

## PATENT ASSIGNMENT

Electronic Version v1.1

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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>Rajan Prakash</td> <td>11/30/2011</td> </tr> <tr> <td>Rodolphe Katra</td> <td>11/29/2011</td> </tr> </tbody> </table>		Name	Execution Date	Rajan Prakash	11/30/2011	Rodolphe Katra	11/29/2011
Name	Execution Date						
Rajan Prakash	11/30/2011						
Rodolphe Katra	11/29/2011						
RECEIVING PARTY DATA							
Name:	Medtronic, Inc.						
Street Address:	710 Medtronic Parkway						
Internal Address:	Mail Stop LC340						
City:	Minneapolis						
State/Country:	MINNESOTA						
Postal Code:	55432						
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>13307918</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13307918		
Property Type	Number						
Application Number:	13307918						
CORRESPONDENCE DATA							
Fax Number:	(763)505-2530						
Phone:	(763) 526-0932						
Email:	susan.m.nienaber@medtronic.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:	Carol F. Barry						
Address Line 1:	710 Medtronic Parkway						
Address Line 2:	Mail Stop LC340						
Address Line 4:	Minneapolis, MINNESOTA 55432						
ATTORNEY DOCKET NUMBER:	P0024146.USU5						
NAME OF SUBMITTER:	Susan M. Nienaber						
Total Attachments: 3 source=EFS_executed_assign#page1.tif source=EFS_executed_assign#page2.tif source=EFS_executed_assign#page3.tif							

CH \$40.00 13307918

ASSIGNMENT OF APPLICATION

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

<b>DETECTION OF RELAXATION ABNORMALITY IN HEART TISSUE</b>
--

- for which an application for a United States Patent is being filed contemporaneously herewith;
- for which an application for a United States Patent identified as U.S. Patent Application No. **13/307,918**; was filed on **November 30, 2011**;
- for which above application claims priority to U.S. Provisional Patent Application No. **61/418,116**; filed on **November 30, 2010**;
- which application is identified as PCT International Patent Application No. ; filed ;

Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafter 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 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, 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 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.

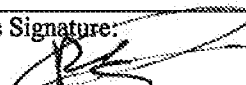

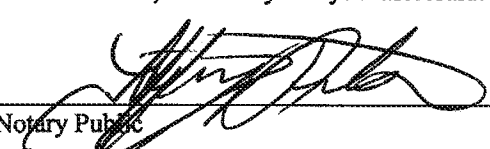
Given Name (first and middle initial [if any]): <b>Rajan</b>		Family Name or Surname (last name): <b>Prakash</b>	
Inventor's Signature: <i>P. Rajan</i>		Date: <b>30<sup>th</sup> Nov 2011</b>	
Residence (City and State): Chennai		Country: India	Citizenship: India
Witness Signature <i>Shruti Wani</i>		Witness Signature <i>Shashwat Ghetwar</i>	
Witness Printed Name <b>Shruti Wani</b>		Witness Printed Name <b>SHASHWAT GHETWAR</b>	

Given Name (first and middle initial [if any]): <b>Rodolphe</b>		Family Name or Surname (last name): <b>Katra</b>	
Inventor's Signature:		Date:	
Residence (City and State): Blaine, Minnesota		Country: USA	Citizenship: US
STATE OF MINNESOTA ) ) ss. COUNTY OF RAMSEY  )			
On this _____ day of _____, _____, before me personally appeared the above named, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		Notary Public	

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]): <b>Rajan</b>		Family Name or Surname (last name): <b>Prakash</b>	
Inventor's Signature:		Date:	
Residence (City and State): Chennai		Country: India	Citizenship: India
_____ Witness Signature		_____ Witness Signature	
_____ Witness Printed Name		_____ Witness Printed Name	

Given Name (first and middle initial [if any]): <b>Rodolphe</b>		Family Name or Surname (last name): <b>Katra</b>	
Inventor's Signature: 		Date: 11/29/11	
Residence (City and State): Blaine, Minnesota		Country: USA	Citizenship: US
STATE OF MINNESOTA ) ) ss. COUNTY OF RAMSEY )			
On this <u>29<sup>th</sup></u> day of <u>November</u> , <u>2011</u> , before me personally appeared the above-named, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)			 _____ Notary Public