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FORM PTO-1584
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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):

Paul A. Iazzo
Timothy G. Laske
Woohyek Choi

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:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other _____

Execution Date: 11/29/2001 Paul A. Iazzo
11/29/2001 Timothy G. Laske
12/03/2001 Woohyek Choi

Additional name(s) & address(es) attached? []Yes [X]No

4. Application number(s) or patent number(s): 09/952/869

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

MAILED
DEC 19 2002

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 Beth L. McMahon
Address: MEDTRONIC, INC.
710 Medtronic Parkway
M.S. LC 340
Minneapolis, Minnesota 55432

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

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

[] Enclosed
[X] Authorized to be charged to deposit account

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

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.

Beth L. McMahon
Name of Person Signing

Beth L McMahon
Signature

Dec 7, 2001
Date

Total number of pages including cover sheet, attachments and document: 5

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

Do not detach this portion

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.

01/16/2002 6TOM11 00000105 132546 09952869

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PATENT
REEL: 012462 FRAME: 0587

ASSIGNMENT

WHEREAS, WE, Paul A. Iazzo, Timothy G. Laske and Woohyek Choi, are the inventors of IMPROVED SYSTEM AND METHOD FOR DETERMINING TISSUE CONTACT OF AN IMPLANTABLE MEDICAL DEVICE WITHIN A BODY 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 September 14, 2001, therefor; 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 "Medtronic," and University of Minnesota, with an address at Office of Patents and Licensing, Minnesota Technology Center, 1100 Washington Avenue South, Suite 201, Minneapolis, Minnesota 55415-1226, hereinafter referred to as "University of Minnesota", 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 Medtronic and University of Minnesota, 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 Medtronic and University of Minnesota 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, we materially represent to Medtronic and University of Minnesota, 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, for the consideration aforesaid, we hereby individually covenant and agree to and with Medtronic and University of Minnesota, 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 Medtronic and University of Minnesota, its successors or assigns, but at Medtronic and University of Minnesota's expense.

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Medtronic and University of Minnesota in accordance with this instrument.

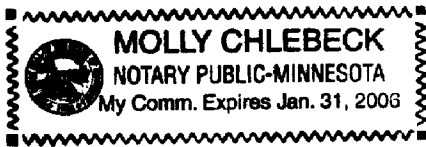
IN WITNESS WHEREOF, I have hereunto set my hand on this 29 day of NOVEMBER, 2001.


Paul A. Iazzo

On this 29th day of November, 2001, before me personally appeared Paul A. Iazzo, 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.


Notary Public



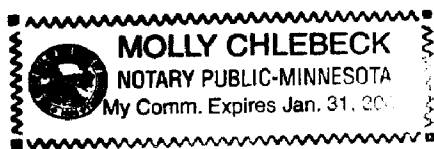
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Medtronic and University of Minnesota in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 29th day of Nov, 2001.


Timothy G. Laske

On this 29th day of November, 2001, before me personally appeared Timothy G. Laske, 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.




Notary Public

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Medtronic and University of Minnesota in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 3rd day of December, 2001.

Woohyeok Choi
Woohyeok Choi

On this 3rd day of December, 2001, before me personally appeared Woohyeok Choi, 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.



[Signature]
Notary Public

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL

In re Application of: Paul A. Iaizzo
For: IMPROVED SYSTEM AND METHOD FOR DETERMINING TISSUE CONTACT OF AN IMPLANTABLE MEDICAL DEVICE WITHIN A BODY
Serial No.: 09/952,869
Filed: September 14, 2001

CERTIFICATE OF MAILING UNDER 37 CFR 1.8: I hereby certify that this **TRANSMITTAL** and the paper(s), as described herein, are being deposited in the U.S. Postal Service, as first class mail, addressed to U.S. Patent and Trademark Office, Assignment Division, Washington, D.C. 20231 on this 10th day of December, 2001.

Molly Chlebeck
Signature
Molly Chlebeck
Printed Name

Commissioner for Patents
Washington, D.C. 20231
Attn: Box Assignment

Sir:

We are transmitting herewith the attached:

- X Assignment
- X Assignment Cover Sheet
- X Return Postcard

Applicant hereby petitions for a _____ month(s) extension of time. If an additional extension of time is required, please consider this a petition therefor.

X Please charge Deposit Account 13-2546 \$40 for Assignment Recordal Fee **for a Total of \$40.00.**

X Applicant believes that no extension of term is required. However, if an extension of time is required, please consider this a petition therefor to provide for the possibility that applicant has inadvertently overlooked the need for an extension of time and charge same to Deposit Account 13-2546.

Dec 7, 2001
Date

Beth L McMahon
Beth L. McMahon
Reg. No. 41,987
MEDTRONIC, INC.
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