

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4603970

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
STEVEN M. GOETZ	01/02/2007
RICHARD T. STONE	12/21/2006
WARREN W. BALL	12/21/2006
CARL D. WAHLSTRAND	12/21/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MEDTRONIC, INC.
<b>Street Address:</b>	710 MEDTRONIC PARKWAY N.E.
<b>City:</b>	MINNEAPOLIS
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55432
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15710571
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(651)735-1102
<i>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.</i>	
<b>Phone:</b>	651-735-1100
<b>Email:</b>	pairedocketing@ssiplaw.com
<b>Correspondent Name:</b>	SHUMAKER & SIEFFERT , P.A
<b>Address Line 1:</b>	1625 RADIO DRIVE , SUITE 100
<b>Address Line 4:</b>	WOODBURY, MINNESOTA 55125
<b>ATTORNEY DOCKET NUMBER:</b>	1023-547US11/P25459.USC36
<b>NAME OF SUBMITTER:</b>	JENNIFER DALLMAN
<b>SIGNATURE:</b>	/Jennifer Dallman/
<b>DATE SIGNED:</b>	09/20/2017
<b>Total Attachments: 3</b>	
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ASSIGNMENT

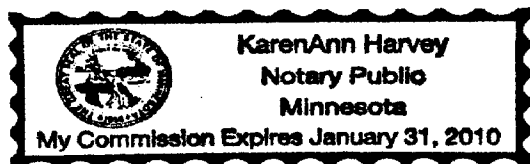
For valuable consideration, we, Steven M Goetz of 4650 – 586th Place North, Brooklyn Center, Minnesota 55429; Richard T. Stone of 630 Huron Blvd. S.E., Minneapolis, Minnesota 55414; Warren W. Ball of 12764 Killdeer St. N.W., Coon Rapids, Minnesota 55448; and Carl D. Wahlstrand of 1 Bluebird Lane, St. Paul, Minnesota 55127, hereby assign to: Medtronic, Inc., having a place of business at: 710 Medtronic Parkway, LC-340, Minneapolis, MN 55432 and its successors and assigns (collectively hereinafter called “the Assignee”) the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled PROGRAMMING INTERFACE WITH A CROSS-SECTIONAL VIEW OF A STIMULATION LEAD WITH COMPLEX ELECTRODE ARRAY GEOMETRY, filed October 31, 2006, and assigned U.S. Serial Number 11/591,188; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors’ certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 02 Jan 2007

Steven M. Goetz  
Steven M. Goetz

State of MN )  
 ) ss:  
County of Anoka )

On this 2 day of January, 2007, before me, KarenAnn Harvey  
Notary Public, personally appeared Steven M. Goetz personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person(s) whose name is/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(s), or the entity upon behalf of which the person(s)  
acted, executed the instrument.



WITNESS my hand and official seal.

KarenAnn Harvey  
Signature of Notary Public  
My Commission Expires: Jan 31, 2010

Date: December 21, 2006

Richard T. Stone  
Richard T. Stone

State of Minnesota )  
 ) ss:  
County of Anoka )

On this 21st day of December, 2006, before me, Helen M. Terway  
Notary Public, personally appeared Richard T. Stone personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person(s) whose name is/~~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(s), or the entity upon behalf of which the person(s)  
acted, executed the instrument.

WITNESS my hand and official seal.



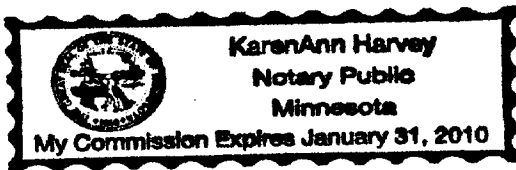
Helen M. Terway  
Signature of Notary Public  
My Commission Expires: 01/31/2007

Date: 12-21-06

Warren W. Ball  
Warren W. Ball

State of MN )  
 ) ss:  
County of Anoka )

On this 21st day of December, 2006, before me, KarenAnn Harvey, Notary Public, personally appeared Warren W. Ball personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/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(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

KarenAnn Harvey  
Signature of Notary Public  
My Commission Expires: January 31, 2010

Date: 21 DEC 06

Carl D. Wahlstrand  
Carl D. Wahlstrand

State of Minnesota )  
 ) ss:  
County of Anoka )

On this 21st day of December, 2006, before me, Helen M. Terway, Notary Public, personally appeared Carl D. Wahlstrand personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/~~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(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Helen M. Terway  
Signature of Notary Public  
My Commission Expires: 01/31/2007