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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
EFFECTIVE DATE:	12/02/2005

CONVEYING PARTY DATA

Name	Execution Date	
Mr. Rajesh V. lyer	12/02/2005	
Mr. Ryan J. Jensen	12/02/2005	
Mr. Curtis E. Burgardt	12/02/2005	
Ms. Susan A. Tetterner	12/02/2005	
Mr. Daniel J. Koch	12/02/2005	
Mr. Simon E. Goldman	12/02/2005	

RECEIVING PARTY DATA

Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway
Internal Address:	LC-340
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11235944

CORRESPONDENCE DATA

Fax Number: (763)514-6982

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 763.514.4673

Email: molly.a.mcclellan@medtronic.com

Correspondent Name: Carol F. Barry

Address Line 1: 710 Medtronic Parkway

Address Line 2: LC-340

500134909

Address Line 4: Minneapolis, MINNESOTA 55432

PATENT

REEL: 018057 FRAME: 0067

- \$40.00 -

ATTORNEY DOCKET NUMBER:	P22029.00
NAME OF SUBMITTER:	Carol F. Barry
Total Attachments: 7 source=ASSIGNMENT_executed#page1.tif source=ASSIGNMENT_executed#page2.tif source=ASSIGNMENT_executed#page3.tif source=ASSIGNMENT_executed#page4.tif source=ASSIGNMENT_executed#page5.tif source=ASSIGNMENT_executed#page6.tif source=ASSIGNMENT_executed#page7.tif	

PATENT REEL: 018057 FRAME: 0068 ATTORNEY DOCKET: P22029.00

ASSIGNMENT

WHEREAS, WE, <u>Rajesh V. iyer, Rvan J. Jensen, Curtis E. Burgardt, Susan A. Tettemer, Daniel J. Koch and Simon E. Goldman</u>, are the inventors of <u>DETERMINATION OF EQUIVALENT SERIES PESISTANCE</u>, for which an application for a United States Patent was filed on <u>September 27, 2005</u>, under Serial No. 11/235,944; and

WHEREAS, <u>MEDTRONIC</u>, INC. a corporation organized and existing under the laws of the <u>State of Minnesota</u> and having a principal place of business at <u>710 Medtronic Parkway N.E. Minneapolis</u>, <u>Minnesota 55432-5640</u>, 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 therefor;

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 therefor 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 behoof and use and behoof 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, and also hereby authorize Corporation and its employees to fill in the serial number and filing date above after this document has been executed;

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 hereby grant Corporation the right to fill in the serial number and filling date in this document upon their receipt;

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 paths, 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.

ASSIGNMENT Fage 1 of 7 P22029 oc I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this Grand day of December 2005.

Rajesh V. lyer

STATE OF MINNESOTA

COUNTY OF COUNT

DEBRA SCHMIDT Notory Public State of Minnesota My Commission Expires January 31, 2018

> ASSIGNMENT Page 2 of 7 P22020 00

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this DZ day of 2005.

STATE OF MINNESOTA

COUNTY OF COU

ASSIGNMENT Page 3 of 7 Pago20 oo I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

December 2008.

STATE OF MINNESOTA

COUNTY OF HENNEDIN

On this 2 day of DECENNEY, 2005, before me personally appeared Curtis E. Burgardt, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

DEBRA SCHMIDT Notary Public State of Minnesota My Commission Expires January 31, 2018 Cha Bohmide

ASS GNMENT Page 4 of 7

My Commission Expires January 31, 2010

> ASS:GNMEMT Page 5 of 7 P22029 00

I hereby request the Honorable Commissioner of Pate Corporation in accordance with this instrument.	
IN WITNESS WHEREOF, I have hereunic 2005.	o set my hand on this day of
	Daniel J. Koch
STATE OF MINNESOTA	\$ *
COUNTY OF MENDEDIN	
On this day of	2005, before me personally appeared bed in and who executed the foregoing instrument when free act and deed.
IN WITNESS WHEREOF, I have hereunto affithe day and year above written.	fixed my official signature with the seal of my office,
	1000 Bas Qhowate
DEBRA SCHMIDT Notary Public State of Minnesota My Commission Expires January 31, 2010	Notary Public

ASSIGNMENT Page 5 of 7 P22025 00

I hereby request the Honorable Commissioner of	Patents and	Trademarks to	issue the Letters	Patent to
Compration in accordance with this instrument.			A	

IN WITNESS WHEREOF, I have hereunto set my hand on this 2 1/4 2 2005.

day of

Şimon E. Goldman

STATE OF MINNESOTA

COUNTY OF HEADEDUM

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

DEBRA SCHMIDT Notally Public State of Minnesona My Commission Expires Janually 31, 2010

Notary Public

ASSIGNMENT Page 7 t/4 7 P22009.06

PATENT REEL: 018057 FRAME: 0075

RECORDED: 08/04/2006