

PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

| SUBMISSION TYPE:   | NEW ASSIGNMENT           |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
|--|--------------------------|---------------|-----------------|---------------------|--------------------------|---------------|-------------|------------------|------------|----------------|------------|---------------|------------|-------------------------|------------|-------------------------|------------|-------------------|------------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| CONVEYING PARTY DATA   |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Gordon Orvis Munns</td><td>01/04/2010</td></tr><tr><td>Greg Haubrich</td><td>01/04/2010</td></tr><tr><td>David B. Engmark</td><td>01/04/2010</td></tr><tr><td>Joyce Yamamoto</td><td>01/04/2010</td></tr><tr><td>Simon Goldman</td><td>01/04/2010</td></tr><tr><td>William Michael Brosnan</td><td>01/04/2010</td></tr><tr><td>Brad Conrad Tischendorf</td><td>01/04/2010</td></tr><tr><td>Andrew Jason Thom</td><td>01/04/2010</td></tr></tbody></table> |                          | Name          | Execution Date  | Gordon Orvis Munns  | 01/04/2010               | Greg Haubrich | 01/04/2010  | David B. Engmark | 01/04/2010 | Joyce Yamamoto | 01/04/2010 | Simon Goldman | 01/04/2010 | William Michael Brosnan | 01/04/2010 | Brad Conrad Tischendorf | 01/04/2010 | Andrew Jason Thom | 01/04/2010 |
| Name   | Execution Date           |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Gordon Orvis Munns   | 01/04/2010               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Greg Haubrich  | 01/04/2010               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| David B. Engmark   | 01/04/2010               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Joyce Yamamoto   | 01/04/2010               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Simon Goldman  | 01/04/2010               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| William Michael Brosnan  | 01/04/2010               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Brad Conrad Tischendorf  | 01/04/2010               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Andrew Jason Thom  | 01/04/2010               |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| RECEIVING PARTY DATA   |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| <table border="1"><tr><td>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</td></tr></table>   |                          | Name:         | Medtronic, Inc. | Street Address:     | 710 Medtronic Parkway NE | City:         | Minneapolis | State/Country:   | MINNESOTA  | Postal Code:   | 55432      |               |            |                         |            |                         |            |                   |            |
| Name:  | Medtronic, Inc.          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Street Address:  | 710 Medtronic Parkway NE |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| City:  | Minneapolis              |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| State/Country:   | MINNESOTA                |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Postal Code:   | 55432                    |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| PROPERTY NUMBERS Total: 1  |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12608443</td></tr></tbody></table>   |                          | Property Type | Number          | Application Number: | 12608443                 |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Property Type  | Number                   |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Application Number:  | 12608443                 |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| CORRESPONDENCE DATA  |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Fax Number: (248)641-0270<br><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Phone: 248-641-1600  |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Email: gpoland@hdp.com   |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Correspondent Name: Medtronic, Inc.  |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Address Line 1: 710 Medtronic Parkway NE   |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| Address Line 4: Minneapolis, MINNESOTA 55432   |                          |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |
| ATTORNEY DOCKET NUMBER:  | P0028524.00              |               |                 |                     |                          |               |             |                  |            |                |            |               |            |                         |            |                         |            |                   |            |

CH \$40.00 12608443

501056800

PATENT  
REEL: 023733 FRAME: 0514

NAME OF SUBMITTER:

Michael A. Schaldenbrand

**Total Attachments: 5**

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# ASSIGNMENT

Attorney Docket No. P0028524.00

The undersigned, hereinafter referred to collectively as Assignor, has an interest in the invention entitled:

## IMPLANTABLE CO-FIRED ELECTRICAL FEEDTHROUGHS

which is the subject of a United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) ☐ executed on \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_;
- (c) ☒ filed on October 29, 2009, and assigned Serial No. 12/608,443, or PCT International Application No. \_\_\_\_\_;
- (d) ☐ U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_, and  
☐ presently assigned as evidenced at Reel \_\_\_\_\_, Frame \_\_\_\_\_; or
- (e) ☐ entitled above and naming the undersigned inventors in this provisional patent application; and

WHEREAS, Medtronic, Inc., a Corporation organized under and pursuant to the laws of Minnesota having a place of business at 710 Medtronic Parkway NE, Minneapolis, Minnesota 55432, hereinafter referred to as Assignee, is desirous of acquiring Assignor's interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Assignor hereby authorizes an attorney authorized to prosecute this patent application to insert here in parentheses (Application No. 12/608,443, filed October 29, 2009) the filing date and application number of said application when known.

# ASSIGNMENT

Attorney Docket No. P0028524.00

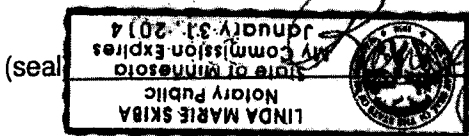
Gordon Orvis Munns  
Gordon Orvis Munns

Date: 04-Jan-2010

State of Minnesota )  
County of Ramsey ) ss.

On this 4th day of January, 2010, before me personally appeared the foregoing individuals, who executed the foregoing instrument and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.

Linda Marie Skiba  
Notary Public,



County, State of Minnesota  
My Commission Expires: Jan 31, 2014

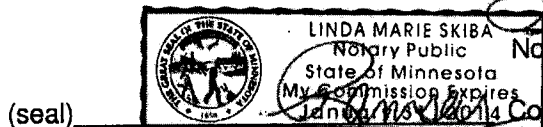
Greg Hawbrich  
Greg Hawbrich

Date: 1-4-10

State of Minnesota )  
County of Ramsey ) ss.

On this 4th day of January, 2010, before me personally appeared the foregoing individuals, who executed the foregoing instrument and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.

Linda Marie Skiba  
Notary Public,



County, State of Minnesota  
My Commission Expires: Jan 31, 2014

# ASSIGNMENT

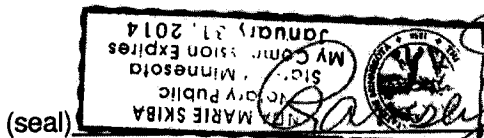
Attorney Docket No. P0028524.00

David B. Engmark  
David B. Engmark

Date: 4 Jan 2010

State of Minnesota )  
County of Ramsey ) ss.

On this 4 day of January, 20 10, before me personally appeared the foregoing individuals who executed the foregoing instrument and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.



Linda Marie Skiba  
Notary Public,

Ramsey County, State of Minnesota

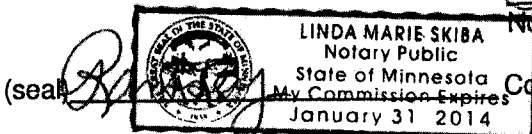
My Commission Expires: Jan 31, 2010

Joyce Yamamoto  
Joyce Yamamoto

Date: 4 Jan 2010

State of Minnesota )  
County of Ramsey ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared the foregoing individuals, who executed the foregoing instrument and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.



Linda Marie Skiba  
Notary Public,

Ramsey County, State of Minnesota

My Commission Expires: Jan 31, 2014

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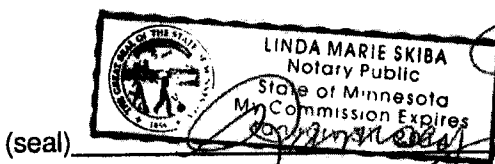
Attorney Docket No. P0028524.00

Simon Goldman  
Simon Goldman

Date: 04 Jan 2010

State of Minnesota )  
County of Ramsey ) ss.

On this 4 day of January, 2010, before me personally appeared the foregoing individuals, who executed the foregoing instrument and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.



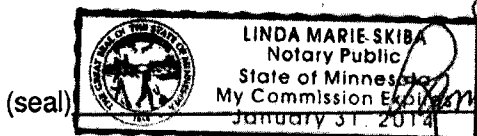
Linda Marie Skiba  
Notary Public,  
County, State of Minnesota  
My Commission Expires: Jan 31, 2014

William Michael Brosnan  
William Michael Brosnan

Date: 04 JAN 2010

State of Minnesota )  
County of Ramsey ) ss.

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Linda Marie Skiba  
Notary Public,  
County, State of Minnesota  
My Commission Expires: Jan 31, 2014

# ASSIGNMENT


Attorney Docket No. P0028524.00

  
**Brad Conrad Tischendorf**

Date: 01 Jan 2010

State of Minnesota )  
County of Ramsey ) ss.

On this 4th day of January, 2010, before me personally appeared the foregoing individuals, who executed the foregoing instrument and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.

(seal)  **LINDA MARIE SKIBA**  
Notary Public,  
State of Minnesota  
My Commission Expires  
January 31, 2014


Linda Marie Skiba  
County, State of Minnesota  
My Commission Expires: Jan 31, 2014

Andrew Jason Thom  
**Andrew Jason Thom**

Date: 04-Jan-2010

State of Minnesota )  
County of Ramsey ) ss.

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(seal)  **LINDA MARIE SKIBA**  
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January 31, 2014

Linda Marie Skiba  
County, State of Minnesota  
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