

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
John D. Wahlstrand	12/22/2008
Timothy J. Denison	12/15/2008
Wesley A. Santa	12/16/2008
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: 2	
Property Type	Number
Application Number:	12263346
Application Number:	12263358
CORRESPONDENCE DATA	
Fax Number:	(651)367-0471
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(763) 514-4000
Email:	blancheb@gtlaw.com
Correspondent Name:	Daniel G. Chapik
Address Line 1:	710 Medtronic Parkway
Address Line 2:	Mail Stop LC340
Address Line 4:	Minneapolis, MINNESOTA 55432
ATTORNEY DOCKET NUMBER:	062032-013400
NAME OF SUBMITTER:	Cynthia A. Dixon

CH \$80.00 12263346

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REEL: 022029 FRAME: 0577

Total Attachments: 8

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PATENT

REEL: 022029 FRAME: 0578

PATENT

ASSIGNMENT

WHEREAS, We **JOHN D. WAHLSTRAND; TIMOTHY J. DENISON; and WESLEY A. SANTA**, are the inventors with residence and citizenship as indicated below, have made an invention entitled **INTERCARDIAC IMPEDANCE FOR ISCHEMIA DETECTION** that is the subject of United States Utility Application Serial Number 12/263,346, filed October 31, 2008;

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 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 filing 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 oaths, and do all acts necessary or required to be done for the procurement of

ASSIGNMENT

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P0026024.0 (062032-013400)

OC 286,271.807v1 6-20-08

PATENT

REEL: 022029 FRAME: 0579

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

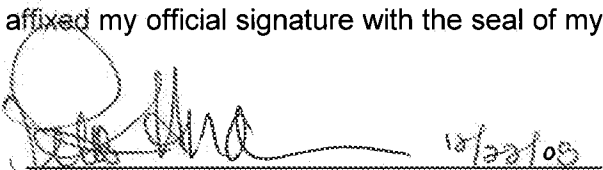
IN WITNESS WHEREOF, I have hereunto set my hand on this 22nd day of December, 2008.

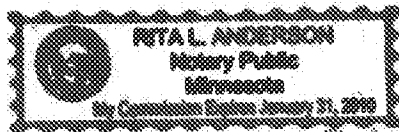

JOHN D. WAHLSTRAND

STATE OF MINNESOTA
COUNTY OF HENNEPIN *AKKA*

On this 22nd day of December, 2008, before me personally appeared John D. Wahlstrand, 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



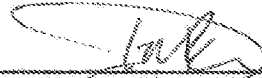
ASSIGNMENT

Page 2 of 4

P0026024.0 (062032-013400)

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 15 day of Dec, 2008.




TIMOTHY J. DENISON

STATE OF Minnesota
County of Anoka
~~COUNTY OF HENNEPIN~~

On this 15th day of December, 2008, before me personally appeared Tim Denison, 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 16 day of December, 2008.

Wesley A. Santa
WESLEY A. SANTA

STATE OF MINNESOTA

COUNTY OF ~~HENNEPIN~~
ANOKA

On this 16th day of December, 2008, before me personally appeared Wesley A. Santa 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.



Donna M. Reeves
Notary Public

PATENT

ASSIGNMENT

WHEREAS, We **JOHN D. WAHLSTRAND; TIMOTHY J. DENISON; and WESLEY A. SANTA**, are the inventors with residence and citizenship as indicated below, have made an invention entitled **INTERCARDIAC IMPEDANCE FOR ISCHEMIA DETECTION** that is the subject of United States Utility Application Serial Number 12/263,358, filed October 31, 2008;

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 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 filing 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 oaths, and do all acts necessary or required to be done for the procurement of

ASSIGNMENT

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P0024569.00 (062032-013401)

NY 239,239,182v1 12-12-08

PATENT

REEL: 022029 FRAME: 0583

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 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 22nd day of December, 2008.


JOHN D. WAHLSTRAND

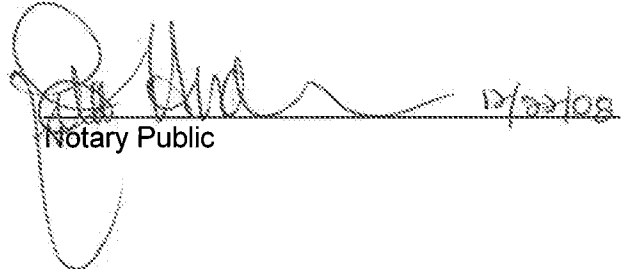
STATE OF MINNESOTA

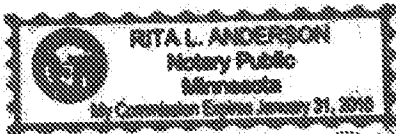
COUNTY OF HENNEPIN

Anoka

On this 22nd day of December, 2008, before me personally appeared John D. Wahlstrand, 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



Rita L. Anderson
12/22/08

ASSIGNMENT

Page 2 of 4

P0024569.00 (062032-013401)

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

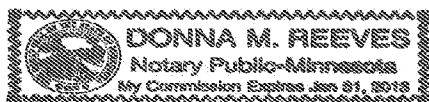
IN WITNESS WHEREOF, I have hereunto set my hand on this 15 day of Dec, 2008.

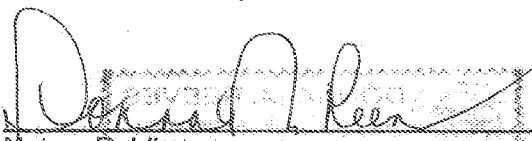

TIMOTHY J. DENISON

STATE OF Minnesota
County of Anoka
~~COUNTY OF HENNEPIN~~

On this 15th day of December, 2008, before me personally appeared Tim Denison 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.

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Notary Public

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IN WITNESS WHEREOF, I have hereunto set my hand on this 16 day of December, 2008.

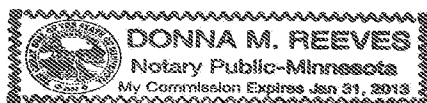
Wesley A. Santa
WESLEY A. SANTA

STATE OF MINNESOTA

COUNTY OF ~~HEMPSTEAD~~
Anoka

On this 16th day of December, 2008, before me personally appeared Wesley A. Santa 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.



Donna M. Reeves
Notary Public

NY 239,239,182v1 12-12-08

ASSIGNMENT
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