

# PATENT ASSIGNMENT

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<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>Alan Shi</td> <td>11/11/2011</td> </tr> <tr> <td>Bernard Q. Li</td> <td>11/11/2011</td> </tr> <tr> <td>Daniel D. Sorensen</td> <td>11/11/2011</td> </tr> <tr> <td>Darren A. Janzig</td> <td>11/11/2011</td> </tr> </tbody> </table>		Name	Execution Date	Alan Shi	11/11/2011	Bernard Q. Li	11/11/2011	Daniel D. Sorensen	11/11/2011	Darren A. Janzig	11/11/2011
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<b>RECEIVING PARTY DATA</b>											
<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 NE</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>55432-5604</td> </tr> </table>		Name:	MEDTRONIC, INC.	Street Address:	710 Medtronic Parkway NE	City:	Minneapolis	State/Country:	MINNESOTA	Postal Code:	55432-5604
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (763)505-2530</p> <p>Phone: 763-505-5000</p> <p>Email: rs.docketingus@medtronic.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Medtronic, Inc. (CRDM)</p> <p>Address Line 1: 710 MEDTRONIC PARKWAY NE</p> <p>Address Line 2: MS: LC340 Legal Patents</p> <p>Address Line 4: MINNEAPOLIS, MINNESOTA 55432-9924</p>											
<b>ATTORNEY DOCKET NUMBER:</b>	MTRC.P0043US P0039410.USU										
<b>NAME OF SUBMITTER:</b>	Scott D. Rothenberger										

OP \$40.00 13301158

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**PATENT**  
**REEL: 027260 FRAME: 0627**

Total Attachments: 4

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ASSIGNMENT

WHEREAS, WE,

- (1) Alan Shi, residing at 12105 41<sup>st</sup> Ave. North, #308, Plymouth, MN 55441; and
- (2) Bernard Q. Li, residing at 2825 Norwood Lane North, Plymouth, MN 55441; and
- (3) Daniel D. Sorensen, residing at 3446 124<sup>th</sup> Circle NE, Blaine, MN 55449; and
- (4) Darren A. Janzig, residing at 512 Nelson Lane, Center City, MN 55012

have made an invention relating to SURFACE IMPROVEMENT ON ELECTRONIC DISCHARGE MACHINED TITANIUM ALLOY MINIATURE PARTS FOR IMPLANTABLE MEDICAL DEVICE for which we have executed an application for Letters Patent of United States of America,

☒ on even date herewith; and

☐ was filed on \_\_\_\_\_ as United States Application No. \_\_\_\_\_, and Provisional Application No. \_\_\_\_\_ filed \_\_\_\_\_; and

☐ for which above application claims priority to U.S. Provisional Patent Application No. \_\_\_\_\_; filed on \_\_\_\_\_; and

WHEREAS we hereby authorize and request the assignee, Medtronic, Inc., to insert the filing date and application number of said application when known; 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 NE, Minneapolis, Minnesota 55432-5604, 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 the above-identified invention and applications and the entire right, title and interest in and to any and all Letters Patent of the United States (including, without limitation, every patent application identified above) 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 that may be filed with respect to the above-identified invention and applications and 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 each of us had this assignment and sale not been made;

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 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 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 or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

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

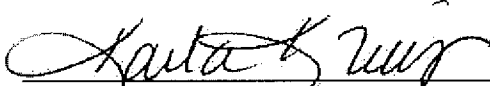
IN WITNESS WHEREOF, I have hereunto set my hand on this 11 day of 11, 2011.

  
Alan Shi

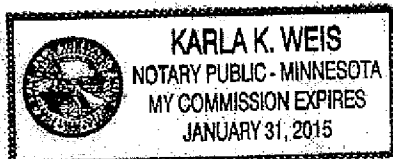
STATE OF MINNESOTA     )  
  ) ss.  
COUNTY OF Anoka     )

On this 11th day of November, 2011, before me personally appeared Alan Shi, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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

[SEAL]



IN WITNESS WHEREOF, I have hereunto set my hand on this 11 day of Nov., 2011.

Bernard Li  
Bernard Q. Li

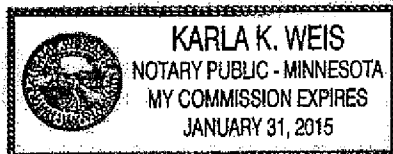
STATE OF MINNESOTA )  
COUNTY OF Anoka ) ss.

On this 11<sup>th</sup> day of November, 2011, before me personally appeared Bernard Q. Li, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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.

Karla K. Weis  
Notary Public

[SEAL]



IN WITNESS WHEREOF, I have hereunto set my hand on this 11<sup>th</sup> day of Nov, 2011.

Daniel D. Sorensen  
Daniel D. Sorensen

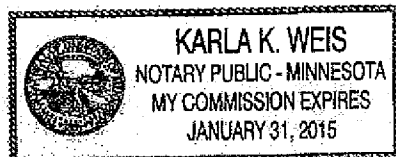
STATE OF MINNESOTA )  
COUNTY OF Anoka ) ss.

On this 11<sup>th</sup> day of November, 2011, before me personally appeared Daniel D. Sorensen, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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.

Karla K. Weis  
Notary Public

[SEAL]



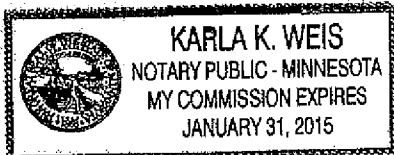
IN WITNESS WHEREOF, I have hereunto set my hand on this 11<sup>th</sup> day of  
November, 2011.

Darren A. Janzig  
Darren A. Janzig

STATE OF MINNESOTA     )  
  ) ss.  
COUNTY OF MNOKA     )

On this 11<sup>th</sup> day of November, 2011, before me personally appeared Darren A. Janzig, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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.



[Signature]  
Notary Public

☒ This is the final page of this Assignment.