

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5128576

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	NUNC PRO TUNC ASSIGNMENT
<b>EFFECTIVE DATE:</b>	10/09/2009

**CONVEYING PARTY DATA**

Name	Execution Date
SANJIV M. NARAYAN	04/21/2014

**RECEIVING PARTY DATA**

<b>Name:</b>	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
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<b>Postal Code:</b>	94607-5200

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15177317

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<b>ATTORNEY DOCKET NUMBER:</b>	UC-TOP.10103-I
<b>NAME OF SUBMITTER:</b>	ELEANOR MUSICK
<b>SIGNATURE:</b>	/eleanor musick/
<b>DATE SIGNED:</b>	09/06/2018

**Total Attachments: 3**

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**NUNC PRO TUNC ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR,

**Sanjiv M. Narayan**

effective as of the respective filing dates of the patent applications identified in Attachment A, did hereby sell, assign and transfer to ASSIGNEE, The Regents of the University of California, having a place of business at 1111 Franklin Street, 5<sup>th</sup> Floor, Oakland, California 94607, and their successors, assigns and legal representatives of the ASSIGNEES all of his right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the patent applications listed in Attachment A, all listing the above-named person as inventor, and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained from said invention by the above application or any continuation, divisional, continuation-in-part, conversion to 35 U.S.C. 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR hereby states that he believes himself to be an original inventor or an original joint inventor of a claimed invention in the subject patent applications, and that said subject patent applications have been made or authorized to be made by him. ASSIGNOR hereby acknowledges that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment. For any patent application listed in Attachment A that has previously been the subject of an assignment executed by ASSIGNOR, this assignment is confirmatory only, and no modification of such assignment is intended hereby.

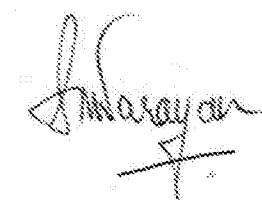
ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the ASSIGNOR requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, The Regents of the University of California.

Executed this

21st day of April, 2014



Digitally signed by Sanjiv Narayan  
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ATTACHMENT A

APPL. NO.	PATENT/ PUBL. NO.	FILING DATE	COUNTRY /OFFICE	TITLE
61/481,512	--	05/02/2011	US	System and Method For Targeting Rhythm Disorders Using Shape Ablation
61/481,607	--	05/02/2011	US	System and Method For Reconstructing Cardiac Activation Information
61/569,132	--	12/09/2011	US	System and Method For Targeting Rhythm Disorders Using Shape Ablation
13/081,411	2011/0251505	04/06/2011	US	Methods, System and Apparatus for the Detection, Diagnosis and Treatment of Biological Rhythm Disorders
13/217,123	8,165,666	08/24/2011	US	System and Method For Reconstructing Cardiac Activation Information
13/438,534	8,594,777	04/03/2012	US	System and Method For Reconstructing Cardiac Activation Information
13/462,534	2013/0006131	05/04/2012	US	System and Method For Targeting Rhythm Disorders Using Shape Ablation
13/470,705	2013/0150742	05/15/2012	US	System and Method For Targeting Rhythm Disorders Using Shape Ablation
13/559,868	2013/0150740	7/27/2012	US	System and Method of Identifying Sources for Biological Rhythms
13/840,334	2013/0226016	03/15/2013	US	System and Method For Reconstructing Cardiac Activation Information
13/844,562		03/15/2013	US	System and Method to Define Drivers of Sources Associated with Biological Rhythm Disorders
14/074,619		11/07/2013	US	System and Method For Reconstructing Cardiac Activation Information
14/077,250		11/12/2013	US	System and Method For Reconstructing Cardiac Activation Information
14/137,929		12/20/2013	US	Method and System for Detection of Biological Rhythm Disorders
			US	System and Method to Define Drivers of Sources Associated with Biological Rhythm Disorders
PCT/US12/29935	2012/151008	03/21/2012	WIPO	System and Method For Reconstructing Cardiac Activation Information
PCT/US12/36157	2012/151301	05/02/2012	WIPO	System and Method For Targeting Rhythm Disorders Using Shape Ablation
PCT/US14/29616		03/14/2014	WIPO	System and Method For Reconstructing Cardiac Activation Information
PCT/US14/29645		03/14/2014	WIPO	System and Method to Define Drivers of Sources Associated with Biological Rhythm Disorders