

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

Atty Ref/Docket No.: 279.H54US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Amy Jean Brishben, Aaron R. McCabe, Kevin John Stalsberg, Jacob I. Laughner, Clayton S. Foster, David W. Yost

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: 55112-5798Country: United States of America

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

3. Nature of conveyance:

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

Execution Date: September 13, 2010, September 17,
2010, September 14, 2010, September 20, 2010,
September 15, 2010, September 15, 2010

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:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 12/906,849, filed October 18, 2010

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, P.A.
P.O. Box 2938
Minneapolis, MN 55402-0938

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

[] Enclosed

[X] 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

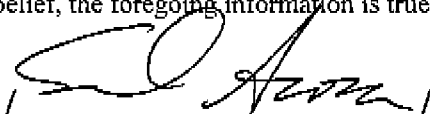
DO NOT USE THIS SPACE

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.

Suneel Arora/Reg. No. 42,267

Name of Person Signing



Signature

October 29, 2010

Date

Total number of pages including cover sheet: 9

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

700449315

PATENT
REEL: 025219 FRAME: 0036

CH \$40.00 190743 12906849

Attorney Docket No. 279.H54US1
Client Ref. No. 09-084

ASSIGNMENT

WHEREAS, We, Amy Jean Brisben, residing at 1214 James Ave., Saint Paul, MN 55105, and Aaron R. McCabe, residing at 1901 Emerson Avenue South, # 108, Minneapolis, MN 55403, and Kevin John Stalsberg, residing at 2829 North Riviera Drive, White Bear Lake, MN 55110, and Jacob I. Laughner, residing at 6101 Washington Blvd, Unit 101, St. Louis, MO 63112, and Clayton S. Foster, residing at 622 140th Lane NW, Andover, MN 55304, and David W. Yost, residing at 5901 106th Ave. N., Brooklyn Park, MN 55443, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent entitled ESTIMATION OF DEDICATED BIPOLAR PACING VECTOR THRESHOLD;

WHEREAS, We hereby authorize and request the attorneys, representing Cardiac Pacemakers, Inc. on this application, at Schwegman, Lundberg & Woessner, P.A., located at 121 South Eighth Street, Suite 1600, Minneapolis, MN 55402, to insert here in parentheses (Ser. No. 12/906,849 ; Filing Date: October 18, 2010) the filing date and application number of said application when known.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Cardiac Pacemakers, Inc. (the "Assignee"), a corporation of the State of Minnesota, having a place of business at 4100 Hamline Avenue North, St. Paul, MN 55112-5798, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 45458 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

Additional Application Information

U.S. Provisional Application Serial No. 61/253,885, filed on October 22, 2009.

ASSIGNMENT

Client Ref. No. 09-084

Docket No: 279,H54US1

Assignors: Amy Jean Brisben et al.

Title: ESTIMATION OF DEDICATED BIPOLAR PACING VECTOR THRESHOLD

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No International or foreign claim for priority is being made at this time.

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

ASSIGNMENT

Client Ref. No. 09-084

Docket No: 279.H54US1

Assignors: Amy Jean Brisben et al.

Title: ESTIMATION OF DEDICATED BIPOLAR PACING VECTOR THRESHOLD

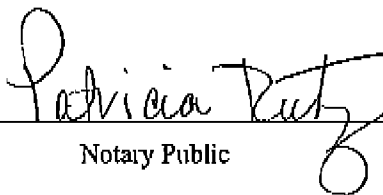
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IN TESTIMONY WHEREOF, I have hereunto set my hand this 13 day ofSeptember, 2010

Amy Jean Brisben

STATE OF MNCOUNTY OF RAMSEY)ss

On this 13 day of Sept., 2010 before me personally appeared Amy Jean Brisben, 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

ASSIGNMENT

Client Ref. No. 09-084

Assignors: Amy Jean Brisben et al.

Title: ESTIMATION OF DEDICATED BIPOLAR PACING VECTOR THRESHOLD

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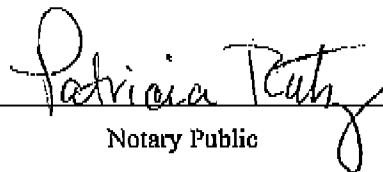
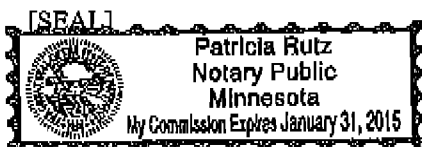
Docket No: 279.H54US1

IN TESTIMONY WHEREOF, I have hereunto set my hand this 17th day ofSeptember, 2010.

Aaron R. McCabe

STATE OF MNCOUNTY OF RAMSEY)ss

On this 17 day of September, 2010 before me personally appeared Aaron R. McCabe, 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

ASSIGNMENT

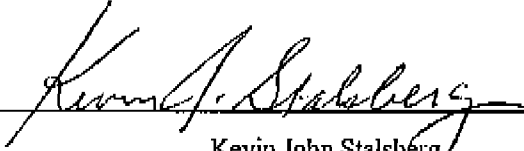
Client Ref. No. 09-084

Assignors: Amy Jean Brishart et al.

Title: ESTIMATION OF DEDICATED BIPOLAR PACING VECTOR THRESHOLD

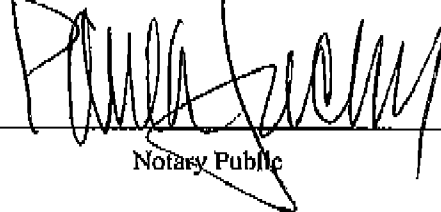
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Docket No: 279.H54US1

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day ofSeptember, 2010.

Kevin John StalsbergSTATE OF MNCOUNTY OF Ramsay)ss

On this 14 day of Sept., 2010 before me personally appeared Kevin John Stalsberg, 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

ASSIGNMENT

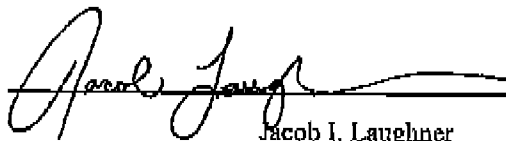
Client Ref. No. 09-084

Docket No: 279.H54US1

Assignors: Amy Jean Brisben et al.

Title: ESTIMATION OF DEDICATED BIPOLAR PACING VECTOR THRESHOLD

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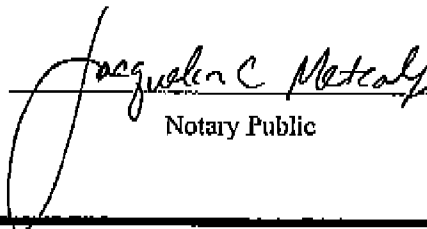
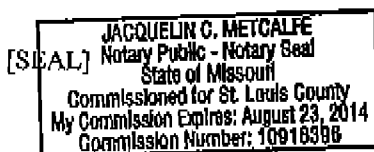
IN TESTIMONY WHEREOF, I have hereunto set my hand this 20 day ofSeptember, 2010.

Jacob I. LaughnerSTATE OF Missouri)

)ss

COUNTY OF St. Louis)

On this 20 day of Sept, 2010 before me personally appeared Jacob I. Laughner, 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

ASSIGNMENT

Docket No: 279.H54US1

Client Ref. No. 09-084

Assignors: Amy Jean Brisben et al.

Title: ESTIMATION OF DEDICATED BIPOLAR PACING VECTOR THRESHOLD

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 15th day ofSeptember, 2010.Clayton S. Foster

Clayton S. Foster

STATE OF

MN

COUNTY OF

Ramsey)ss

On this 15 day of Sept, 2010 before me personally appeared Clayton S. Foster, 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.

Paula Suchy
Notary Public

ASSIGNMENT

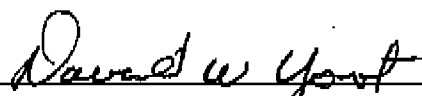
Client Ref. No. 09-084

Assignors: Amy Jean Brisben et al.

Title: ESTIMATION OF DEDICATED BIPOLAR PACING VECTOR THRESHOLD

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Docket No: 279.H54US1

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15 day ofSept., 20 10.

David W. Yost

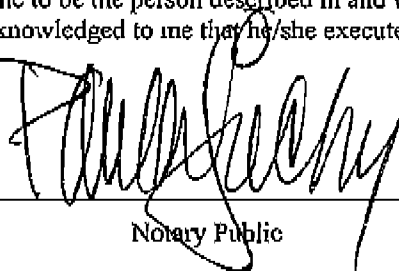
STATE OF

MN

COUNTY OF

Ramsey)ss

On this 15 day of Sept., 20 10 before me personally appeared David W. Yost, 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