FORM PTO-1584 1-31-92 P-10124.00

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SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trade Ark Offi

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy the

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1.	Name of conveying party(ies):			2. Name and address of receiving party(ies)				
	Michael R.S. Hill Gary W. King Thomas J. Mullen Xiaohong Zhou		Inte	me: ernal Address: eet Address:	MEDTRON M.S. LC 34	IC, INC 0 nic Parkway	, S	55432
	Additional name(s) of conveying party(ies)	attached? [ ]Yes	[X]No					
3.	Nature of conveyance:							
	·		[X] [] []	Assignment Security Agre Other		[]	Merger Change of	Name
	Execution Date: 10/26/2001 Michael R 10/26/2001 Gary W. k 10/26/2001 Thomas J 10/26/2001 Xiaohong	(ing . Mullen	Add	ditional name(s	,	(es) attache		10
4.	Application number(s) or patent number If this document is being filed together with		n, the execution	n date of the ap	•		,	
Α.	Patent Application No.(s) Additional numbers attached? [ ]Yes [X	]No						
5.	Name and address of party to whom cor concerning document should be mailed		6.	Total number			1	
	Name <u>Beth L. McMahon</u>		7.	Total fee (37	CFR 3.41):		\$40.00	
	Address: MEDTRONIC, INC. 710 Medtronic Parkway M.S. LC 340 Minneapolis, Minnesota 5	5432	8.	[] Enclosed [X] Authorized Deposit Acc	·			
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9.	Statement and signature.	İ						
	To the best of my knowledge and belie original document.  Beth L. McMahon Name of Person Signing	ef, the foregoing	0	makon	t and any att	ached copy	is a true cop	y of the 
OM	B No. 0651-0011 (exp. 4/94)	Total n	umber of pages	s including cov	er sheet, att	achments a	nd document	6
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Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks **Box Assignments** Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of information systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), 1Washington, D.C. 20503.

> **PATENT REEL: 012445 FRAME: 0612**

## **ASSIGNMENT**

WHEREAS, WE, Michael R.S. Hill, Gary W. King, Thomas J. Mullen, and Xiaohong Zhou, are the inventors of CLOSED-LOOP NEUROMODULATION FOR PREVENTION AND TREATMENT OF CARDIAC CONDITIONS for which we have executed an application for filing in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States on October 26, 2001; therefor; and

WHEREAS, <u>MEDTRONIC</u>, <u>INC</u>. a corporation organized and existing under the laws of the <u>State of Minnesota</u> and having a principal place of business at <u>710 Medtronic Parkway N.E., Minneapolis</u>, <u>Minnesota 55432-5640</u>, 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 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 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 or reissues of said Letters Patent that may be granted, 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, I am the sole 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 I have good right and lawful authority to sell and convey the same in the manner herein set forth;

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

ASSIGNMENT Page 1 of 5

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					
On this 26 day of 0000, 2001, before me personally appeared Michael R.S. Hill, 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.					
MOLLY CHLEBECK NOTARY PUBLIC-MINNESOTA My Comm. Expires Jan. 31, 2006					

ASSIGNMENT Page 2 of 5

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letter ratent to Corporation in accordance with this instrument.
IN WITNESS WHEREOF, I have hereunto set my hand on this
Gary W. King
On this 264 day of October , 2001, before me personally appeared 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 he day and year above written.
Molly Chlebich  Notary Public
Notary Public $\smile$
MOLLY CHLEE AND

ASSIGNMENT Page 3 of 5

PATENT REEL: 012445 FRAME: 0615

I hereby request the Honorable Commissione Patent to Corporation in accordance with this instrume	er of Patents and Trademarks to issue the Letters nt.				
IN WITNESS WHEREOF, I have hereunto	o set my hand on this $26^{Tk}$ day of				
	Tem Hullen Thomas J. Müllen				
On this <u>26</u> day of <u>OCtober</u> Thomas J. Mullen, to me known to be the person instrument and acknowledged that he executed the sa					
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.					
MOLLY CHLEBECK NOTARY PUBLIC-MINNESOTA My Comm. Expires Jan. 31, 2006	Molly Chleback  Notary Public				

ASSIGNMENT Page 4 of 5

I hereby request the Honorable Commissioner of Patent to Corporation in accordance with this instrument.	atents and Trademarks to issue the Letters
IN WITNESS WHEREOF, I have hereunto set in October 1, 2001.	my hand on this day of
Xia	aohong Zhou
On this <u>John</u> day of <u>Choken</u> Xiaohong Zhou, to me known to be the person described in and acknowledged that he executed the same as his free act	and who executed the foregoing instrument
IN WITNESS WHEREOF, I have hereunto affixed my the day and year above written.	y official signature with the seal of my office,
MOLLY CHLEBECK NOTARY PUBLIC-MINNESOTA My Comm. Expires Jan. 31, 200	Molly Chlebech tary Public

**RECORDED: 10/26/2001** 

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PATENT REEL: 012445 FRAME: 0617