

10-2-06

10-11-2006



103319239

Atty Ref/Docket No.: 279.C41US1

Patent and Trademark Office

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

1. Name of conveying party(ies):

Shantha Arcot-Krishnamurthy, Allan C. Shuros, Jiang Ding, Yinghong Yu, Michael J. Stucky and Christopher Hartemink

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

[ ] Yes [X] No

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

Name: Cardiac Pacemakers, Inc.

Street Address: 4100 Hamline Avenue North

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

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: September 26, 2006, September 27, 2006, September 29, 2006, September 29, 2006, September 29, 2006

113261 U.S. PTO  
 11/541837  
  
 100206

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: September 26, 2006, September 27, 2006, September 29, 2006, September 29, 2006, September 29, 2006, September 29, 2006

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: Timothy E. Bianchi

Address: Schwegman, Lundberg, Woessner & Kluth, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402-0938

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 19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 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.

J. Kevin Parker/Reg. No. 33,024  
Name of Person Signing

Signature

Total number of pages including cover sheet: 40.00

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

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

11541837  
 10/10/2006 NJR/PA  
 01 FC:8021

## ASSIGNMENT

WHEREAS, We, Shantha Arcot-Krishnamurthy, residing at 550 Sandhurst Drive West #108, Roseville, MN 55113, and Allan C. Shuros, residing at 1121 Colette Place, St. Paul, MN 55116, and Jiang Ding, residing at 1237 Countryview Circle, Maplewood, MN 55109, and Yinghong Yu, residing at 5953 Keithson Drive, Shoreview, MN 55126, and Michael J. Stucky, residing at 5954 Highview Place, Shoreview, MN 55126, and Christopher Hartemink, residing at 4335 Galtier Street, Shoreview, MN 55126, 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 METHOD AND APPARATUS FOR IDENTIFICATION OF ISCHEMIC/INFARCTED REGIONS AND THERAPY OPTIMIZATION, 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 26 day of September, 2006.

Shantha

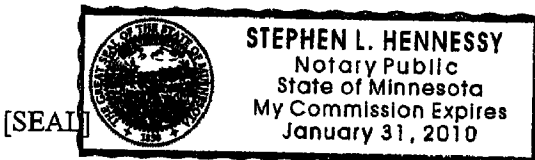
Shantha Arcot-Krishnamurthy

STATE OF Minnesota )

)ss

COUNTY OF Ramsey )

On this 26 day of September, 2006 before me personally appeared Shantha Arcot-Krishnamurthy, 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.



Sgt 2 of

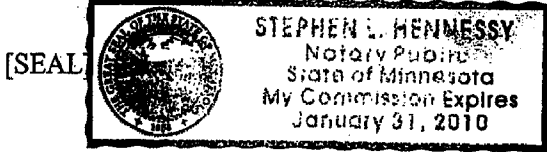
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 27 day of September, 2006.

*Allan Shuros*  
Allan C. Shuros

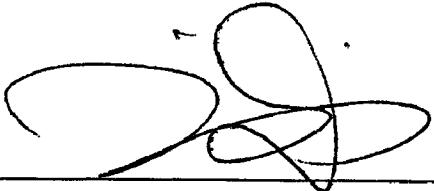
STATE OF Minnesota )  
 )ss  
COUNTY OF Polk )

On this 27 day of September, 2006 before me personally appeared Allan C. Shuros, 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.



*Stephen L. Hennessy*  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 29<sup>th</sup> day of September, 2006.



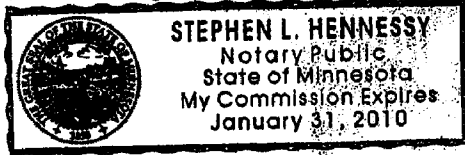
Jiang Ding

STATE OF Minnesota )

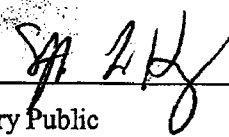
)ss

COUNTY OF Ramsey )

On this 29 day of September, 2006 before me personally appeared Jiang Ding, 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]

  
\_\_\_\_\_  
Notary Public

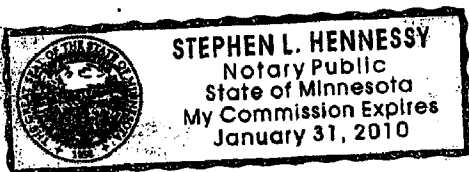
IN TESTIMONY WHEREOF, I have hereunto set my hand this 29<sup>th</sup> day of September, 2006.



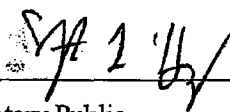
Yinghong Yu

STATE OF Minnesota )  
 )ss  
COUNTY OF Fanny )

On this 29 day of September, 2006 before me personally appeared Yinghong Yu, 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]

  
\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 29 day of  
September, 2006.

Michael J Stucky  
Michael J. Stucky

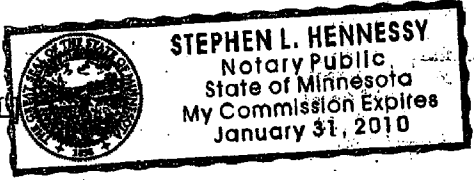
STATE OF Minnesota )

)ss

COUNTY OF Ramsey )

On this 29 day of September, 2006 before me personally appeared Michael J. Stucky, 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]



[Signature]  
Notary Public

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 29 day of  
SEPTEMBER, 2006.

*Christopher Hartemink*

Christopher Hartemink

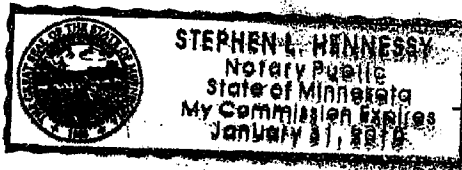
STATE OF Minnesota)

)ss

COUNTY OF Ransom)

On this 29 day of September, 2006 before me personally appeared Christopher Hartemink, 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]



*Stephen L. Hennessy*  
Notary Public