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To the Honorable Com

1. Name of conveying party(ies):

GUSTAAF A.P. STOOP
PETER VAN DAM
MATTHIAS ROUW

1-2202
e record the attached original documents or copy thereof.

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

Name: MEDTRONIC, INC.

Internal Address: THOMAS F. WOODS

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

MS LC 340

3. Nature of conveyance:

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

Street Address: 710 MEDTRONIC PARKWAY

City: MINNEAPOLIS State: MN ZIP: 55432

Execution Date: JANUARY 11, 2002

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

4. Application number(s) or patent number(s): 09/994,873 (P-9616)

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)

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

Name: Thomas F. Woods

Address: MEDTRONIC, INC.
710 MEDTRONIC PARKWAY
Minneapolis, Minnesota 55432-5604

Additional numbers attached? [] Yes [x] No

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)

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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.

Thomas F. Woods

Name of Person Signing

Thomas F. Woods
Signature

1-16-02
Date

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PATENT
REEL: 012498 FRAME: 0082

ASSIGNMENT

WHEREAS, WE GUSTAAF STOOP, PETER VAN DAM and MATTIAS ROUW are the joint inventors of DISTINGUISHING VALID AND INVALID CARDIAC SENSES 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 the dates noted below; 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, Minneapolis, Minnesota 55432-5604 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 therefore including my rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions 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 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 02 day of Jan, 2002.

GUUSTAAF STOOP

STATE OF the Netherlands

COUNTY OF Maastricht

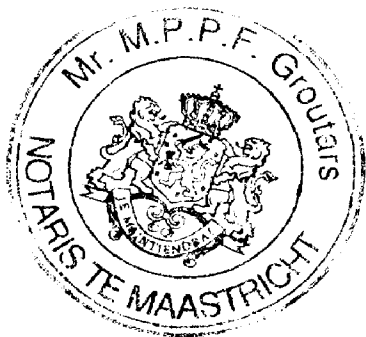
ss.

On this 11th day of januari, 2002, before me personally appeared GUSTAAF STOOP, 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.

Mr M P P F Groutars

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 2 day of januari, 2002.

PETER VAN DAM

STATE OF The Netherlands
COUNTY OF Maastricht ss.



On this 11th day of januari, 2002, before me personally appeared PETER VAN DAM, 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.



Mr M P P F Grootars

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 02 day of January, 2002.

MATTIAS ROUW

STATE OF the Netherlands
COUNTY OF Maastricht ss.

On this 11th day of January, 2002, before me personally appeared MATTIAS ROUW, 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.



Mr. M.P.P.F. Groutars

Notary Public

A large, stylized handwritten signature of Mr. M.P.P.F. Groutars, written in dark ink.