

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Walt L. Carpenter	10/01/2009
Robert W. Olsen	10/01/2009
Michael J. Hobday	10/01/2009
Alford L. McLevish	10/01/2009
Christopher J. Plott	10/01/2009
Roderick E. Briscoe	10/02/2009
Patrick J. Cloutier	10/01/2009
Anil Thapa	10/01/2009
Ming Li	10/01/2009
Kevin McIntosh	09/30/2009
Ken Merte	09/17/2009

RECEIVING PARTY DATA

Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55311

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12428674

CORRESPONDENCE DATA

Fax Number: (763)505-2530

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

Phone: 7635058423

Email: katy.j.huebsch@medtronic.com

Correspondent Name: Katharine A Jackson Huebsch

500981468

PATENT
REEL: 023333 FRAME: 0389

CH \$40.00 12428674

Address Line 1: 710 Medtronic Parkway
Address Line 4: Minneapolis, MINNESOTA 55432

ATTORNEY DOCKET NUMBER: P0028499.00

NAME OF SUBMITTER: Katharine A. Jackson Huebsch

Total Attachments: 12

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ASSIGNMENT

WHEREAS, WE, Walt L. Carpenter, Robert W. Olsen, Michael J. Hobday, Alford L. McLevish, Christopher J. Plott, Roderick E. Briscoe, Patrick J. Cloutier, Anil Thapa, Ming Li, Kevin McIntosh and Ken Merte are the inventors of RADIAL DESIGN OXYGENATOR WITH HEAT EXCHANGER for which we have executed a patent application which was or is to be filed in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States, which application was filed on April 23, 2009 as U.S. Patent Application No. 12/428,674; 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, Minneapolis, Minnesota 55432, 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, I have assigned, transferred and set over and by these presents do 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 my rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part, reissues and reexaminations 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, for the consideration aforesaid, I 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 inventors of the entire right, title and interest in and to the invention;

AND, for the consideration aforesaid, I 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, reexamination or extension of said Letters Patent is lawful and desirable, I, or my 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, reexamination 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 1st day
of October, 2009.

Walt L. Carpenter
Walt L. Carpenter

STATE OF Minnesota

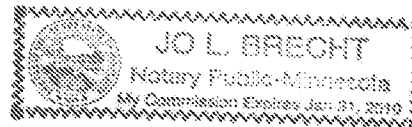
ss.

COUNTY OF Hennepin

On this 1st day of October, 2009, before me personally appeared Walt L. Carpenter, 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.

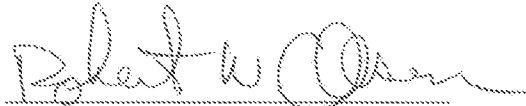
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Jo L. Brecht
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 1st day of Oct, 2009.


Robert W. Olsen

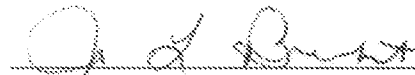
STATE OF Minnesota

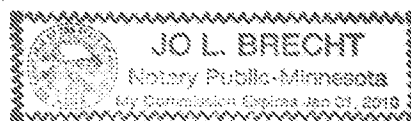
SS.

COUNTY OF Hennepin

On this 1st day of October, 2009, before me personally appeared Robert W. Olsen, 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.

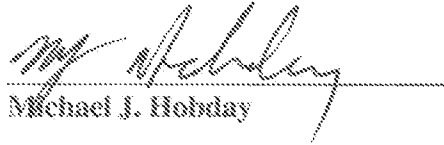
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.


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 13th day
of October, 2009.


Michael J. Hobday

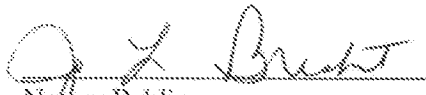
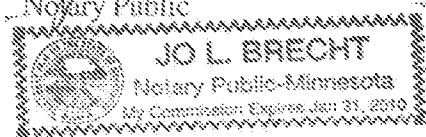
STATE OF Minnesota

ss.

COUNTY OF Hennepin

On this 13th day of October, 2009, before me personally appeared Michael J. Hobday, 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

JO L. BRECHT
Notary Public-Minnesota
My Commission Expires Jan 31, 2010

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 1st day of October, 2009.

Alford L. McLevish
Alford L. McLevish

STATE OF Minnesota

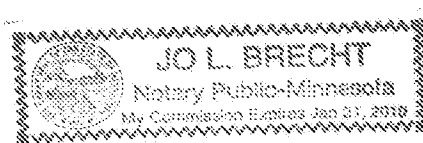
ss.

COUNTY OF Hennepin

On this 1st day of October, 2009, before me personally appeared Alford L. McLevish, 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.

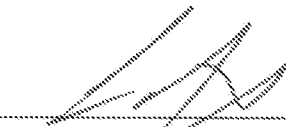
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Jo L. Brecht
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 1st day
of October, 2009.



Christopher J. Plott

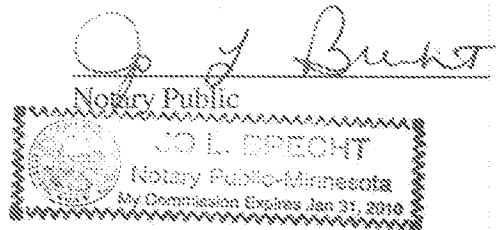
STATE OF Minnesota

ss.

COUNTY OF Hennepin

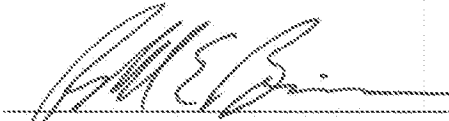
On this 1st day of October, 2009, before me personally appeared Christopher J. Plott, to me known to be the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

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



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 October, 2009.


Roderick E. Briscoe

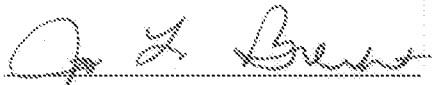
STATE OF Minnesota

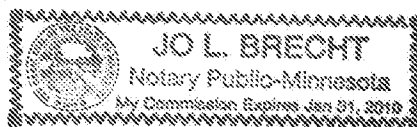
ss.

COUNTY OF Hennepin

On this 2nd day of October, 2009, before me personally appeared Roderick E. Briscoe, 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 1st day of Oct, 2009.

Patrick J. Cloutier
Patrick J. Cloutier

STATE OF Minnesota

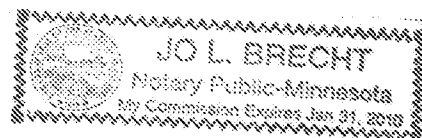
ss.

COUNTY OF Hennepin

On this 1st day of October, 2009, before me personally appeared Patrick J. Cloutier, 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.

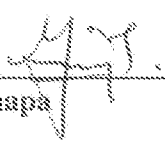
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Jo L. Brecht
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 1st day of October, 2009.



Anil Thapa

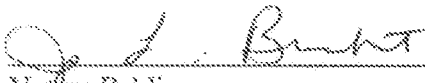
STATE OF Minnesota

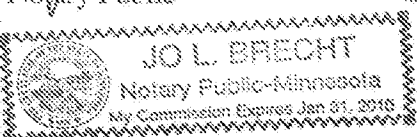
ss.

COUNTY OF Hennepin

On this 1st day of October, 2009, before me personally appeared Anil Thapa, 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.

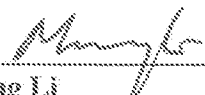
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Notary Public

JO L. BRECHT
Notary Public-Minnesota
My Commission Expires Jan 31, 2010

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 1st day of Oct., 2009.

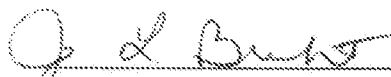
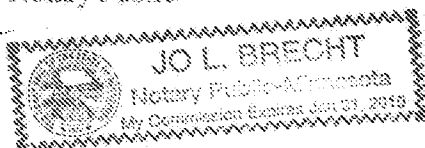

Ming Li

STATE OF Minnesota

COUNTY OF Ramsey ^{ss. 10/1/09} Hennepin

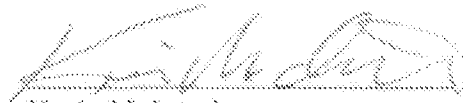
On this 1st day of Oct., 2009, before me personally appeared Ming Li, to me known to be the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

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 30 day
of September, 2009.

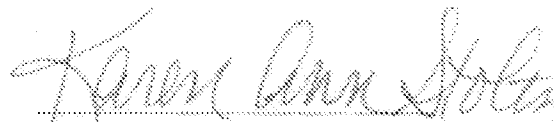

Kevin McIntosh

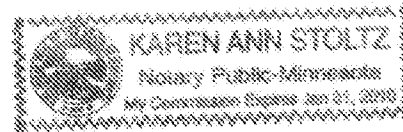
STATE OF Minnesota

COUNTY OF Anoka ss.

On this 30th day of September, 2009, before me personally appeared Kevin McIntosh, 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.

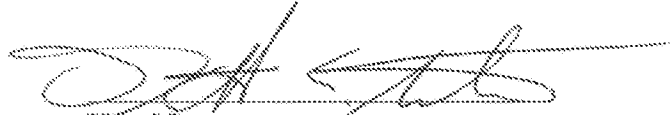

Notary Public





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 17th day of September, 2009.


Ken Merte

STATE OF TEXAS

ss.

COUNTY OF TARRANT

On this 17 day of SEPTEMBER, 2009, before me personally appeared Ken Merte, 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

