

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Nikhil Bhushan</td><td>06/04/2007</td></tr><tr><td>Thomas R. Skwarek</td><td>05/14/2007</td></tr><tr><td>Graham Spall</td><td>05/14/2007</td></tr><tr><td>Keith Bosacker</td><td>05/14/2007</td></tr></tbody></table>		Name	Execution Date	Nikhil Bhushan	06/04/2007	Thomas R. Skwarek	05/14/2007	Graham Spall	05/14/2007	Keith Bosacker	05/14/2007
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Medtronic, Inc.</td></tr><tr><td>Street Address:</td><td>710 Medtronic Parkway</td></tr><tr><td>City:</td><td>Minneapolis</td></tr><tr><td>State/Country:</td><td>MINNESOTA</td></tr><tr><td>Postal Code:</td><td>55432</td></tr></table>		Name:	Medtronic, Inc.	Street Address:	710 Medtronic Parkway	City:	Minneapolis	State/Country:	MINNESOTA	Postal Code:	55432
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PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11694526</td></tr></tbody></table>		Property Type	Number	Application Number:	11694526						
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Application Number:	11694526										
CORRESPONDENCE DATA											
Fax Number: (651)735-1102 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 651-735-1100											
Email: sorensen@ssiplaw.com											
Correspondent Name: Michael J. Ostrom											
Address Line 1: 1625 Radio Drive											
Address Line 4: Woodbury, MINNESOTA 55125											
ATTORNEY DOCKET NUMBER:	1023-639US01										
NAME OF SUBMITTER:	Michael J. Ostrom										
Total Attachments: 6 source=Assignment#page1.tif											

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PATENT  
REEL: 019379 FRAME: 0941

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source=Assignment#page6.tif

Jun. 4. 2007 4:31PM

No. 0141 P. 2

Attorney Docket No.: 1023-639US01


ASSIGNMENT

For valuable consideration, we, Nikhil Bhushan of 6340 Urbandale Lane N., Maple Grove, Minnesota 55311; Thomas R. Skwarek of 1224 Woodcrest Ave., Shoreview, Minnesota 55126; Graham Spall of 1812 E. Medicine Lake Blvd., Plymouth, Minnesota 55441 and Keith Bosacker of 2551 38<sup>th</sup> Avenue N.E. Apt. 447, St. Anthony, Minnesota 55421, hereby assign to: Medtronic, Inc., having a place of business at: 710 Medtronic Parkway, 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 IMPEDANCE COMPUTATION FOR ABLATION THERAPY, filed March 30, 2007, and assigned U.S. Serial Number 11/694,526; 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: JUNE 4, 2007
  
 Nikhil Bhushan
State of MinnesotaCounty of Hennepin ) ss:

On this 4<sup>th</sup> day of June, 2007, before me, Kirsten L. Brown, Notary Public, personally appeared Nikhil Bhushan 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: 1/24/2010

Jun. 4. 2007 4:31PM

No. 0141 P. 3

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

Thomas R. Skwarek

State of )  
          ) ss:  
County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_  
Notary Public, personally appeared Nikhil Bhushan 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: \_\_\_\_\_

Graham Spall

State of )  
          ) ss:  
County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_  
Notary Public, personally appeared Nikhil Bhushan 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:

Jun. 4. 2007 4:32PM

No. 0141 P. 4

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

\_\_\_\_\_  
Keith BosackerState of )  
          ) ss:  
County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
Notary Public, personally appeared Nikhil Bhushan 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  
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WITNESS my hand and official seal.

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Signature of Notary Public  
My Commission Expires:

Attorney Docket No.: 1023-639US01

ASSIGNMENT

For valuable consideration, we, Nikhil Bhushan of 6340 Urbandale Lane N., Maple Grove, Minnesota 55311; Thomas R. Skwarek of 1224 Woodcrest Ave., Shoreview, Minnesota 55126; Graham Spall of 1812 E. Medicine Lake Blvd., Plymouth, Minnesota 55441 and Keith Bosacker of 2551 38<sup>th</sup> Avenue N.E. Apt. 447, St. Anthony, Minnesota 55421, hereby assign to: Medtronic, Inc., having a place of business at: 710 Medtronic Parkway, 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 IMPEDANCE COMPUTATION FOR ABLATION THERAPY, filed March 30, 2007, and assigned U.S. Serial Number 11/694,526; 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: \_\_\_\_\_

Nikhil Bhushan

State of )  
 ) ss:  
 County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_, Notary Public, personally appeared Nikhil Bhushan 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:

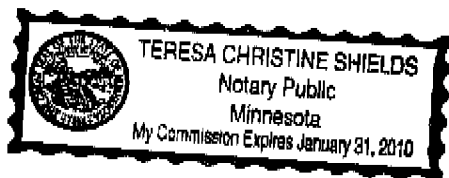
**PATENT**  
**REEL: 019379 FRAME: 0946**

Date: 05/14/2007

Thomas R. Skwarek  
 Thomas R. Skwarek

State of Minnesota  
 ) ss:  
 County of Anoka

On this 14th day of May, 2007, before me, Teresa Shields  
 Notary Public, personally appeared Nikhil Bhushan 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.

Teresa Christine Shields  
 Signature of Notary Public  
 My Commission Expires:

Date: 5/14/07

Graham Spall  
 Graham Spall

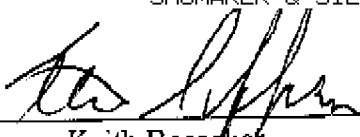
State of Minnesota  
 ) ss:  
 County of Anoka

On this 14th day of May, 2007, before me, Teresa Shields  
 Notary Public, personally appeared Nikhil Bhushan 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.



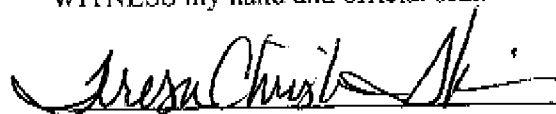
WITNESS my hand and official seal.

Teresa Christine Shields  
 Signature of Notary Public  
 My Commission Expires:

Date: 5/14/2007  
\_\_\_\_\_  
Keith BosackerState of Minnesota,  
County of Anoka ) ss:

On this 14th day of May, 2007, before me, Teresa Christine Shields  
Notary Public, personally appeared Nikhil Bhushan 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  
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acted, executed the instrument.

WITNESS my hand and official seal.

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

PATENT

RECORDED: 06/05/2007

REEL: 019379 FRAME: 0948