PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Andrew J. Ries	11/30/2011
Craig L. Schmidt	11/30/2011

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	Туре	Number
Application Number:		13308198

CORRESPONDENCE DATA

Fax Number: (651)735-1102 Phone: 763 514 4000

Email: pairdocketing@ssiplaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Correspondent Name: Medtronic, Inc.

Address Line 1: 710 Medtronic Parkway

Address Line 4: Minneapolis, MINNESOTA 55432

ATTORNEY DOCKET NUMBER: P0040465.USU1/1111-339

NAME OF SUBMITTER: Barbara A. Geisthardt

Total Attachments: 4

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> PATENT REEL: 027301 FRAME: 0561

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Attorney Docket No.: P0040465.USU1/1111-339US01

ASSIGNMENT OF APPLICATION

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

	RECOMMENDED REPLACEMENT TIME BASED ON USER SELECTION	-
\boxtimes	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. ; was filed on	
	;	
	which application is identified as PCT International Patent Application No.; filed;	
hav	Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and ing a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5640, hereinaft	

having a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5640, 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, including any provisional application disclosing 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.

Assignment

Page 1 of 2 Attorney Docket No.: P0040465.USU1/1111-339US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

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]):	Family Name or Surname (last name):		
Andrew J.	Ries		
Inventor's Signature:	Date: 11/30/11		
Residence (City and State):	Country:	Citizenship:	
Lino Lakes, Minnesota	USA	USA	
STATE OF MINNESOTA) ss.			
COUNTY OF REMSEL)			
On this <u>ROM</u> day of <u>November</u>	be	fore me personally	
appeared the above-named Andrew J. Ries, and who executed the foregoing instrument, as said person's			
free act and deed, on the day and year aforesaid.			
(Seal) CARRIE M. ARCAND Notary Public-Minnesota My Commission Expires Jan 31, 2015 Notary Public			
Given Name (first and middle initial [if any]):	Family Name or Surname (la Schmidt	st name):	
Craig L.	1		
Inventor's Signature:	Date:		
City and State:	Country:	Citizenship:	
Eagan, Minnesota	USA	USA	
STATE OF MINNESOTA)) ss. COUNTY OF)			
On this day of appeared the above-named Craig L. Schmidt, and v person's free act and deed, on the day and year afor	who executed the foregoin	fore me personally g instrument, as said	
(Seal)			
	Notary Public		

Attorney Docket No.: P0040465.USU1/1111-339US01

ASSIGNMENT OF APPLICATION

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

RECOMMENDED REPLACEMENT TIME BASED ON USER SELECTION
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. ; was filed on
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 55432-5640, 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, including any provisional application disclosing 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.

Assignment

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Page 1 of 2 Attorney Docket No.: P0040465.USU1/1111-339US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

PATENT REEL: 027301 FRAME: 0564 In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Family Name or Surname (la	ist name):
Ries	
Date:	
Country: USA	Citizenship: USA
, be o executed the foregoing	fore me personally instrument, as said person's
Notary Public	

Schmidt	ist name):
Date: 30-Ndv -	2011
Country: USA	Citizenship: USA
, 201 _, be	
	Country: USA Jesus of executed the foregoing Notary Public Family Name or Surname (lass Schmidt Date: 30-Nov- Country: USA

Assignment

RECORDED: 11/30/2011

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PATENT REEL: 027301 FRAME: 0565