

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Matthew David Bonner	10/06/2008
Kevin Patrick Kuehn	10/06/2008
Vladimir Pavlovich Nikolski	10/06/2008
Joseph L. Sullivan	10/06/2008
William John Havel	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

Property Type	Number
Application Number:	12183517

CORRESPONDENCE DATA

Fax Number: (651)735-1102

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

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:

P0033281.00/1111-061US01

NAME OF SUBMITTER:

Jessica H. Kwak

PATENT

500673488

REEL: 021668 FRAME: 0880

CH \$40.00 12183517

Total Attachments: 12

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PATENT

REEL: 021668 FRAME: 0881

ASSIGNMENT

WHEREAS, We Matthew David Bonner of 18400 5th Avenue North, Plymouth, Minnesota 55447; Kevin Patrick Kuehn of 1076 Lawnview Avenue, Shoreview, Minnesota 55126; Vladimir Pavlovich Nikolski of 2682 Alamo Circle NE, Blaine, Minnesota 55449; Joseph L. Sullivan of 13829 101 Place NE, Kirkland, Washington 98034; and William John Havel of 9337 Peony Lane North, Maple Grove, Minnesota 55311, are the inventors of the invention entitled **EXTRAVASCULAR ARRRHYTHMIA INDUCTION**, for which an application for a United States Patent was filed on July 31, 2008, under Serial No. 12/183,517; 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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P0033281.00/1111-061US01

PATENT**REEL: 021668 FRAME: 0882**

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

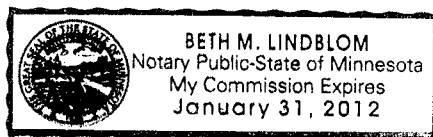
IN WITNESS WHEREOF, I have hereunto set my hand on this 6th day of October, 2008.

Matthew David Bonner

Matthew David Bonner

STATE OF MINNESOTA

COUNTY OF Washington



On this 6th day of October, 2008, before me personally appeared Matthew David Bonner, 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

ASSIGNMENT

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P0033281.00/1111-061US01

PATENT

REEL: 021668 FRAME: 0883

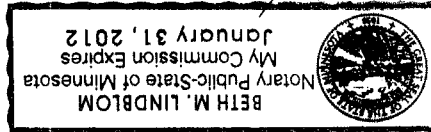
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

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

Kevin P. Kuehn
Kevin Patrick Kuehn

STATE OF MINNESOTA

COUNTY OF Washington



On this 6th day of October, 2008, before me personally appeared Kevin Patrick Kuehn, 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.

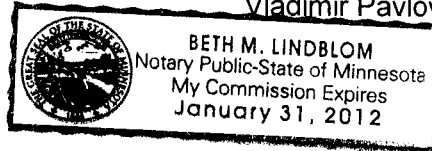
IN WITNESS WHEREOF, I have hereunto set my hand on this 06 day of October, 2008.

Vladimir P. Nikolski

Vladimir Pavlovich Nikolski

STATE OF MINNESOTA

COUNTY OF Washington



On this 06 day of October, 2008, before me personally appeared Vladimir Pavlovich Nikolski, 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 _____ day of _____, 2008.

Joseph L. Sullivan

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Joseph L. Sullivan, 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: 021668 FRAME: 0886

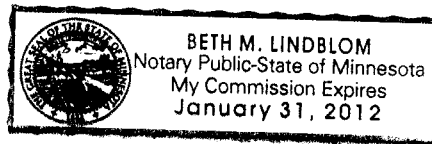
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

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

William J Havel
William John Havel

STATE OF MINNESOTA

COUNTY OF Washington



On this 6th day of October, 2008, before me personally appeared William John Havel, 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

ASSIGNMENT

WHEREAS, We Matthew David Bonner of 18400 5th Avenue North, Plymouth, Minnesota 55447; Kevin Patrick Kuehn of 1076 Lawnview Avenue, Shoreview, Minnesota 55126; Vladimir Pavlovich Nikolski of 2682 Alamo Circle NE, Blaine, Minnesota 55449; Joseph L. Sullivan of 13829 101 Place NE, Kirkland, Washington 98034; and William John Havel of 9337 Peony Lane North, Maple Grove, Minnesota 55311, are the inventors of the invention entitled **EXTRAVASCULAR ARRHYTHMIA INDUCTION**, for which an application for a United States Patent was filed on July 31, 2008, under Serial No. 12/183,517; 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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P0033281.00/1111-061US01

PATENT**REEL: 021668 FRAME: 0888**

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.

Matthew David Bonner

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Matthew David Bonner, 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 6
P0033281.00/1111-061US01

PATENT
REEL: 021668 FRAME: 0889

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.

Kevin Patrick Kuehn

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Kevin Patrick Kuehn, 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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P0033281.00/1111-061US01

PATENT
REEL: 021668 FRAME: 0890

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.

Vladimir Pavlovich Nikolski

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared Vladimir Pavlovich Nikolski, 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 4 of 6
P0033281.00/1111-061US01

PATENT
REEL: 021668 FRAME: 0891

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 SIXTH day of OCTOBER, 2008.

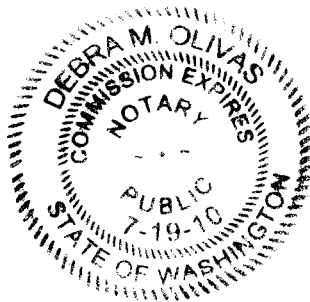
Joseph L. Sullivan
Joseph L. Sullivan

STATE OF MINNESOTA Washington

COUNTY OF King

On this 6th day of October, 2008, before me personally appeared Joseph L. Sullivan, 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.



Debra M. Olivas
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.

William John Havel

STATE OF MINNESOTA

COUNTY OF

On this _____ day of _____, 2008, before me personally appeared William John Havel, 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 6 of 6
P0033281.00/1111-061US01