

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Paul W. Wacnik	04/27/2012
Lisa M. Johanek	04/25/2012
RECEIVING PARTY DATA	
Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13458389
CORRESPONDENCE DATA	
Fax Number:	(651)735-1102
Phone:	651-735-1100
Email:	pairedocketing@ssiipaw.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	SHUMAKER & SIEFFERT, P.A
Address Line 1:	1625 RADIO DRIVE, SUITE 300
Address Line 4:	WOODBURY, MINNESOTA 55125
ATTORNEY DOCKET NUMBER:	1123-084US01/P39290.USU1
NAME OF SUBMITTER:	Shirley A. Betlach
Total Attachments: 6 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif	

OP \$40.00 13458389

ASSIGNMENT

For valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/We, Paul W. Wacnik of 1151 North Negley Ave., Pittsburgh, PA 15206 and Lisa M. Johanek of 5934 Otter View Circle, White Bear Lake, MN 55110 (collectively hereinafter called "the Assignor(s)"), have sold, assigned, transferred and set over, and hereby do sell, assign, transfer and set over to Medtronic, Inc, a corporation existing under the laws of the State of Minnesota and having a place of business at: 710 Medtronic Parkway N.E., Minneapolis, MN 55432, and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in and to the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled RAMPING PARAMETER VALUES FOR ELECTRICAL STIMULATION THERAPY, filed herewith; this assignment including all right, title and interest in said application, any provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other applications disclosing any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and including any rights, including the right to claim priority based on the filing date of any of these applications 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, the same to be held and enjoyed by the Assignee for its own use and benefit and the use and benefit of its successors and assigns to the full end of the term for which any patents may be granted on such applications, as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this assignment and sale not been made, including the right to enforce such patents as fully and entirely as the same would have been held and enjoyed by the Assignor(s) if this assignment had not been made, together with all claims by the Assignor(s) for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for the Assignee's own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives, and the Assignor(s) 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 the Assignor(s) agree for ourselves and our respective heirs, legal

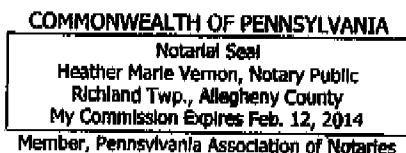
representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. For the consideration noted above, the Assignor(s) materially represent to the Assignee, and its successors and assigns, that at the time of the execution and delivery of this assignment, the Assignor(s) are the sole lawful owners of the entire right, title and interest in and to the inventions, improvements, applications and patents above mentioned, and that the same are unencumbered, and that the Assignor(s) have good right and lawful authority to assign, sell and convey the same in the manner herein set forth. For the consideration noted above, the Assignor(s) hereby individually covenant and agree to and with the Assignee, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns 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 or extension of such patents is lawful and desirable, the Assignor(s), or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required for the procurement of valid patents for said inventions, or for the reissue or extension of the same, without charge to the Assignee, its successors or assigns, but at the Assignee's expense. The Assignor(s) do hereby authorize and request the Commissioner of Patents of the United States Patent and Trademark Office to issue any and all patents which may be granted upon any of the said applications, to the Assignee, as the assignee of the entire right, title, and interest therein.

Date: 4-27-12

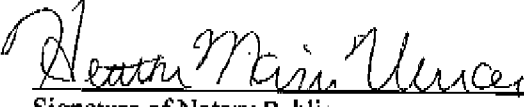
  
\_\_\_\_\_  
Paul W. Wacnik

State of Pennsylvania )  
  ) ss:  
County of Allegheny )

On this 27th day of April, 20 12, before me, Heather Marie Vernon  
Notary Public, personally appeared Paul W. Wacnik 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 within the 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.

  
\_\_\_\_\_  
Signature of Notary Public  
My Commission Expires: 2/12/14

Date: \_\_\_\_\_

\_\_\_\_\_  
Lisa M. Johaneck

State of \_\_\_\_\_ )  
  ) ss:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
Notary Public, personally appeared Lisa M. Johaneck 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 within the 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.

\_\_\_\_\_  
Signature of Notary Public  
My Commission Expires: \_\_\_\_\_

ASSIGNMENT

For valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/We, Paul W. Wacnik of 1151 North Negley Ave., Pittsburgh, PA 15206 and Lisa M. Johaneck of 5934 Otter View Circle, White Bear Lake, MN 55110 (collectively hereinafter called "the Assignor(s)"), have sold, assigned, transferred and set over, and hereby do sell, assign, transfer and set over to Medtronic, Inc, a corporation existing under the laws of the State of Minnesota and having a place of business at: 710 Medtronic Parkway N.E., Minneapolis, MN 55432, and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in and to the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled RAMPING PARAMETER VALUES FOR ELECTRICAL STIMULATION THERAPY, filed herewith; this assignment including all right, title and interest in said application, any provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other applications disclosing any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and including any rights, including the right to claim priority based on the filing date of any of these applications 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, the same to be held and enjoyed by the Assignee for its own use and benefit and the use and benefit of its successors and assigns to the full end of the term for which any patents may be granted on such applications, as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this assignment and sale not been made, including the right to enforce such patents as fully and entirely as the same would have been held and enjoyed by the Assignor(s) if this assignment had not been made, together with all claims by the Assignor(s) for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for the Assignee's own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives, and the Assignor(s) 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 the Assignor(s) 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. For the consideration noted above, the Assignor(s) materially represent to the Assignee, and its successors and assigns, that at the time of the execution and delivery of this assignment, the Assignor(s) are the sole lawful owners of the entire right, title and interest in and to the inventions, improvements, applications and patents above mentioned, and that the same are unencumbered, and that the Assignor(s) have good right and lawful authority to assign, sell and convey the same in the manner herein set forth. For the consideration noted above, the Assignor(s) hereby individually covenant and agree to and with the Assignee, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns 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 or extension of such patents is lawful and desirable, the Assignor(s), or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required for the procurement of valid patents for said inventions, or for the reissue or extension of the same, without charge to the Assignee, its successors or assigns, but at the Assignee's expense. The Assignor(s) do hereby authorize and request the Commissioner of Patents of the United States Patent and Trademark Office to issue any and all patents which may be granted upon any of the said applications, to the Assignee, as the assignee of the entire right, title, and interest therein.

Date: \_\_\_\_\_

Paul W. Wacnik

State of )  
 ) ss:  
County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
Notary Public, personally appeared Paul W. Wacnik 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 within the 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.

Signature of Notary Public  
My Commission Expires:

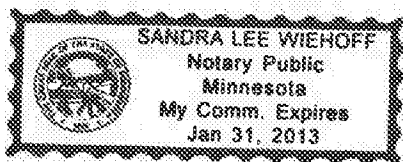
Date: 25 April 2012

**Lisa M. Johane**

State of Minnesota )  
County of Anoka ) ss:

On this 25 day of April, 2012, before me, Sandra Lee Wichoff, Notary Public, personally appeared Lisa M. Johanek 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 within the 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.



Signature of Notary Public  
My Commission Expires: 1-31-13