

08-09-1999

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



101112272

To the Honorable Commissioner of Patents and Trademarks, please return the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jack P. Krichen A. Martin Bradley
Robert Werner Paul Blowers
Timothy Lacroix

2. Name and address of receiving party(ies)

Name: MEDTRONIC, INC.
Internal Address: M.S. 301

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

Street Address: 7000 CENTRAL AVENUE NORTHEAST

3. Nature of conveyance:

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

City: MINNEAPOLIS State: MN Zip: 55432

Execution Date: June 15, 1999; June 21, 1999 and June 23, 1999

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

4. Application number(s) or patent number(s):

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

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

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

Name: Reed A. Duthler
Address: MEDTRONIC, INC.
7000 Central Avenue N.E.
M.S. 301
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.

Reed A. Duthler
Name of Person Signing

Signature

Date

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

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

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

Commissioner of Patents and Trademarks
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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), 1 Washington, D.C. 20503.

08/05/1999 TTRAM1 00000070 132546 09316526
05 FC:581 40.00 CH

ASSIGNMENT

WHEREAS, WE, Jack P. Krichen, A. Martin Bradley, Robert Werner, Paul Blowers and Timothy Lacroix are the inventors of TRIGGER ENHANCED ELECTROGRAM FOR POSITIONING AN IMPLANTABLE MEDICAL DEVICE 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 May 21, 1999; 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 7000 Central Avenue N.E., Minneapolis, Minnesota 55432 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;

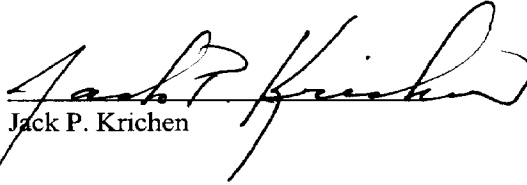
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest 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 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 us had this assignment and sale not been made;

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 joint 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 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.

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 6/21/99 day of _____, 1999.


Jack P. Krichen

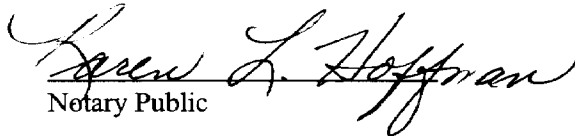
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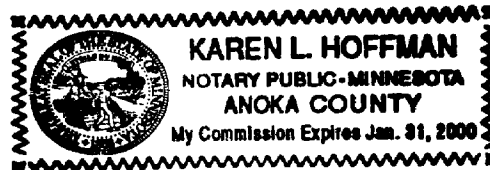
SS.

COUNTY OF ANOKA

On this 21ST day of June, 1999, before me personally appeared Jack P. Krichen, 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 23 day of June, 1999.


A. Martin Bradley

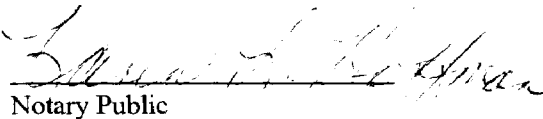
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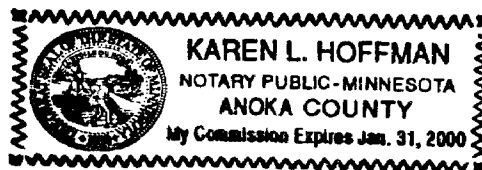
ss.

COUNTY OF ANOKA

On this 23 day of June, 1999, before me personally appeared A. Martin Bradley, 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.

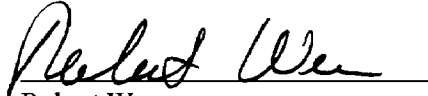
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.


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 15 day of June, 1999.


Robert Werner

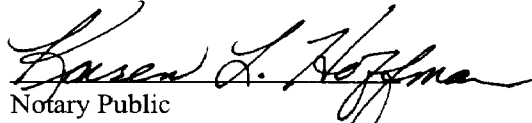
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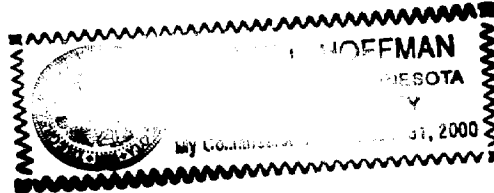
SS.

COUNTY OF ANOKA

On this 15 day of June, 1999, before me personally appeared Robert Werner, 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



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IN WITNESS WHEREOF, I have hereunto set my hand on this 15 day of June, 1999.


Paul Blowers

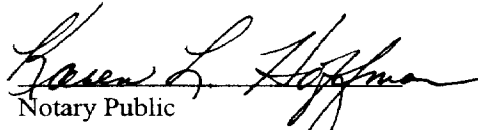
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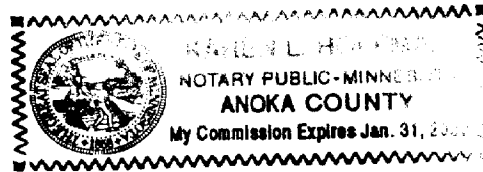
SS.

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On this 15 day of June, 1999, before me personally appeared Paul Blowers, 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.

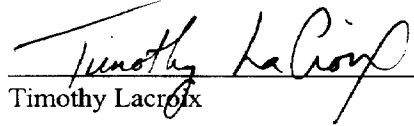
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.


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 15th day of June, 1999.


Timothy Lacroix

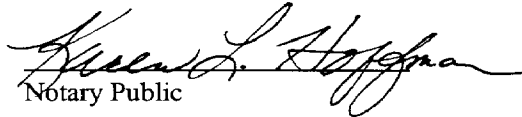
STATE OF MINNESOTA

SS.

COUNTY OF ANOKA

On this 15 day of June, 1999, before me personally appeared Timothy Lacroix, 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

