

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3864598

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SARAH A AUDET	10/30/2008
JAMES K CARNEY	02/10/2009
WILLIAM J COMBS	01/20/2009
TOMMY D BENNETT	10/30/2008
BARBRO M.L. KJELLSTROM	02/02/2009
RECEIVING PARTY DATA	
Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway
Internal Address:	Mail Stop LC340
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15090105
CORRESPONDENCE DATA	
Fax Number:	(763)505-2530
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	(763) 526-0932
Email:	susan.m.nienaber@medtronic.com
Correspondent Name:	CAROL F. BARRY
Address Line 1:	710 MEDTRONIC PARKWAY
Address Line 2:	MAIL STOP LC340
Address Line 4:	MINNEAPOLIS, MINNESOTA 55432
ATTORNEY DOCKET NUMBER:	P0025573.USC2
NAME OF SUBMITTER:	SUSAN M. NIENABER
SIGNATURE:	/Susan M. Nienaber/
DATE SIGNED:	05/09/2016

Total Attachments: 31

source=EFS_executed_assignment#page1.tif
source=EFS_executed_assignment#page2.tif
source=EFS_executed_assignment#page3.tif
source=EFS_executed_assignment#page4.tif
source=EFS_executed_assignment#page5.tif
source=EFS_executed_assignment#page6.tif
source=EFS_executed_assignment#page7.tif
source=EFS_executed_assignment#page8.tif
source=EFS_executed_assignment#page9.tif
source=EFS_executed_assignment#page10.tif
source=EFS_executed_assignment#page11.tif
source=EFS_executed_assignment#page12.tif
source=EFS_executed_assignment#page13.tif
source=EFS_executed_assignment#page14.tif
source=EFS_executed_assignment#page15.tif
source=EFS_executed_assignment#page16.tif
source=EFS_executed_assignment#page17.tif
source=EFS_executed_assignment#page18.tif
source=EFS_executed_assignment#page19.tif
source=EFS_executed_assignment#page20.tif
source=EFS_executed_assignment#page21.tif
source=EFS_executed_assignment#page22.tif
source=EFS_executed_assignment#page23.tif
source=EFS_executed_assignment#page24.tif
source=EFS_executed_assignment#page25.tif
source=EFS_executed_assignment#page26.tif
source=EFS_executed_assignment#page27.tif
source=EFS_executed_assignment#page28.tif
source=EFS_executed_assignment#page29.tif
source=EFS_executed_assignment#page30.tif
source=EFS_executed_assignment#page31.tif

803
BENNETT
ASSIGNMENT

WHEREAS, We, SARAH A. AUDET, JAMES K. CARNEY, WILLIAM J. COMBS, TOMMY D. ~~BENNETT~~ and BARBRO M. L. KJELLSTROM, are the inventors with residence and citizenship as indicated below, have made an invention entitled **METHOD AND APPARATUS TO DETECT ISCHEMIA WITH A PRESSURE SENSOR** that is the subject of United States Utility Application Serial Number (12/263,423), filed (Oct. 31, 2008), [We hereby authorize the application serial number and filing date of said utility application to be inserted above in the parentheses when known];

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

ASSIGNMENT
Page 1 of 6
P0025573.00

062032-014600
OC 286,328,634v1 10-29-08

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 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 30th day of October, 2008.


SARAH A. AUDET

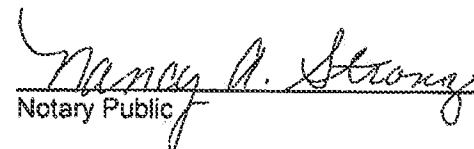
STATE OF MINNESOTA

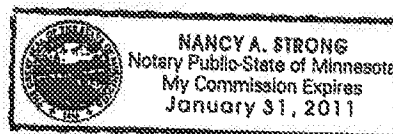
COUNTY OF RAMSEY

COUNTRY USA

On this 30th day of OCTOBER, 2008, before me personally appeared Sarah A. Audet, 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.


Nancy A. Strong
Notary Public



062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 2 of 6
P0025573.00

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 _____ day of _____, 2008.

JAMES K. CARNEY

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared James K. Carney, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 3 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0114

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.

WILLIAM J. COMBS

STATE OF

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared William J. Combs, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 4 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0115

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.

TOMMY D. BENNETT

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Tommy D. Bennett, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 5 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0116

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.

BARBRO M. L. KJELLSTROM

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Barbro M. L. Kjellstrom, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 6 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0117

BD7
BENNETT
ASSIGNMENT

WHEREAS, We, SARAH A. AUDET, JAMES K. CARNEY, WILLIAM J. COMBS, TOMMY D. ~~BENNETT~~, and BARBRO M. L. KJELLSTROM, are the inventors with residence and citizenship as indicated below, have made an invention entitled **METHOD AND APPARATUS TO DETECT ISCHEMIA WITH A PRESSURE SENSOR** that is the subject of United States Utility Application Serial Number (12/263,423), filed (Oct. 31, 2008), [We hereby authorize the application serial number and filing date of said utility application to be inserted above in the parentheses when known];

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

ASSIGNMENT
Page 1 of 6
P0025573.00

062032-014600
OC 286,328,634v1 10-29-08

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 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.

SARAH A. AUDET

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Sarah A. Audet, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 2 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0119

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 10th day of February, 2008. *JK*

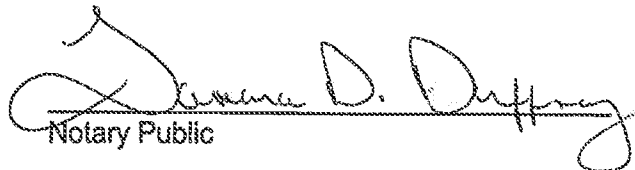

JAMES K. CARNEY

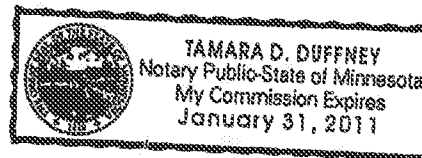
STATE OF MINNESOTA

COUNTY OF Ramsey

On this 10th day of February, 2008, before me personally appeared James K. Carney, 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 6
P0025573.00

062032-014600
OC 286,328,634v1 10-29-08

PATENT
REEL: 038643 FRAME: 0120

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.

WILLIAM J. COMBS

STATE OF

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared William J. Combs, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 4 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0121

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.

TOMMY D. BENNETT

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Tommy D. Bennett, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 5 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0122

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.

BARBRO M. L. KJELLSTROM

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Barbro M. L. Kjellstrom, 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

062032-014600
OC 285,328,634v1 10-29-08

ASSIGNMENT
Page 6 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0123

ASSIGNMENT

BENNETT

WHEREAS, We, SARAH A. AUDET, JAMES K. CARNEY, WILLIAM J. COMBS, TOMMY D. BENNETT, and BARBRO M. L. KJELLSTROM, are the inventors with residence and citizenship as indicated below, have made an invention entitled **METHOD AND APPARATUS TO DETECT ISCHEMIA WITH A PRESSURE SENSOR** that is the subject of United States Utility Application Serial Number (12/263,423), filed (Oct. 31, 2008), [We hereby authorize the application serial number and filing date of said utility application to be inserted above in the parentheses when known];

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

ASSIGNMENT
Page 1 of 6
P0025573.00

062032-014600
OC 286,328,634v1 10-29-08

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 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.

SARAH A. AUDET

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Sarah A. Audet, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 2 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0125

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.

JAMES K. CARNEY

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared James K. Carney, 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 6
P0025573.00

062032-014600
OC 286,328,634v1 10-29-08

PATENT
REEL: 038643 FRAME: 0126

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 20 day of January, ~~2008~~ 2009

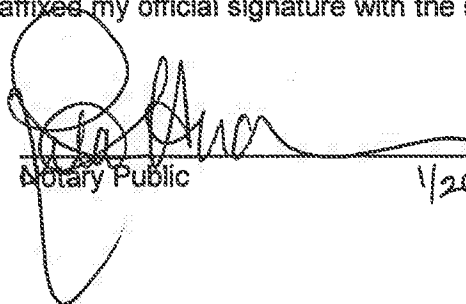

WILLIAM J. COMBS

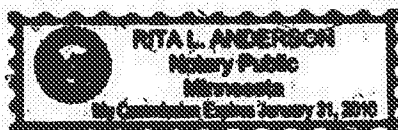
STATE OF Minnesota

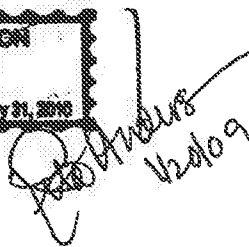
COUNTY OF Anoka

On this 20th day of January, ~~2008~~ 2009, before me personally appeared William J. Combs, 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 1/20/09




Rita L. Anderson
1/20/09

ASSIGNMENT
Page 4 of 6
P0025573.00

062032-014600
OC 286,328,634v1 10-29-08

PATENT
REEL: 038643 FRAME: 0127

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.

TOMMY D. BENNETT

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Tommy D. Bennett, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 5 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0128

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.

BARBRO M. L. KJELLSTROM

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Barbro M. L. Kjellstrom, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 6 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0129

ASSIGNMENT

⁸⁰³
BENNETT WHEREAS, We, SARAH A. AUDET, JAMES K. CARNEY, WILLIAM J. COMBS, TOMMY D. ~~BENNETT~~, and BARBRO M. L. KJELLSTROM, are the inventors with residence and citizenship as indicated below, have made an invention entitled **METHOD AND APPARATUS TO DETECT ISCHEMIA WITH A PRESSURE SENSOR** that is the subject of United States Utility Application Serial Number (12/263,423), filed (Oct. 31, 2008), [We hereby authorize the application serial number and filing date of said utility application to be inserted above in the parentheses when known];

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

ASSIGNMENT
Page 1 of 6
P0025573.00

062032-014600
OC 286,328,634v1 10-29-08

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 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.

SARAH A. AUDET

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Sarah A. Audet, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 2 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0131

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.

JAMES K. CARNEY

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared James K. Carney, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 3 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0132

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.

WILLIAM J. COMBS

STATE OF

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared William J. Combs, 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

062032-014600
OC 266,328,634v1 10-29-08

ASSIGNMENT
Page 4 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0133

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 30th day of October, 2008.

Tommy D. Bennett
TOMMY D. BENNETT

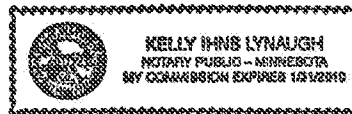
STATE OF MINNESOTA

COUNTY OF Ramsey

On this 30th day of October, 2008, before me personally appeared Tommy D. Bennett, 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.

Kelly Inis Lynaugh
Notary Public



062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 5 of 6
P0025573.00

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 _____ day of _____, 2008.

BARBRO M. L. KJELLSTROM

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Barbro M. L. Kjellstrom, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 6 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0135

203
BENNETT
ASSIGNMENT

WHEREAS, We, SARAH A. AUDET, JAMES K. CARNEY, WILLIAM J. COMBS, TOMMY D. BENNETT, and BARBRO M. L. KJELLSTROM, are the inventors with residence and citizenship as indicated below, have made an invention entitled **METHOD AND APPARATUS TO DETECT ISCHEMIA WITH A PRESSURE SENSOR** that is the subject of United States Utility Application Serial Number (12/263,423), filed (Oct. 31, 2008), [We hereby authorize the application serial number and filing date of said utility application to be inserted above in the parentheses when known];

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

ASSIGNMENT
Page 1 of 6
P0025573.00

062032-014600
OC 286,328,634v1 10-29-08

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 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.

SARAH A. AUDET

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Sarah A. Audet, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 2 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0137

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.

JAMES K. CARNEY

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared James K. Carney, 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

062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 3 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0138

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.

WILLIAM J. COMBS

STATE OF

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared William J. Combs, 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

062032-014600
OC 286,328,534v1 10-29-08

ASSIGNMENT
Page 4 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0139

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.

TOMMY D. BENNETT

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Tommy D. Bennett, 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

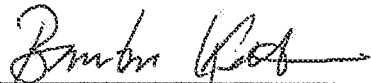
062032-014600
OC 288,328,634v1 10-29-08

ASSIGNMENT
Page 5 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0140

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 2nd day of February, 2008⁹

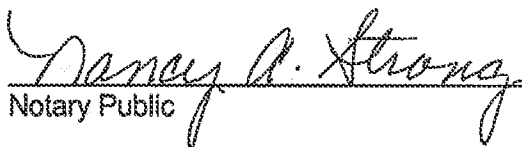

BARBRO M. L. KJELLSTROM

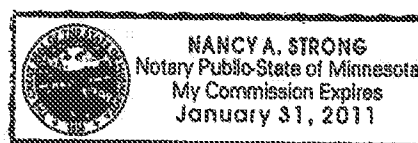
STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 2ND day of FEBRUARY, 2008⁹, before me personally appeared Barbro M. L. Kjellstrom, 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



062032-014600
OC 286,328,634v1 10-29-08

ASSIGNMENT
Page 6 of 6
P0025573.00

PATENT
REEL: 038643 FRAME: 0141

Comment 1

Inventor "Tommy D. Bennett" incorrectly listed on recordation form cover sheet and first page of assignment as "Tommy D. Bennet"

Thus, the recordation form cover sheet and first page of assignment are being hereby corrected in accordance with the proper spelling of the inventor's name.

Comment 2

assignment from "Tommy D. Bennett" to Medtronic, Inc.