

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT												
NATURE OF CONVEYANCE:	Corrective Assignment to correct the street address of the Assignee previously recorded on Reel 016868 Frame 0222. Assignor(s) hereby confirms the entire interest.												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Douglas A. Hettrick</td><td>03/29/2005</td></tr><tr><td>Paul D. Ziegler</td><td>03/21/2005</td></tr></tbody></table>		Name	Execution Date	Douglas A. Hettrick	03/29/2005	Paul D. Ziegler	03/21/2005						
Name	Execution Date												
Douglas A. Hettrick	03/29/2005												
Paul D. Ziegler	03/21/2005												
RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Medtronic, Inc.</td></tr><tr><td>Street Address:</td><td>710 Medtronic Parkway</td></tr><tr><td>Internal Address:</td><td>Mail Stop LC340</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	Internal Address:	Mail Stop LC340	City:	Minneapolis	State/Country:	MINNESOTA	Postal Code:	55432
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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>11095790</td></tr></tbody></table>		Property Type	Number	Application Number:	11095790								
Property Type	Number												
Application Number:	11095790												
CORRESPONDENCE DATA													
Fax Number: (763)505-2530 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 763-514-3351													
Email: molly.a.chlebeck@medtronic.com													
Correspondent Name: Medtronic, Inc.													
Address Line 1: 710 Medtronic Parkway													
Address Line 2: Mail Stop LC340													
Address Line 4: Minneapolis, MINNESOTA 55432													
ATTORNEY DOCKET NUMBER:	P20784.00												
NAME OF SUBMITTER:	Daniel G. Chapik												

CH \$40.00 11095790

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PATENT  
REEL: 018970 FRAME: 0724

**Total Attachments: 4**

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ASSIGNMENT RECORDATION FORM COVER SHEET  
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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

1. Name of conveying party(ies):

Douglas A. Hettrick  
Paul D. Ziegler

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 ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 03/29/2005 Douglas A. Hettrick  
03/21/2005 Paul D. Ziegler

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s): 11/095,790

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 ☒ No

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

Name: Daniel G. Chapik

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

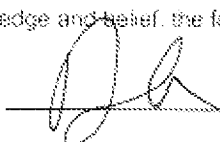
☒ Authorized to be charged to deposit account

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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.

Daniel G. Chapik  
Name of Person Signing

  
Signature

6/2/05  
Date

Total number of pages including cover sheet, attachments and document: 4

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

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Mail documents to be recorded with required cover sheet information to:

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Commissioner for Patents, P.O. Box 1450  
Alexandria, VA 22313-1450

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, PK2-10000, Washington, D.C. 20331, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), 1 Washington, D.C. 20503.

## **ASSIGNMENT**

WHEREAS, WE, Douglas A. Hettrick and Paul D. Ziegler, are the inventors of SYSTEM AND METHOD FOR IMPROVING PACING PARAMETERS USING ACUTE HEMODYNAMIC FEEDBACK DURING DEVICE IMPLANT for which an application for a United States Patent was filed on March 31, 2005, under Serial No. 11/095,790; 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 or 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.

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 29<sup>th</sup> day of MARCH, 2005.

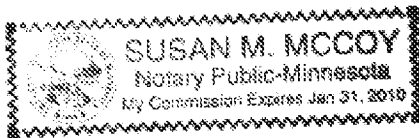
  
Douglas A. Hettrick

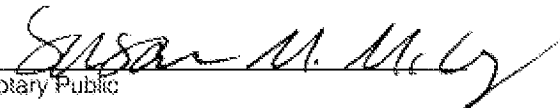
STATE OF MINNESOTA

COUNTY OF ANOKA

On this 29<sup>th</sup> day of March, 2005, before me personally appeared Douglas A. Hettrick, 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

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 21<sup>st</sup> day of MARCH, 2005.

Paul D. Ziegler  
Paul D. Ziegler

STATE OF MINNESOTA

COUNTY OF ANOKA

On this 21<sup>st</sup> day of March, 2005, before me personally appeared Paul D. Ziegler, 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

