04-23-2002

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

the Honorable Commissioner of Patents and Trademarks:	nal documents or copy thereof.
the Honorable Commissioner of Patents and Trademarks:	2. Name and address of receiving party(ies):
PETER WOHLGEMUTH HENK WESTENDORP HARRY DE BRUYN	Name: <u>MEDTRONIC, INC.</u>
DAVE MUNNEKE	Internal Address: THOMAS F. WOODS
ditional name(s) of conveying party(ies) attached? []	Yes [x]No <u>MS IC 340</u>
Nature of conveyance:	Street Address: 710 MEDTRONIC PARKWAY
[X] Assignment [] Merger	
[] Security Agreement [] Change of Name	City: MINNEAPOLIS State: MN 2IP: 55432
ecution Date: DEC 13, 2001 (WOHLGEMUTH, DE BRUYN) DEC 21, 2001 (MUNNEKE) APRIL 8, 2002 (WESTENDORPO	Additional name(s) & addr c ss(es) attached? []Yes [x]N
Application number(s) or patent number(s): 09/987,77	7 (P-9386)
this document is being filed together with a new appl	lication, the execution date of the application is:
this document is being filed together with a new appl Patent Application No.(s)	lication, the execution date of the application is: B. Patent No.(s)
	B. Patent No.(s)
Patent Application No.(s)	B. Patent No.(s) Additional numbers attached? []Yes [x]No
Patent Application No.(s)	B. Patent No.(s)
Patent Application No.(s) Name and address of party to whom correspondence	B. Patent No.(s) Additional numbers attached? []Yes [x]No 6. Total number of applications and
Patent Application No.(s) Name and address of party to whom correspondence concerning document should be mailed:	B. Patent No.(s) Additional numbers attached? { Yes [x]No 6. Total number of applications and patents involved:
Patent Application No.(s) Name and address of party to whom correspondence concerning document should be mailed: Name:	Additional numbers attached? []Yes [x]No 6. Total number of applications and patents involved:
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:
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:
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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), Washington, D.C. 20503.

ASSIGNMENT

WHEREAS, WE PETER WOHLGEMUTH, HENK WESTENDORP, HARRY DE BRUYN and DAVE MUNNEKE are the joint inventors of IMPLANTABE MEDICAL DEVICE WITH AUTOSENSITIVITY ALGORITHM FOR CONTROLLING SENSING OF CARDIAC SIGNALS 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, <u>MEDTRONIC</u>, INC. a corporation organized and existing under the laws of the <u>State of Minnesota</u> and having a principal place of business at <u>710 Medtronic Parkway</u>, <u>Minneapolis</u>, <u>Minnesota 55432-5604</u> 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.

Page 1 of 5

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 2001.

PETER WOHLGEMUTH

Mokely El

STATE OF the Netherlands

SS.

COUNTY OF Maastricht

On this <u>12t</u> day of <u>April</u>, <u>2002</u>, before me personally appeared <u>PETER WOHLGEMUTH</u>, 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 Motoric

Page 2 of 5

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

of April , 200

HENR WESTENDORP

STATE OF the Netherlands

SS.

COUNTY OF Maastricht

On this <u>12th</u>day of <u>April</u>, <u>2001</u>, before me personally appeared <u>HENK WESTENDORP</u>, 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.

<u>Mr M.P.P.F. Gro</u>utars

Notary Public

Page 3 of 5

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 December 2001.

STATE OF the Netherlands

SS.

COUNTY OF <u>Maastricht</u>

On this 12th day of April , 2002, before me personally appeared HARRY DE BRUYN, 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 www.

Page 4 of 5

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 21 day of the Country, 2001.

DAVE MUNNEKE

STATE OF <u>the Netherlands</u>

SS.

COUNTY OF Maastricht

On this 12th day of ____April__, 2001, before me personally appeared <u>DAVE MUNNEKE</u>, 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 Croutars

Page 5 of 5



HE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL

In re Application of: PETER WOHLGEMUTH ET AL.

For: IMPLANTABLE MEDICAL DEVICE WITH AUTOSENSITIVITY ALGORITHM FOR

CONTROLLING SENSING OF CARDIAC SIGNALS

Serial No.: 09/987,777 Filed: November 16, 2001

Box Assignment

Commissioner of Patents and Trademarks Washington, D.C. 20231

Via Courier

Sir:

We are transmitting herewith the attached:

- X Transmittal (in duplicate)
- X Assignment
- X Recordation Form Cover Sheet (in duplicate)
- X Return Postcard
- Applicant hereby petitions for a 0 month(s) extension of time. If an additional extension of time is required, please consider this a petition therefore.
- <u>X</u> Charge Deposit Account No. 13-2546 the sum of \$40 (Recordal fee).
- Please charge any additional fees or credits to Deposit Account No. 13-2546 which may have been Х overlooked on this Amendment Transmittal with regard to this filing. A duplicate of this transmittal is enclosed.
- Applicant believes that no extension of term is required. However, if an extension of time is X required, please consider this a petition therefore to provide for the possibility that applicant has inadvertently overlooked the need for an extension of time.

4-15-02

Date

Thomas F. Woods Reg. No. 36,726 MEDTRONIC, INC. 710 Medtronic Parkway Minneapolis, Minnesota 55432-5604

Telephone: (763) 514-3652

PATENT REEL: 012803 FRAME: 0841 In re Application of: PETER WOHLGEMUTH ET AL.

For: IMPLANTABLE MEDICAL DEVICE WITH AUTOSENSITIVITY ALGORITHM FOR

CONTROLLING SENSING OF CARDIAC SIGNALS

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- Applicant hereby petitions for a <u>0</u> month(s) extension of time. If an additional extension of time is required, please consider this a petition therefore.
- X Charge Deposit Account No. 13-2546 the sum of \$40 (Recordal fee)
- <u>X</u> Please charge any additional fees or credits to Deposit Account No. 13-2546 which may have been overlooked on this Amendment Transmittal with regard to this filing. A duplicate of this transmittal is enclosed.
- Applicant believes that no extension of term is required. However, if an extension of time is required, please consider this a petition therefore to provide for the possibility that applicant has inadvertently overlooked the need for an extension of time.

4-15-02

RECORDED: 04/17/2002

Date

Thomas F. Woods

Reg. No. 36,726
MEDTRONIC, INC.
710 Medtronic Parkway

Minneapolis, Minnesota 55432-5604

Telephone: (763) 514-3652

PATENT REEL: 012803 FRAME: 0842