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03-28-2002

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To the Honorable Commissioner

102034592

Attached original documents or copy thereof.

1. Name of conveying party(ies):

Steven M. Goetz
Jordan A. Barnhorst
James M. Hartmann

3-15-02

2. Name and address of receiving party(ies)

Name: Medtronic, Inc.

Internal Address:

Street Address: 710 Medtronic Parkway, NE - LC 340

City: Minneapolis State: MN Zip: 55432

Additional Name(s) & address(es) attached? Yes No

PTO
03/15/02
10/099438
JC657 U.S. PTO

Additional name of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: March 12, 2002

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

If this document is being filed together with a new application, the execution data of the application is: March 12, 2002

A. Patent Application No.(s)

10,099438

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Binal J. Patel

Internal Address: Banner & Witcoff, Ltd.

Street Address: Ten South Wacker Drive
Suite 3000

City: Chicago State: IL Zip: 60606

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 19-0733

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

Express Mail No. EV 075513247 US

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.

Kenneth F. Smolik

March 15, 2002

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 3

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

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

03/27/2002 LMUELLER 00000128 190733 10099438

01 FC:581 40.00 CH

ASSIGNMENT

Inventors: Steven M. Goetz
Jordan A. Barnhorst
James M. Hartmann

Application No. _____

Filing Date: _____

Date of Execution of Application: March 12, 2002

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

MEDTRONIC, INC., a corporation of the State of Minnesota

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

AMPLITUDE RAMPING OF WAVEFORMS GENERATED BY AN IMPLANTABLE MEDICAL DEVICE

and identified as:

Attorney Docket No. 11738.00061

in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignees, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignees, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignees, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Client Ref. No. P-10581.00

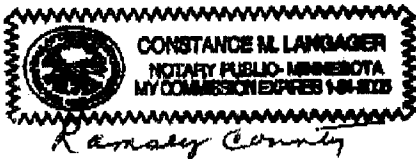
Attorney Docket No. 11738.00062

3/12, 2002
Date

Steven M. Goetz
Steven M. Goetz

State of Minnesota)
County of Anoka) ss:

This 12th day of March 2002, before me personally came the above-named, Steven M. Goetz, came to me personally know as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes herein set forth.



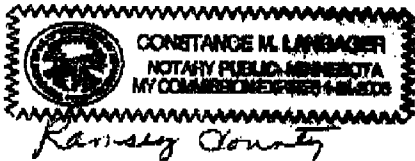
Constance M. Langager
Notary Public

My Commission Expires: 1-31-2005

3-12, 2002
Date
County of Anoka) ss:

Jordan A. Barnhorst
Jordan A. Barnhorst

This 12th day of March 2002, before me personally came the above-named, Jordan A. Barnhorst, came to me personally know as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes herein set forth.



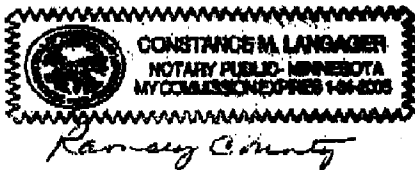
Constance M. Langager
Notary Public

My Commission Expires: 1-31-2005

3-12, 2002
Date
County of Anoka) ss:

James M. Hartmann
James M. Hartmann

This 12th day of March 2002, before me personally came the above-named, James M. Hartmann, came to me personally know as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes herein set forth.



Constance M. Langager
Notary Public

My Commission Expires: 1-31-2005