Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

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

Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway NE
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12608443

CORRESPONDENCE DATA

(248)641-0270 Fax Number:

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

248-641-1600 Phone: 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

PATENT 501056800 REEL: 023733 FRAME: 0514

NAME OF SUBMITTER:	Michael A. Schaldenbrand
Total Attachments: 5 source=Executed Assignment 5074D-00004	14#page2.tif 14#page3.tif 14#page4.tif

PATENT REEL: 023733 FRAME: 0515

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 s	subject o	f 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)	\boxtimes	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

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:

patent application; and

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, reexamination, 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.

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Attorney Docket No. P0028524.00

Maluma	Date: 04- Jan -2010
Gordon Orvis Munns	
On this day of personally appeared the foregoing individual acknowledged to me that they executed the forth.	S. Anuay , 20/0, before me duals who executed the foregoing instrument and who he same of their own free will for the purpose therein set Motalry Public, County, State of
Greg Hambrich	Date: 1 - 4 - 10
On this	duals who executed the foregoing instrument and who he same of their own free will for the purpose therein set
LINDA MARIE SKIBA Notary Public State of Minnesota My Commission Expir	Notary Public, Notary Public, County, State of Minnesota My Commission Expires: 94.131, 2014

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Attorney Docket No. P0028524.00

David B. Engmah	Date: 4 Jan 2010
David B. Engmark	
State of <u>minesota</u>) ss.	
County of Windley)	10
on this day of day of personally appeared the foregoing individuals who executed the same of their forth.	ated the foregoing instrument and who
Notary Public, Notary Public, Notary Public, Notary Public, Steal County, State of	
My Commission	Expires: 9an 31,2016
Joyce Vamamoto	Date: 4 Jan 2010
State of Minnesota)	
County of County of St.	
On this day of personally appeared the foregoing individuals, who executed acknowledged to me that they executed the same of their	uted the foregoing instrument and who own free will for the purpose therein set
forth.	16.1
LINDA MARIE SKIBA Notary Public, Notary Public State of Minnesota County, State of My Commission Expires January 31 2014 My Commission	0 21 2 111

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Attorney Docket No. P0028524.00

State of Minnesota Notary Public, State of Minnesota My Commission Expires State of Minnesota My Commission Expires	Kum Haldul Date: 04 Jun 2010
Country of Cambly Ss. On this day of Cambridge State of 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, Size of Ministers of Country, State of Marie State of	Simon Goldman ,
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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.	County of Vansey)
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William Michael Brosnan State of Manusola On this 4th day of January 31, 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. Notary Public, State of Manusola On this 4th day of January 31, 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, State of Minneston Notary Public, N	forth.
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William Michael Brosnan State of Monneson Ss. County of Samples State of Monneson Ss. County 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 SKIB Notary Public, State of Manneson State of Minneson Explanation Linda Marie Skib Notary Public, State of Minneson Explanation Linda Marie Skib Notary Public, State of Manneson Explanation Linda Marie Skib Notary Public, State of Manneson Explanation Linda Marie Skib Notary Public, State of Manneson Explanation Linda Marie Skib Notary Public, State of Manneson Explanation Linda Marie Skib Notary Public, State of Manneson Explanation Linda Marie Skib Notary Public, State of Manneson Linda Marie Skib Notary Public, Not	My Commission Expires: Jan 31, 2014
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(seal) LINDA MARIE SKIBA Notary Public, Notary Public, State of Minneson My Commission Excitate State of January 31 2014 My Commission Excitate State of Minneson My Commission Excitate State S	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
(seal) Notary Public State of Minnessage My Commission Explain Defunty, State of My Commission Explain January 31 2014	A morio Skiper
January 31, 2014	State of Minnespect
	January 31, 2014

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Attorney Docket No. P0028524.00

Date: 04 Jan 2010
Brad Conrad Tischendorf
State of Minnesota) ss. County of Ramsey) ss.
On this 4 day of, 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, Notary Public, State of Minnesota My Commission Expires January 31, 2014 County, State of One of the contact of th
My Commission Expires: 31, 2014
Andrew Jason Thom Date: 04-Jan-2010
State of hunnesota)
County of <u>Rampey</u>) ss.
On this
forth.
(seal) LINDA MARIE SKIBA Notary Public, Notary Public, State of Minnesota My Commission Expire County, State of My Commission Expires: My Commission Expires: My Commission Expires:
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PATENT REEL: 023733 FRAME: 0520