

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Maneesh Shrivastav	01/08/2009
Yong K. Cho	12/17/2008
Tommy D. Bennett	12/17/2008
Mark K. Erickson	12/17/2008
Saul E. Greenhut	12/16/2008
Karen J. Kleckner	12/16/2008
Charles P. Sperling	12/17/2008
Robert A. Corey	12/17/2008

RECEIVING PARTY DATA

Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway NE
Internal Address:	Mail Stop LC340
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432-5640

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12262285

CORRESPONDENCE DATA

Fax Number: (763)505-2530

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

Phone: 763-526-0938

Email: madelyn.thompson@medtronic.com

Correspondent Name: Michael C. Soldner

Address Line 1: 710 Medtronic Parkway N.E.

Address Line 2: Mail Stop LC340

PATENT

500752706

REEL: 022098 FRAME: 0581

CH \$40.00 12262285

Address Line 4: Minneapolis, MINNESOTA 55432

ATTORNEY DOCKET NUMBER:

P0033894.00

NAME OF SUBMITTER:

Michael C. Soldner

**Total Attachments: 9**

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## ASSIGNMENT

WHEREAS, WE, Maneesh Shrivastav, Yong K. Cho, Tommy D. Bennett, Mark K. Erickson, Saul E. Greenhut, Karen J. Kleckner, Charles P. Sperling, and Robert A. Corey, are the inventors of METHOD AND APPARATUS FOR DETERMINING A RESPIRATION PARAMETER IN A MEDICAL DEVICE for which an application for a United States Patent was filed on October 31, 2008, under Serial No. 12/262,285; 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.

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 8<sup>th</sup> day of January, 2009.

Maneesh Shrivastav  
Maneesh Shrivastav

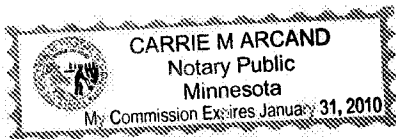
STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 8<sup>th</sup> day of January, 2008, before me personally appeared Maneesh Shrivastav, 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.

Carrie M Arcand  
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 17<sup>th</sup> day of December, 2008.

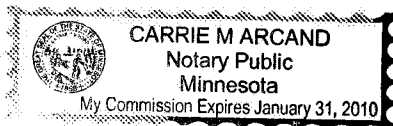
Yong K. Cho  
Yong K. Cho

STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 17<sup>th</sup> day of December, 2008, before me personally appeared Yong K. Cho, 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.



Carrie M. Arcand  
Notary Public

ASSIGNMENT  
Page 3 of 9  
P0033894.00

PATENT  
REEL: 022098 FRAME: 0585

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 17<sup>th</sup> day of December, 2008.

Tommy D. Bennett  
Tommy D. Bennett

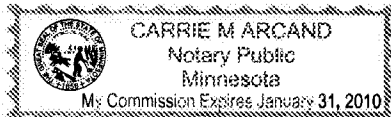
STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 17<sup>th</sup> day of December, 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.


Carrie M. Arcand  
Notary Public



ASSIGNMENT  
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P0033894.00

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 17 day of December, 2008.



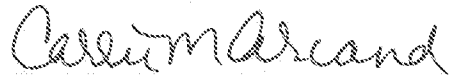
Mark K. Erickson

STATE OF MINNESOTA

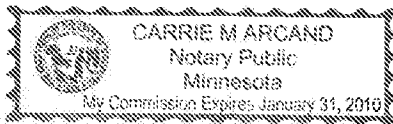
COUNTY OF RAMSEY

On this 17<sup>th</sup> day of December, 2008, before me personally appeared Mark K. Erickson, 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.

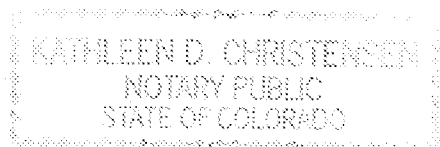
IN WITNESS WHEREOF, I have hereunto set my hand on this 16 day of December, 2008.

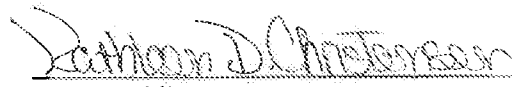
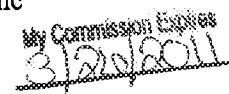
  
Saul E. Greenhut

STATE OF Colorado  
COUNTY OF Douglas

On this 16<sup>th</sup> day of December, 2008, before me personally appeared Saul E. Greenhut, 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  
My Commission Expires 3/20/2011



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.

Karen J. Kleckner  
Karen J. Kleckner

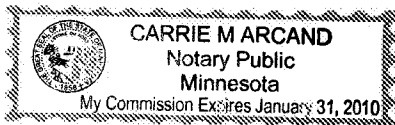
STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 16<sup>th</sup> day of December, 2008, before me personally appeared Karen J. Kleckner, 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.

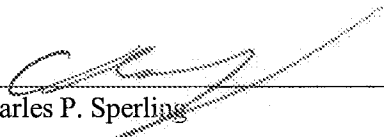
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Carrie Marcand  
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 17<sup>th</sup> day of Dec, 2008.

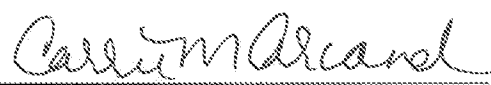
  
Charles P. Sperling

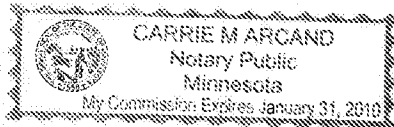
STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 17<sup>th</sup> day of December, 2008, before me personally appeared Charles P. Sperling, 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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P0033894.00

**PATENT**  
**REEL: 022098 FRAME: 0590**

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 17 day of December, 2008.

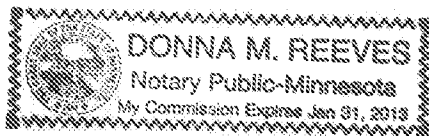
  
Robert A. Corey

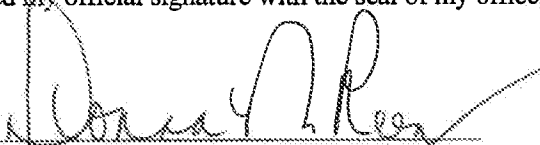
STATE OF MINNESOTA

COUNTY OF ~~RAMSEY~~  
Anoka

On this 17<sup>th</sup> day of December, 2008, before me personally appeared Robert A. Corey, 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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