

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4730542

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOHN SHISHILLA	01/17/2013
KATHRYN PEDERSON	01/14/2013
MUKUL JAIN	01/11/2013
NICHOLAS S. MAIRS	01/14/2013
RECEIVING PARTY DATA	
Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY N.E.
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14396671
CORRESPONDENCE DATA	
Fax Number:	(651)735-1102
<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:	651-735-1100
Email:	pairedocketing@ssiplaw.com
Correspondent Name:	SHUMAKER & SIEFFERT, P.A
Address Line 1:	1625 RADIO DRIVE , SUITE 100
Address Line 4:	WOODBURY, MINNESOTA 55125
ATTORNEY DOCKET NUMBER:	1123-099US01/C003347.USN4
NAME OF SUBMITTER:	JENNIFER DALLMAN
SIGNATURE:	/Jennifer Dallman/
DATE SIGNED:	12/12/2017
Total Attachments: 18	
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ASSIGNMENT

For valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/We, John Shishilla of 4335 Shorewood Trail, Medina, Minnesota 55340, Kathryn Pederson of 18357 Lakeview Point Drive NE, East Bethel, Minnesota 55092, Mukul Jain of 18612 Harvest Scene Ct., Boyds, Maryland 20841 and Nicholas S. Mairs of 3311 Hennepin Avenue, Minneapolis, Minnesota 55408 (collectively hereinafter called "the Assignor(s)"), have sold, assigned, transferred and set over, and hereby do sell, assign, transfer and set over to Medtronic, Inc, a corporation existing under the laws of the State of Minnesota and having a place of business at: 710 Medtronic Parkway, Minneapolis, Minnesota 55432, and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in and to the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled TRIAL STIMULATION SYSTEMS, filed April 26, 2012, and assigned U.S. Serial Number 61/638,938; this assignment including all right, title and interest in said application, any provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other applications disclosing any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and including any rights, including the right to claim priority based on the filing date of any of these applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes, the same to be held and enjoyed by the Assignee for its own use and benefit and the use and benefit of its successors and assigns to the full end of the term for which any patents may be granted on such applications, as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this assignment and sale not been made, including the right to enforce such patents as fully and entirely as the same would have been held and enjoyed by the Assignor(s) if this assignment had not been made, together with all claims by the Assignor(s) for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for the Assignee's own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives, and the Assignor(s) authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of

exclusion and for inventors' certificates for said inventions and improvements; and the Assignor(s) agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. For the consideration noted above, the Assignor(s) materially represent to the Assignee, and its successors and assigns, that at the time of the execution and delivery of this assignment, the Assignor(s) are the sole lawful owners of the entire right, title and interest in and to the inventions, improvements, applications and patents above mentioned, and that the same are unencumbered, and that the Assignor(s) have good right and lawful authority to assign, sell and convey the same in the manner herein set forth. For the consideration noted above, the Assignor(s) hereby individually covenant and agree to and with the Assignee, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns 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 or extension of such patents is lawful and desirable, the Assignor(s), or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required for the procurement of valid patents for said inventions, or for the reissue or extension of the same, without charge to the Assignee, its successors or assigns, but at the Assignee's expense. The Assignor(s) do hereby authorize and request the Commissioner of Patents of the United States Patent and Trademark Office to issue any and all patents which may be granted upon any of the said applications, to the Assignee, as the assignee of the entire right, title, and interest therein.

Attorney Docket No.: 1123-099USP1/C00003347, USP1

Date: 17 JAN 2013

John Shishilla
John Shishilla

State of)
) ss:
County of)

On this 17 day of January, 2013, before me, Heather Johnson
Notary Public, personally appeared John Shishilla personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Heather Johnson
Signature of Notary Public



My Commission Expires: January 31, 2017

ASSIGNMENT

For valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/We, John Shishilla of 4335 Shorewood Trail, Medina, Minnesota 55340, Katbryn Pederson of 18357 Lakeview Point Drive NE, East Bethel, Minnesota 55092, Mukul Jain of 18612 Harvest Scene Ct., Boyds, Maryland 20841 and Nicholas S. Mairs of 3311 Hennepin Avenue, Minneapolis, Minnesota 55408 (collectively hereinafter called "the Assignor(s)"), have sold, assigned, transferred and set over, and hereby do sell, assign, transfer and set over to Medtronic, Inc, a corporation existing under the laws of the State of Minnesota and having a place of business at: 710 Medtronic Parkway, Minneapolis, Minnesota 55432, and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in and to the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled TRIAL STIMULATION SYSTEMS, filed April 26, 2012, and assigned U.S. Serial Number 61/638,938; this assignment including all right, title and interest in said application, any provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other applications disclosing any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and including any rights, including the right to claim priority based on the filing date of any of these applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes, the same to be held and enjoyed by the Assignee for its own use and benefit and the use and benefit of its successors and assigns to the full end of the term for which any patents may be granted on such applications, as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this assignment and sale not been made, including the right to enforce such patents as fully and entirely as the same would have been held and enjoyed by the Assignor(s) if this assignment had not been made, together with all claims by the Assignor(s) for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for the Assignee's own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives, and the Assignor(s) authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of

exclusion and for inventors' certificates for said inventions and improvements; and the Assignor(s) agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. For the consideration noted above, the Assignor(s) materially represent to the Assignee, and its successors and assigns, that at the time of the execution and delivery of this assignment, the Assignor(s) are the sole lawful owners of the entire right, title and interest in and to the inventions, improvements, applications and patents above mentioned, and that the same are unencumbered, and that the Assignor(s) have good right and lawful authority to assign, sell and convey the same in the manner herein set forth. For the consideration noted above, the Assignor(s) hereby individually covenant and agree to and with the Assignee, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns 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 or extension of such patents is lawful and desirable, the Assignor(s), or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required for the procurement of valid patents for said inventions, or for the reissue or extension of the same, without charge to the Assignee, its successors or assigns, but at the Assignee's expense. The Assignor(s) do hereby authorize and request the Commissioner of Patents of the United States Patent and Trademark Office to issue any and all patents which may be granted upon any of the said applications, to the Assignee, as the assignee of the entire right, title, and interest therein.

Date: 14 Jan 2013

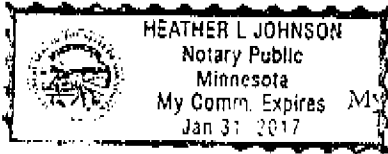
Kathryn Pederson
Kathryn Pederson

State of _____)
) ss:
County of _____)

On this 14 day of January, 2013 before me, Heather Johnson
Notary Public, personally appeared Kathryn Pederson personally known to me (or proved to me on the
basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to within the instrument
and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that
by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.

Heather Johnson
Signature of Notary Public



My Commission Expires: January 31, 2017

Attorney Docket No.: 1123-099USP1/C00003347.USP1

Date: _____
Mukul Jain

State of _____)
County of _____) ss:
County of _____)

On this _____ day of _____, 20____, before me, _____,
Notary Public, personally appeared Mukul Jain personally known to me (or proved to me on the basis of
satisfactory evidence) to be the person(s) whose name is/are subscribed to within the instrument and
acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by
his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.


WITNESS my hand and official seal.

Signature of Notary Public

My Commission Expires:

Attorney Docket No.: 1123-099USP1/C00003347.USP1

Date: 14 Jan 2013



Nicholas S. Mairs

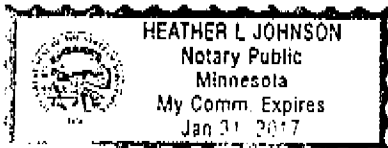
State of _____)
) ss:
County of _____)

On this 14 day of January, 2013, before me, Heather Johnson
Notary Public, personally appeared Nicholas S. Mairs personally known to me (or proved to me on the
basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to within the instrument
and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that
by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.



Signature of Notary Public



My Commission Expires: January 31, 2017

ASSIGNMENT

For valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/We, John Shishilla of 4335 Shorewood Trail, Medina, Minnesota 55340, Kathryn Pederson of 18357 Lakeview Point Drive NE, East Bethel, Minnesota 55092, Mukul Jain of 18612 Harvest Scene Ct., Boyds, Maryland 20841 and Nicholas S. Mairs of 3311 Hennepin Avenue, Minneapolis, Minnesota 55408 (collectively hereinafter called "the Assignor(s)"), have sold, assigned, transferred and set over, and hereby do sell, assign, transfer and set over to Medtronic, Inc, a corporation existing under the laws of the State of Minnesota and having a place of business at: 710 Medtronic Parkway, Minneapolis, Minnesota 55432, and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in and to the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled TRIAL STIMULATION SYSTEMS, filed April 26, 2012, and assigned U.S. Serial Number 61/638,938; this assignment including all right, title and interest in said application, any provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other applications disclosing any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and including any rights, including the right to claim priority based on the filing date of any of these applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes, the same to be held and enjoyed by the Assignee for its own use and benefit and the use and benefit of its successors and assigns to the full end of the term for which any patents may be granted on such applications, as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this assignment and sale not been made, including the right to enforce such patents as fully and entirely as the same would have been held and enjoyed by the Assignor(s) if this assignment had not been made, together with all claims by the Assignor(s) for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for the Assignee's own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives, and the Assignor(s) authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of

exclusion and for inventors' certificates for said inventions and improvements; and the Assignor(s) agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. For the consideration noted above, the Assignor(s) materially represent to the Assignee, and its successors and assigns, that at the time of the execution and delivery of this assignment, the Assignor(s) are the sole lawful owners of the entire right, title and interest in and to the inventions, improvements, applications and patents above mentioned, and that the same are unencumbered, and that the Assignor(s) have good right and lawful authority to assign, sell and convey the same in the manner herein set forth. For the consideration noted above, the Assignor(s) hereby individually covenant and agree to and with the Assignee, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns 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 or extension of such patents is lawful and desirable, the Assignor(s), or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required for the procurement of valid patents for said inventions, or for the reissue or extension of the same, without charge to the Assignee, its successors or assigns, but at the Assignee's expense. The Assignor(s) do hereby authorize and request the Commissioner of Patents of the United States Patent and Trademark Office to issue any and all patents which may be granted upon any of the said applications, to the Assignee, as the assignee of the entire right, title, and interest therein.

Attorney Docket No.: 1123-099USP1/C00003347.USP1

Date: _____
John Shishilla

State of)
) ss:
County of)

On this _____ day of _____, 20____, before me, _____,
Notary Public, personally appeared John Shishilla personally known to me (or proved to me on the basis
of satisfactory evidence) to be the person(s) whose name is/are subscribed to within the instrument and
acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by
his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary Public

My Commission Expires:

Attorney Docket No.: 1123-099USP1/C00003347.USP1

Date: _____
Kathryn Pederson

State of)
) ss:
County of)

On this _____ day of _____, 20____, before me, _____
Notary Public, personally appeared Kathryn Pederson personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary Public

My Commission Expires:

Attorney Docket No.: 1123-099USP1/C00003347.USP1

Date: Jan 11, 2013 *Mukul Jain*
Mukul Jain

State of Maryland)
) ss:
County of Montgomery)

On this 11 day of January, 2013, before me, *Mukul Jain*
Notary Public, personally appeared Mukul Jain personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Carol Amman
Signature of Notary Public

My Commission Expires: 05/20/2016

Attorney Docket No.: 1123-099USP1/C00003347.USP1

Date: _____
Nicholas S. Mairs

State of _____)
) ss:
County of _____)

On this _____ day of _____, 20____, before me, _____
Notary Public, personally appeared Nicholas S. Mairs personally known to me (or proved to me on the
basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to within the instrument
and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that
by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary Public

My Commission Expires: