

08-11-2005

FORM PTO-1584
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P10962.00

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

103059484

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

1. Name of conveying party(ies):

Xiaohong Zhou
Thomas J. Mullen
Michael R.S. HillSteve LaPorte
Gary William King

2. Name and address of receiving party(ies):

Name: MEDTRONIC, INC.
Internal Address: M.S. LC 340
Street Address: 710 Medtronic Parkway
City: MINNEAPOLIS State: MN Zip: 55432

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ OtherExecution Date: 07-11-2005 Xiaohong Zhou 07-19-2005 Steve R. LaPorte Additional name(s) & address(es)
07-01-2005 Thomas J. Mullen 07-01-2005 Gary W. King attached? [] Yes [X] No
07-04-2005 Michael R.S. Hill

4. Application number(s) or patent number(s): 11/116,970

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Paul H. McDowall

Address:

Customer No. 27581

6. Total number of applications and patents involved:..... 1

7. Total fee (37 CFR 3.41):.....\$40.00

8. Deposit Account Number: 13-2546
(Attach duplicate copy of this page)

[] Enclosed

☒ Authorized to be charged to deposit account

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Paul H. McDowall
Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and document: 7

OMB No. 0651-0011 (exp. 4/94)

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Mail Stop Assignment Recordation Services
Commissioner for Patents, P.O. Box 1430
Alexandria, VA 22313-1430

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), 1 Washington, D.C. 20503.

08/10/2005 6T0M11 00000141 132546 11116970

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PAGE 4/10 * RCVD AT 8/2/2005 2:53:19 PM [Eastern Daylight Time] * SVR:USPTO-EFXXF-6/33 * DNIS:2738300 * CSID:7635146982 * DURATION (mm:ss):02:06

PATENT
REEL: 016864 FRAME: 0370

ATTORNEY DOCKET: P10962.00

ASSIGNMENT

WHEREAS, WE, Xiaohong Zhou, Thomas J. Mullen, Michael R.S. Hill, Steve R. Laporte, and Gary W. King, are the inventors of METHODS AND APPARATUS FOR SENSING CARDIAC ACTIVITY VIA NEUROLOGICAL STIMULATION THERAPY SYSTEM OR MEDICAL ELECTRICAL LEAD for which an application for a United States Patent was filed on April 28, 2005, under Serial No. 11/116,970; 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 N.E., Minneapolis, Minnesota 55432-5640, 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 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 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 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 also hereby authorize Corporation and its employees to fill in the serial number and filing date above after this document has been executed;

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 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 we have good right and lawful authority to sell and convey the same in the manner herein set forth, and hereby grant Corporation the right to fill in the serial number and filing date in this document upon their receipt;

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 our 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
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P10962.00

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 11 day of July, 2005.

Xiaohong Zhou
Xiaohong Zhou

STATE OF MINNESOTA

COUNTY OF Anoka

On this 11th day of July, 2005, before me personally appeared Xiaohong Zhou, 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.

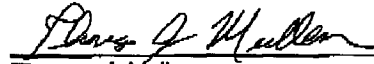
Molly Chlebeck
Notary Public



ASSIGNMENT
Page 2 of 6
P10862.00

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 1ST day of JULY, 2005.


Thomas J. Mullen

STATE OF MINNESOTA

COUNTY OF Anoka

On this 1st day of July, 2005, before me personally appeared Thomas J. Mullen, 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

ASSIGNMENT
Page 3 of 6
P10982.00

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 4 day of July, 2005.


Michael R.S. Hill


WITNESS

K. HEEREN.
Printed Name



WITNESS

M.A. VAN DER PIJL.
Printed Name

ASSIGNMENT
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P10982.00

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 19 day of July, 2005.


Steve R. Laporte

STATE OF MINNESOTA

COUNTY OF Anoka

On this 19th day of July, 2005, before me personally appeared Steve R. Laporte, 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



ASSIGNMENT
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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 1st day of July, 2005.

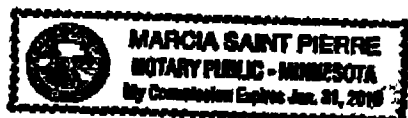
Gary W. King
Gary W. King

STATE OF MINNESOTA

COUNTY OF Anoka

On this 1st day of July, 2005, before me personally appeared Gary W. King, 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.



Marcia Saint Pierre
Notary Public

ASSIGNMENT
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