

ASSIGNMENT RECORDATION FORM COVER SHEET
PATENTS ONLY

04-27-2001



101691391

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

1. Name of conveying party(ies):

D. Curtis Deno
Lawrence J. Mulligan
Tom D. Bennett
David A. Igel
Michael R.S. Hill

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

4-12-01

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

Name: MEDTRONIC, INC.

Internal Address: M.S. 301

Street Address: 710 MEDTRONIC PARKWAY NORTHEAST

City: MINNEAPOLIS State: MN Zip: 55432-5640

3. Nature of conveyance:

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

Execution Date: D. Curtis Deno - March 12, 2001
Lawrence J. Mulligan - March 13, 2001
Tom D. Bennett - April 2, 2001
David A. Igel - March 15, 2001
Michael R. S. Hill - March 30, 2001
Richard J. Shaw - March 12, 2001

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

4. Application number(s) or patent number(s): 09/750,631

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: BETH L. MCMAHON

Address: MEDTRONIC, INC.
710 Medtronic Parkway N.E.
M.S. LC340
Minneapolis, Minnesota 5543-5640

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

4/9/01
Date

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

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.

PATENT
REEL: 011721 FRAME: 0888

ASSIGNMENT

WHEREAS, WE, D. Curtis. Deno, Lawrence J. Mulligan, Tom D. Bennett, David A. Igel, Michael R. S. Hill and Richard J. Shaw, are the inventors of IMPLANTABLE MEDICAL DEVICE FOR TREATING CARDIAC MECHANICAL DYSFUNCTION BY ELECTRICAL STIMULATION 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 first on 12 March 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 "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 or 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.

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 12th day of March, 2001.

D. Curtis Deno
Curtis D. Deno
D. Curtis Deno *DD*

STATE OF MINNESOTA

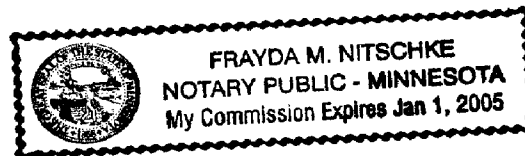
ss.

COUNTY OF ANOKA

On this 12th day of March, 2001, before me personally appeared Curtis D. Deno, 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.

Frayda M. Nitschke
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 13 day of March, 2001.

Lawrence J. Mulligan
Lawrence J. Mulligan

STATE OF MINNESOTA

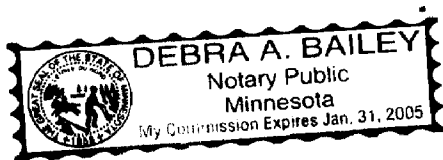
ss.

COUNTY OF ANOKA

On this 13th day of March, 2001, before me personally appeared Lawrence J. Mulligan, 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.

Debra A. Bailey
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 2nd day of April, 2001.

Thomas D. Bennett
Thomas D. Bennett
Tom 03

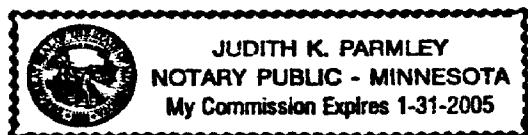
STATE OF MINNESOTA

ss.

COUNTY OF ANOKA

On this 2nd day of April, 2001, before me personally appeared Thomas D. Bennett, 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.

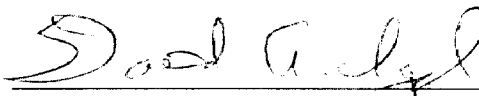
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Judith K. Parmley
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 15th day of March, 2001.


David A. Igel

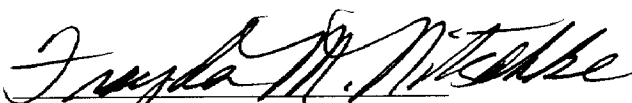
STATE OF MINNESOTA

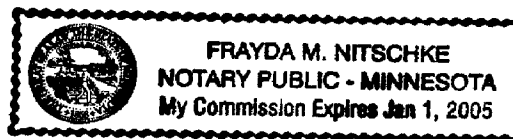
ss.

COUNTY OF ANOKA

On this 15th day of March, 2001, before me personally appeared David A. Igel, 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.

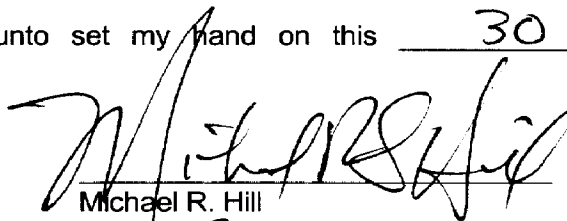
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.


Notary Public



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

IN WITNESS WHEREOF, I have hereunto set my hand on this 30 day of March, 2001.


Michael R. Hill
S.
MRH
0103-30


STATE OF MINNESOTA

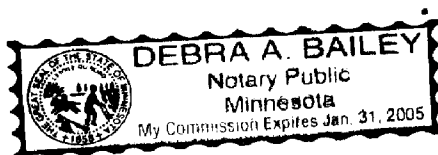
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COUNTY OF ANOKA

On this 30th day of March, 2001, before me personally appeared Michael R. 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.

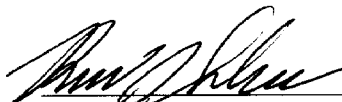
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.


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 12th day of March, 2001.



Richard J. Shaw

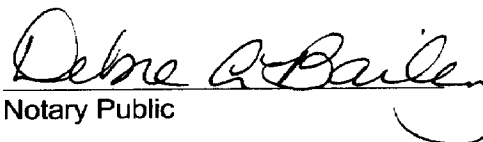
STATE OF MINNESOTA

ss.

COUNTY OF ANOKA

On this 12th day of March, 2001, before me personally appeared Richard J. Shaw, 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

