally appeared the above-named see act and deed, on the day and year	
(Seal) MADONNA M. SCHROEDER Notary Public State of Minnesota My Commission Expires January 31, 2020	Norary Public		

RECORDED: 01/20/2017