

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>David Casavant</td><td>10/07/2008</td></tr><tr><td>Catherine R. Condie</td><td>10/06/2008</td></tr><tr><td>Jon W. Spence</td><td>10/06/2008</td></tr><tr><td>Nathan Munsterman</td><td>10/06/2008</td></tr></tbody></table>	Name	Execution Date	David Casavant	10/07/2008	Catherine R. Condie	10/06/2008	Jon W. Spence	10/06/2008	Nathan Munsterman	10/06/2008	
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David Casavant	10/07/2008										
Catherine R. Condie	10/06/2008										
Jon W. Spence	10/06/2008										
Nathan Munsterman	10/06/2008										
RECEIVING PARTY DATA											
Name:	Medtronic, Inc.										
Street Address:	710 Medtronic Parkway N.E.										
City:	Minneapolis										
State/Country:	MINNESOTA										
Postal Code:	55432-5640										
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>12183971</td></tr></tbody></table>	Property Type	Number	Application Number:	12183971							
Property Type	Number										
Application Number:	12183971										
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:	docketing@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:	P0030387.00/1111-020US01										
NAME OF SUBMITTER:	Jason D. Kelly										
Total Attachments: 10 source=Assignment#page1.tif											

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PATENT
REEL: 021681 FRAME: 0613

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ASSIGNMENT

WHEREAS, We David Casavant of 25 Puritan Road, Reading, Massachusetts 01867; Catherine R. Condie of 4187 Reiland Lane, Shoreview, Minnesota 55126; Jon W. Spence of 25582 E. Comfort Dr., Chisago City, Minnesota 55013; and Nathan Munsterman of 1207 140th Lane NW, Andover, Minnesota 55304, are the inventors of the invention entitled **PRE-QUALIFICATION OF AN ALTERNATE SENSING CONFIGURATION**, for which an application for a United States Patent was filed on July 31, 2008, under Serial No. 12/183,971; 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 or 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

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P0030387.00/1111-020US01

PATENT

REEL: 021681 FRAME: 0615

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 _____, 2008.

David Casavant

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared David Casavant, 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
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PATENT
REEL: 021681 FRAME: 0616

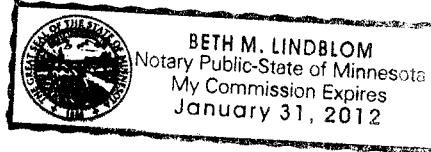
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 06 day of Oct, 2008.


Catherine R. Condie

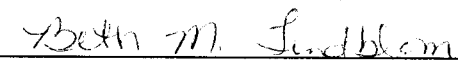
STATE OF MINNESOTA

COUNTY OF Washington



On this 6th day of October, 2008, before me personally appeared Catherine R. Condie, 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

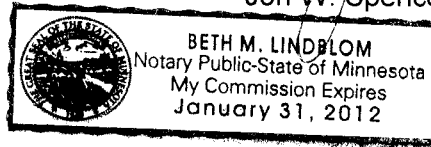
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 06 day of October, 2008.

Jon W. Spence
Jon W. Spence

STATE OF MINNESOTA

COUNTY OF Washington



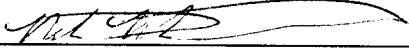
On this 6th day of October, 2008, before me personally appeared Jon W. Spence, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

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

Beth M. Lindblom
Notary Public

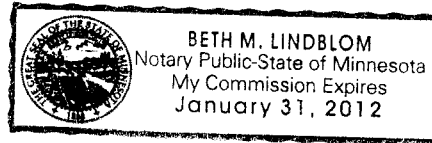
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 6th day of October, 2008.


Nathan Munsterman


STATE OF MINNESOTA

COUNTY OF Washington



On this 6th day of October, 2008, before me personally appeared Nathan Munsterman, 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

WHEREAS, We David Casavant of 25 Puritan Road, Reading, Massachusetts 01867; Catherine R. Condie of 4187 Reiland Lane, Shoreview, Minnesota 55126; Jon W. Spence of 25582 E. Comfort Dr., Chisago City, Minnesota 55013; and Nathan Munsterman of 1207 140th Lane NW, Andover, Minnesota 55304, are the inventors of the invention entitled **PRE-QUALIFICATION OF AN ALTERNATE SENSING CONFIGURATION**, for which an application for a United States Patent was filed on July 31, 2008, under Serial No. 12/183,971; 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

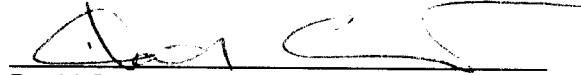
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P0030387.00/1111-020US01

PATENT**REEL: 021681 FRAME: 0620**

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 7th day of October, 2008.

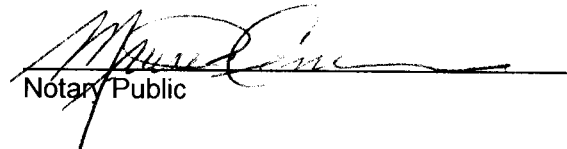

David Casavant

STATE OF ~~MINNESOTA~~ Massachusetts

COUNTY OF Middlesex

On this 7th day of October, 2008, before me personally appeared David Casavant, 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

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 _____, 2008.

Catherine R. Condie

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Catherine R. Condie, 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

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PATENT
REEL: 021681 FRAME: 0622

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 _____, 2008.

Jon W. Spence

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Jon W. Spence, 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

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PATENT
REEL: 021681 FRAME: 0623

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 _____, 2008.

Nathan Munsterman

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Nathan Munsterman, 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

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