

RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: 279.H56US1

Patent and Trademark Office

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

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1. Name of conveying party(ies):

Shantha Arcot-Krishnamurthy, Shibaji Shome and  
Yanling Dong

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

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ OtherExecution Date: September 21, 2010, September 16,  
2010, September 21, 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. 12/892,378, filed September 28, 2010

Additional numbers attached? ☐ Yes ☒ No5. 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 55402-09386. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account  
19-07438. Please charge any additional fees or credit any over  
payments to our Deposit Account No.: 19-0743

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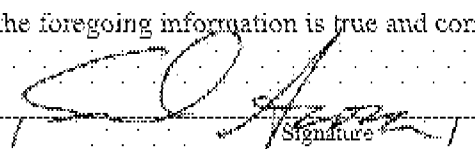
**DO NOT USE THIS SPACE**

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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 22, 2010

Date

Total number of pages including cover sheet: 6

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

700448750

PATENT  
REEL: 025185 FRAME: 0367

CH \$40.00 190743 12892378

Attorney Docket No. 279.H56US1

Client Ref. No. 09-086

**ASSIGNMENT**

WHEREAS, We, Shantha Arcot-Krishnamurthy, residing at 134 Hemlock Place, Vadnais Heights, MN 55127, and Shibaji Shome, residing at 3036 W. Lake Street, #404, Minneapolis, MN 55416, and Yanting Dong, residing at 295 Oak Hill Drive, Shoreview, MN 55126, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent entitled LEFT ATRIAL SENSE OR CAPTURE DETECTION FROM CORONARY SINUS;

WHEREAS, We hereby authorize and request the attorneys, representing Cardiac Pacemakers, Inc. on this application, at Schweggman, Lundberg & Woessner, P.A., located at 121 South Eighth Street, Suite 1600, Minneapolis, MN 55402, to insert here in parentheses (Ser. No. 12/892,378 ; Filing Date: September 28, 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. 61/253,744, filed on October 28, 2009.*

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

**PATENT****REEL: 025185 FRAME: 0368**

## ASSIGNMENT

Docket No: 279.H56US1

Client Ref. No. 09-086

Assignors: Shanika Aveni-Krishnamoorthy et al.

Title: LEFT ATRIAL SENSE OR CAPTURE DETECTION FROM CORONARY SINUS

Page 2 of 5

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:

PATENT

REEL: 025185 FRAME: 0369

## ASSIGNMENT

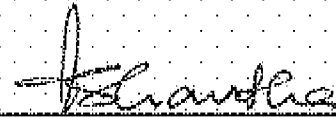
Client Ref. No. 07-086

Assignors: Shantha Arcot-Krishnamurthy et al.

Title: LEFT ATRIAL SENSE OR CAPTURE DETECTION FROM CORONARY SINUS

Page 3 of 5

Docket No: 279.H560S1

IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day ofSEPTEMBER, 20 10.

Shantha Arcot-Krishnamurthy

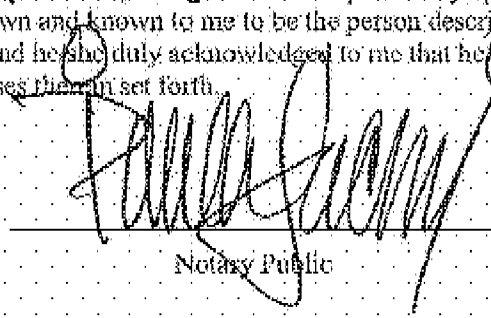
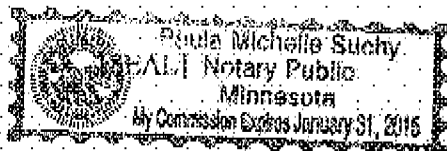
STATE OF

MN

COUNTY OF

RAMSEY

On this 24 day of Sept, 20 10 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.

  
Notary Public

PATENT

REEL: 025185 FRAME: 0370

## ASSIGNMENT

Client Ref. No. 09-086

Assignors: Shantha Arcon-Krishnamurthy et al.

Title: LEFT ATRIAL SENSE OR CAPTURE DETECTION FROM CORONARY SINUS

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Docket No: 279.H56093

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16 day ofSeptember, 2010

Shibaji Shome

STATE OF

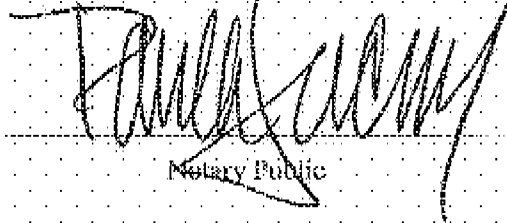
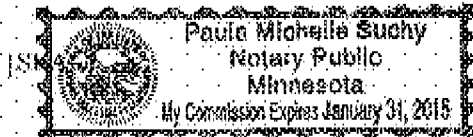
MN

COUNTY OF

Ramsey

)ss

On this 16 day of Sept, 2010 before me personally appeared Shibaji Shome, 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

PATENT

REEL: 025185 FRAME: 0371

## ASSIGNMENT

Client Ref. No. 09-086

Assignors: Shunika Aroon-Krishnamurthy et al.

Title: LEFT ATRIAL SENSE OR CAPTURE DETECTION FROM CORONARY SINUS

Page 5 of 5

Docket No: 279.H56U31

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21<sup>st</sup> day of  
September, 2010.

[Signature]  
Yanting Dong

STATE OF

COUNTY OF

MN  
Ramsey

On this 21 day of Sept., 2010 before me personally appeared  
Yanting Dong, 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.



[Signature]  
Notary Public