Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Aleksandre T. Sambelashvili	03/30/2009
Thomas J. Mullen	03/30/2009
Berthold Stegemann	03/27/2009

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:	12363025

CORRESPONDENCE DATA

Fax Number: (651)735-1102

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

Email: thom@ssiplaw.com

Correspondent Name: Shumaker & Sieffert, P.A.

Address Line 1: 1625 Radio Drive, Suite 300

Address Line 4: Woodbury, MINNESOTA 55125

ATTORNEY DOCKET NUMBER: 1111-120US01

NAME OF SUBMITTER: Jessica H. Kwak

Total Attachments: 8

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PATENT

ASSIGNMENT 224C ISCT

WHEREAS, WE, Aleksandre T. Sambelashvili of 17601 70th Pl. N., Maple Grove, Minnesota 55311, Thomas J. Mullen of 2033–135th Lane NE, Ham Lake, Minnesota 55304 and Berthold Stegemann of Brunssumstrasse 21a, Aachen 52074, Germany, are the inventors of FUSION PACING INTERVAL DETERMINATION, for which an application for a United States Patent was filed on January 30, 2009, under Serial No. 12/363,025; and

WHEREAS, MEDTRONIC, INC., a corporation organized and existing under the laws of the State of Minnesota and having a principal 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 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 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, 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, 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.

ASSIGNMENT Page 1 of 4 <u>P0025879.00/1111-120US01</u>

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 day of, 2009.
Aleksandre T. Sambelashvili
STATE OF MINNESOTA
COUNTY OF washington
On this day of
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.
BETH M. LINDBLOM Notary Public-State of Minnesota My Commission Expires January 31, 2012

ASSIGNMENT Page 2 of 4 P0025879.00/1111-120US01

I hereby request the Honorable Commissioner of Patent to Corporation in accordance with this instru	f Patents and Trademarks to issue the Lettersument.
IN WITNESS WHEREOF, I have hereunto	o set my hand on this3C day of
	Tan Wellen Thomas J. Mullen
STATE OF MINNESOTA	
COUNTY OF Washington	
On this <u>30</u> day of <u>March</u> appeared Thomas J. Mullen, to me known to be t foregoing instrument and acknowledged that s/he deed.	, 2009, before me personally the person described in and who executed the e executed the same as his/her free act and
IN WITNESS WHEREOF, I have hereunto office, the day and year above written.	affixed my official signature with the seal of my
BETH M. LINDBLOM Notary Public-State of Minnesote My Commission Expires January 31, 2012	Both M. Lindborn Notary Public

ASSIGNMENT Page 3 of 4 P0025879.00/1111-120US01

I hereby request the Honorable Commission Letters Patent to Corporation in accordance with this	oner of Patents and Trademarks to issue the s instrument.
IN WITNESS WHEREOF, I have hereunto, 2009.	set my hand on this day of
	Berthold Stegemann
On this day ofappeared, Berthold Stegemann, to me known to be foregoing instrument and acknowledged that s/he deed.	, 2009, before me personally the person described in and who executed the executed the same as his/her free act and
	Witness Signature
	Printed Name
On this day ofappeared, Berthold Stegemann, to me known to be foregoing instrument and acknowledged that s/he deed.	, 2009, before me personally the person described in and who executed the executed the same as his/her free act and
	Witness Signature
	Printed Name

ASSIGNMENT Page 4 of 4 P0025879.00/1111-120US01

ASSIGNMENT

WHEREAS, WE, <u>Aleksandre T. Sambelashvili of 17601 70th Pl. N., Maple Grove, Minnesota 55311, Thomas J. Mullen of 2033 135th Lane NE, Ham Lake, Minnesota 55304 and Berthold Stegemann of Brunssumstrasse 21a, Aachen 52074, Germany, are the inventors of <u>FUSION PACING INTERVAL DETERMINATION</u>, for which an application for a United States Patent was filed on <u>January 30, 2009</u>, under Serial No. 12/363,025; and</u>

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.</u> <u>Minneapolis, 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 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, 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, 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.

ASSIGNMENT Page 1 of 4 P0025879.00/1111-120US01

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the etters Patent to Corporation in accordance with this instrument.
IN WITNESS WHEREOF, I have hereunto set my hand on this day of, 2009.
Aleksandre T. Sambelashvili
TATE OF MINNESOTA
OUNTY OF
On this day of, 2009, before me personally opeared Aleksandre T. Sambelashvili, to me known to be the person described in and who decuted the foregoing instrument and acknowledged that s/he executed the same as his/her free ct and deed.
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my fice, the day and year above written.
Notary Public

ASSIGNMENT Page 2 of 4 P0025879.00/1111-120US01

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 day o, 2009.
Thomas J. Mullen
STATE OF MINNESOTA
COUNTY OF
On this day of, 2009, before me personally appeared Thomas J. Mullen, to me known to be the person described in control of the person described
appeared Thomas J. Mullen, 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.
Notary Public

ASSIGNMENT Page 3 of 4 P0025879.00/1111-120US01

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 day of
Berthold Stegemann
On this 27 day of Mand, 2009, before me personally appeared, Berthold Stegemann, 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.
Witness Signature
Helge Wenner Printed Name
On this
G. Gogel-Schweibold Printed Name

RECORDED: 04/03/2009

PATENT REEL: 022501 FRAME: 0066

ASSIGNMENT Page 4 of 4 P0025879.00/1111-120US01