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06-14-2001

FORM PTO-1584
1-31-92
P-8801.00

AS:



ER SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

101751840

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

1. Name of conveying party(ies):

Donald N. Jensen
Linda L. Ruetz
Catherine R. Condie
Yong Kyun Cho
Scott W. Davie

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

Name: MEDTRONIC, INC.
Internal Address: M.S. 301
Street Address: 7000 CENTRAL AVENUE NORTHEAST
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: January 12, 2001

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

4. Application number(s) or patent number(s): (09/715,637)

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.
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.

Beth L. McMahon
Name of Person Signing

Beth L McMahon May 30, 2001
Signature Date

Total number of pages including cover sheet, attachments and document: 8

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), 1 Washington, D.C. 20503.

(06/13/2001 GTON11 00000191 132546 09715637)
01 FC:581 40.00 CH

PATENT
REEL: 011881 FRAME: 0051

ASSIGNMENT

WHEREAS, WE, Donald N. Jensen, Linda L. Ruetz, Catherine R. Condie, Yong Kyun Cho, Ulla Strobel and Scott Davie, are the inventors of METHOD AND APPARATUS FOR MONITORING HEART RATE AND ABNORMAL RESPIRATION 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 November 17, 2000; 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, 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 of 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 24 day of January, 2001.

Donald N. Jensen
Donald N. Jensen

Maryland
STATE OF ~~MINNESOTA~~

ss.

COUNTY OF Montgomery

On this 24 day of January, 2001, before me personally appeared Donald N. Jensen, 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.

Robert R. Gatling, Jr.
Notary Public

ROBERT R. GATLING, JR.
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires October 7, 2003

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 16 day of Jan., 2001.

Linda L. Ruetz
Linda L. Ruetz

STATE OF MINNESOTA

ss.

COUNTY OF ANOKA

On this 16th day of Jan, 2001, before me personally appeared Linda L. Ruetz, 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.

Kathleen A. Paron
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 24 day of January, 2001.


Catherine R. Condie

STATE OF MINNESOTA


ss.

COUNTY OF ANOKA

On this 24th day of Jan, 2001, before me personally appeared Catherine R. Condie, 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 Jan., 2001.

Yong Kyun Cho
Yong Kyun Cho

STATE OF MINNESOTA

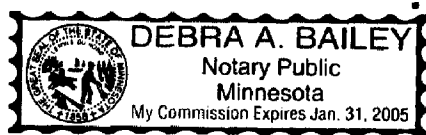
SS.

COUNTY OF ANOKA

On this 15 day of January, 2001, before me personally appeared Yong Kyun Cho, 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 14 day of March 2001.

U. Strobel
Ursula Strobel

STATE OF _____
COUNTY OF+ _____ ss.

On this _____ day of _____, 2001, before me personally appeared Ulla Strobel, 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.

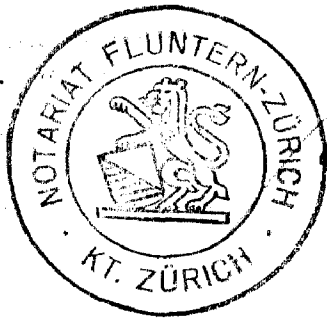
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Notary Public

Official Certification

Seen for authentication of the foregoing signature, affixed in our presence by Ursula Strobel-Osterberger, born 13th day of October ¹⁹⁶² ~~2001~~, citizen of Notariat Fluntern-Zürich, Germany, residing (according to her information) at Streulistrasse 75, 8032 Zurich, who has identified herself by residence permit (of the alien's police) B. Zurich, this 14th day of March 2001

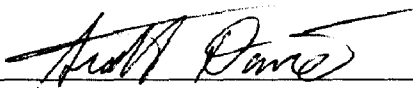
B No. 572
Fee: Fr. 20.--



NOTARIAT FLUNTERN-ZÜRICH
J. Morger
J. Morger, 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 twelfth day of Jan., 2001.



Scott Davie

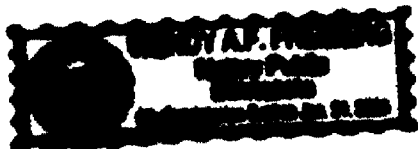
STATE OF MINNESOTA

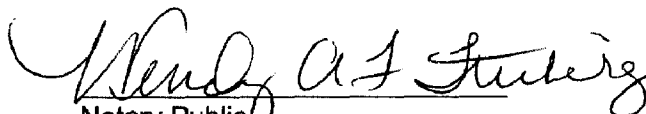
ss.

COUNTY OF ANOKA

On this 12th day of January, 2001, before me personally appeared Scott Davie, 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