

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Arin N. Holecek</td><td>10/07/2009</td></tr> <tr><td>Carolyn C. Majkrzak</td><td>09/25/2009</td></tr> <tr><td>Carol E. Eberhardt</td><td>09/25/2009</td></tr> <tr><td>Billie J. Millwee</td><td>09/25/2009</td></tr> <tr><td>Thao M. Nguyen</td><td>09/25/2009</td></tr> <tr><td>Janice L. Shay</td><td>09/25/2009</td></tr> <tr><td>Cynthia H. Chiu</td><td>09/25/2009</td></tr> <tr><td>Tara S. Kupumbati</td><td>09/25/2009</td></tr> </tbody> </table>		Name	Execution Date	Arin N. Holecek	10/07/2009	Carolyn C. Majkrzak	09/25/2009	Carol E. Eberhardt	09/25/2009	Billie J. Millwee	09/25/2009	Thao M. Nguyen	09/25/2009	Janice L. Shay	09/25/2009	Cynthia H. Chiu	09/25/2009	Tara S. Kupumbati	09/25/2009
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RECEIVING PARTY DATA																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>Medtronic, Inc.</td></tr> <tr><td>Street Address:</td><td>710 Medtronic Parkway</td></tr> <tr><td>City:</td><td>Minneapolis</td></tr> <tr><td>State/Country:</td><td>MINNESOTA</td></tr> <tr><td>Postal Code:</td><td>55432</td></tr> </table>		Name:	Medtronic, Inc.	Street Address:	710 Medtronic Parkway	City:	Minneapolis	State/Country:	MINNESOTA	Postal Code:	55432								
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CORRESPONDENCE DATA																			
Fax Number: (763)505-2530 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 7635058423 Email: katy.j.huebsch@medtronic.com Correspondent Name: Katharine A Jackson Huebsch Address Line 1: 710 Medtronic Parkway Address Line 4: Minneapolis, MINNESOTA 55432																			
ATTORNEY DOCKET NUMBER:	P0028316.01																		

CH \$40.00 12427768

500983920

PATENT
REEL: 023346 FRAME: 0543

NAME OF SUBMITTER:

Katharine A. Jackson Huebsch

Total Attachments: 16

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ASSIGNMENT

WHEREAS, WE, Arin N. Holecek, Carolyn C. Majkrzak, Carol E. Eberhardt, Billie J. Millwee, Thao M. Nguyen, Janice L. Shay, Cynthia H. Chiu and Tara S. Kupumbati are the inventors of TISSUE ATTACHMENT DEVICES AND METHODS FOR PROSTHETIC HEART VALVE for which we have executed a utility patent application which was filed in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States on April 16, 2009 as U.S. Patent Application Serial No. 12/427,768, 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, and in and to any of my interest in parent application U.S. Provisional Patent Application Serial No. 61/125,203 filed on April 23, 2008; 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 7th day of October, 2009.

Arim N. Holecek
Arim N. Holecek

STATE OF Washington
ss.
COUNTY OF Snohomish

On this 7th day of October, 2009, before me personally appeared Arin N. Holecek, 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.

Christine D. Skinfell
Notary Public



My Commission Expires:
Nov 18, 2012

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 25th day of September, 2009.

Carolyn C. Majkrzak
Carolyn C. Majkrzak

STATE OF _____ ss.
COUNTY OF _____

See Attached

On this _____ day of _____, 2009, before me personally appeared Carolyn C. Majkrzak, 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

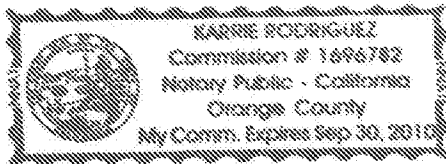
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Orange

On September 25, 2009 before me, Karrie Rodriguez, Notary Public

personally appeared Carolyn Majkrzak



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which this person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Karrie Rodriguez

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

PATENT

REEL: 023346 FRAME: 0548

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 25 day
of Sept, 2009.


Carol E. Eberhardt

STATE OF _____
ss.
COUNTY OF _____

See Attached

On this _____ day of _____, 2009, before me personally appeared Carol E. Eberhardt, 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

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Orange

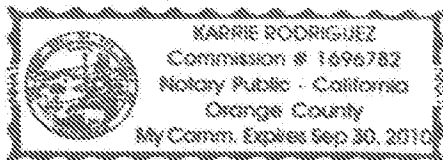
On September 25, 2009 before me, Karrie Rodriguez, Notary Public

personally appeared Carol Eberhardt

Here insert Name and Title of the Officer

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Karrie Rodriguez

Signature of Notary Public

Please Notary Seal Above

OPTIONAL

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☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

PATENT

REEL: 023346 FRAME: 0550

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 25th day of SEPTEMBER, 2009.

Billie J. Millwee
Billie J. Millwee

STATE OF _____
COUNTY OF _____ ss.

See Attached

On this _____ day of _____, 2009, before me personally appeared Billie J. Millwee, 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

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

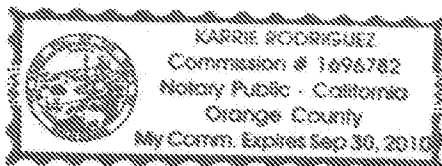
State of California

County of Orange

On September 25, 2009 before me, Karrie Rodriguez, Notary Public

personally appeared Billie Millwee,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Karrie Rodriguez

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: N/A

Document Date: N/A

Number of Pages: N/A

Signer(s) Other Than Named Above: N/A

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

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☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

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 25 day of September, 2009.

Thao M. Nguyen
Thao M. Nguyen

STATE OF _____ ss.
COUNTY OF OK

See Attached

On this _____ day of _____, 2009, before me personally appeared Thao M. Nguyen, 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

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

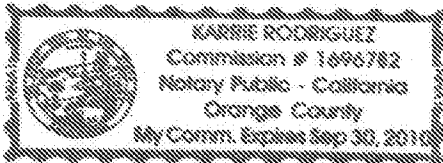
State of California

County of Orange

On September 25, 2009 before me, Karrie Rodriguez, Notary Public

personally appeared Thao Nguyen

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Karrie Rodriguez

Place Notary Seal Here

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- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

- ☐ Individual
- ☐ Corporate Officer — Title(s): _____
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer is Representing: _____

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 25 day
of September, 2009.

Janice L. Shay
Janice L. Shay

See Attached

STATE OF _____
ss.
COUNTY OF _____

On this _____ day of _____, 2009, before me personally appeared Janice L. Shay, 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

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

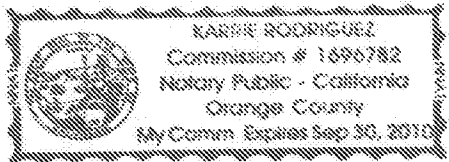
County of Orange

On September 25, 2009 before me, Karrie Rodriguez, Notary Public

personally appeared Janice Shay

Number of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Karrie Rodriguez

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☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

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 25th day of September, 2009.


Cynthia H. Chiu

STATE OF _____ ss.
COUNTY OF _____

See Attached

On this _____ day of _____, 2009, before me personally appeared Cynthia H. Chiu, 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

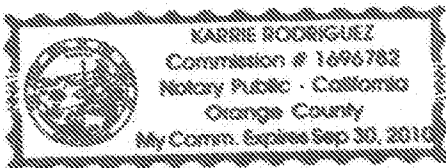
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Orange

On September 25, 2009 before me, Karrie Rodriguez, Notary Public

personally appeared Cynthia Chiu



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

Signature Karrie Rodriguez

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☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

- ☐ Individual
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☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

PATENT

REEL: 023346 FRAME: 0558

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 25th day of September, 2009.

Tara S. Kupumbati
Tara S. Kupumbati

STATE OF _____
ss.
COUNTY OF _____

See Attached

On this _____ day of _____, 2009, before me personally appeared Tara S. Kupumbati, 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

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

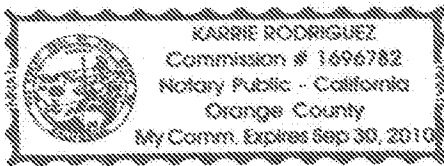
County of Orange

On September 25, 2009 before me, Karrie Rodriguez, Notary Public

personally appeared Tara Kupumbati

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Karrie Rodriguez

Signature of Notary Public

Place Notary Seal Above

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- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other:

Signer is Representing:

Signer's Name:

- ☐ Individual
- ☐ Corporate Officer — Title(s):
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other:

Signer is Representing:

PATENT

RECORDED: 10/08/2009

REEL: 023346 FRAME: 0560