

08-08-2005

Atty Ref/Docket No.: 279.925US1

Patent and Trademark Office

To the Honorable Commissioner of Patents and



original documents or copy thereof.

103056625

Name and address of receiving party(ies):

1. Name of conveying party(ies):

Gerrard M. Carlson, Ramesh Wariar and Krzysztof Z. Siejko

Name: Cardiac Pacemakers, Inc.

Street Address: 4100 Hamline Avenue North

City: St. Paul State: MN Zip: 55112-5798

Additional name(s) of conveying party(ies) attached?

[] Yes [X] No

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: July 19, 2005, July 19, 2005, July 19, 2005

112959 U.S. PTO
11/189462
072605

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: July 19, 2005, July 19, 2005, July 19, 2005

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: Suneel Arora

Address: Schwegman, Lundberg, Woessner & Kluth, P.A.
P.O. Box 2938
Minneapolis, MN 55402

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. Please charge any additional fees or credit any over payments to our Deposit account number: 19-0743

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.

Suneel Arora/Reg. No. 42,267
Name of Person Signing

Suneel Arora
Signature

July 26, 2005
Date

08/05/2005 ECDOPER 00000068 190743 11189462

01 FC:8021 40.00 DA

Total number of pages including cover sheet: 5

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

Mail Stop Assignment Recordation Services
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS, We, Gerrard M. Carlson, residing at 11653 Nevada Lane, Champlin, MN 55316, and Ramesh Wariar, residing at 11036 Nassau Circle NE, Blaine, MN 55449, and Krzysztof Z. Siejko, residing at 9523 Kirkwood Way, Maple Grove, MN 55369, have made certain new and useful inventions and improvements for which we herewith file an application for Letters Patent of the United States, which is entitled MANAGING PRELOAD RESERVE BY TRACKING THE VENTRICULAR OPERATING POINT WITH HEART SOUNDS, the application having been executed on even date herewith, and/or being identified in the United States Patent and Trademark Office by Application No. / , filed ; and

WHEREAS, Cardiac Pacemakers, Inc., a corporation organized and existing under and by virtue of the laws of the State of Minnesota, and having an office and place of business at 4100 Hamline Avenue North, St. Paul, MN 55112-5798 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

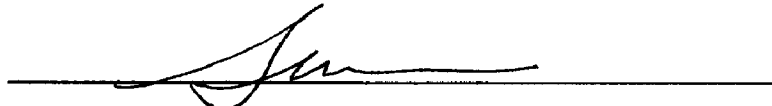
I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date and application number of the application when ascertained. I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 19th day of

July, 2005.

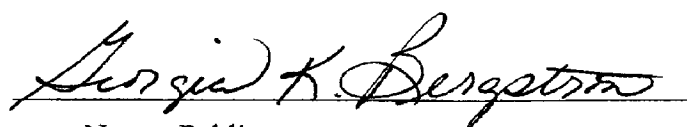
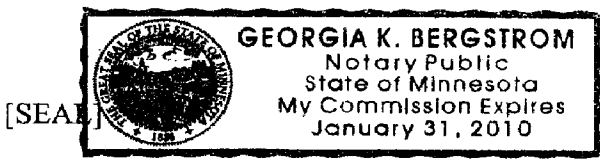


Gerrard M. Carlson

STATE OF MN)
)ss

COUNTY OF Ramsey)

On this 19 day of July, 2005 before me personally appeared Gerrard M. Carlson, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 19th day of

JULY, 2005.

Ramesh Wariar

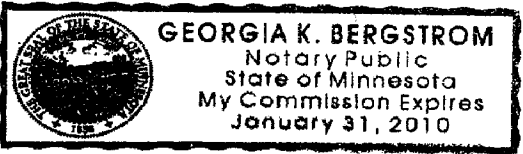
Ramesh Wariar

STATE OF MA)

)ss

COUNTY OF Ramsey)

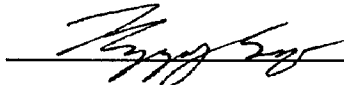
On this 19 day of July, 2005 before me personally appeared Ramesh Wariar, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



[SEAL]

Georgia K. Bergstrom
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 19 day of
July, 2005.




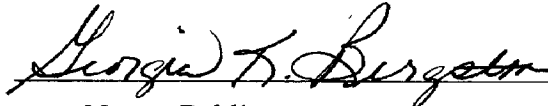
Krzysztof Z. Siejko

STATE OF Minnesota

COUNTY OF Ramsey)ss

On this 19 day of July, 2005 before me personally appeared Krzysztof Z. Siejko, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]  **GEORGIA K. BERGSTROM**
Notary Public
State of Minnesota
My Commission Expires
January 31, 2010



Notary Public