01/17/2017 504181368

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4229001

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PRAMODSINGH HIRASINGH THAKUR	01/06/2017
QI AN	01/05/2017
KEITH R. MAILE	01/06/2017
HOWARD D. SIMMS JR	01/05/2017
JOHN D. HATLESTAD	01/06/2017
BIN MI	01/06/2017

RECEIVING PARTY DATA

Name:	CARDIAC PACEMAKERS, INC.
Street Address:	4100 HAMLINE AVENUE NORTH
City:	ST. PAUL
State/Country:	MINNESOTA
Postal Code:	55112-5798

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15407991

CORRESPONDENCE DATA

Fax Number: (612)339-3061

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 612-373-6900 uspto@slwip.com Email:

SCHWEGMAN LUNDBERG & WOESSNER/BSC **Correspondent Name:**

PO BOX 2938 Address Line 1:

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	279.N49US1
NAME OF SUBMITTER:	KATHLEEN GANNON
SIGNATURE:	/Kathleen Gannon/
DATE SIGNED:	01/17/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 040990 FRAME: 0536

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Total Attachments: 4

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PATENT REEL: 040990 FRAME: 0537

Attorney Docket No.: 279.N49US1

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Client Ref No. 15-0372US01

Title: HARNESSING S1 VARIABILITY FOR AF

DETECTION

ASSIGNMENT

	WHEREAS, I, Pramods	ingh Hirasingh Thakw	r, Qi An, Bin Mi, Kei	th R. Maile, Howard D. Simms Jr., John
D. Hatles	tad, have invented certa	in new and useful imp	rovements as describe	ed in U.S. patent application, entitled
HARNES	SSING S1 VARIABILIT	Y FOR AF DETECT	ION, the application !	having been executed on even date
herewith,	and/or being identified	in the United States Pa	atent and Trademark	Office ("USPTO") by Application
No. 15/4	07,991 , filed	January 17, 2017	("Invention"); and	

WHEREAS, Cardiac Pacemakers, Inc., a Corporation of the State of Minnesota, and having an address of 4100 Hamline Avenue North, St. Paul, MN 55112-5798 (together with its successors and assigns, the "Assignee"), seeks to memorialize its ownership of the entire right, title and interest in and to the Invention;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, I transfer to Assignee my entire right, title, and interest in and to the Invention, including all inventions disclosed or claimed in the above-identified patent application, including any improvements thereof, any corresponding domestic applications (e.g., provisional, non-provisional, divisional, continuation, continuation-in-part, reexamination, and/or reissue patent), any corresponding foreign applications, all patents issuing thereon, or other patent application based off or claiming priority to the above-identified patent application, and all rights and benefits under any applicable treaty or convention. I authorize the USPTO (or foreign equivalent thereof) to issue any patent (or similar legal protection) to the Assignee.

I authorize the Assignee to insert in this instrument the filing date and application number of the application when ascertained. I hereby authorize the Assignee (or its designee) to apply for patent (or similar legal protection) in its own name if desired, in any and all countries.

I represent to the Assignee that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I agree when requested, without additional consideration, but at the expense of the Assignee, to provide additional reasonable assistance necessary to memorialize this assignment, to execute all oaths, declarations, assignments, powers of attorney and other papers necessary to perfect and vest title to the rights assigned herein to the Assignee; and will render all assistance in filing, obtaining, maintaining, and enforcing any patent (or similar legal protection) on the Invention in any and all countries.

DECLARATION

I have reviewed and understand the contents of the above-identified patent application including the claims, and I believe I am an original or an original joint inventor of a claimed invention in the above-identified patent application. The above-identified patent application was made or authorized to be made by me. I am aware of and acknowledge my duty to disclose to the USPTO all information known to me to be material to patentability of the claims in the above-identified patent application. I acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Pramodsingh Hirasingh Thakur

Date | 6 | 17

Keith R. Maile

Date 1/6/7

Attorney Docket No.: 279.N49US1

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Client Ref No. 15-0372US01

Title: HARNESSING S1 VARIABILITY FOR AF

DETECTION

Oi An

Date 1/5/17

Bin Mi

Howard D. Simms

Date ____

ohn D. Hatlestad

Date 1/6/17

Attorney Docket No.: **279.N49US1**

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Client Ref No. 15-0372US01

Title: HARNESSING S1 VARIABILITY FOR AF DETECTION

<u>ASSIGNMENT</u>	
WHEREAS, I, Pramodsingh Hirasingh Thakur, Q D. Hatlestad, have invented certain new and useful improv HARNESSING S1 VARIABILITY FOR AF DETECTION herewith, and/or being identified in the United States Pater No. <u>15/407,991</u> , filed <u>January 17, 2017</u> ("	N, the application having been executed on even date and Trademark Office ("USPTO") by Application
WHEREAS, Cardiac Pacemakers, Inc., a Corpora 4100 Hamline Avenue North, St. Paul, MN 55112-5798 (1) seeks to memorialize its ownership of the entire right, title	
NOW, THEREFORE, in exchange for good and vare hereby acknowledged, I transfer to Assignee my entire all inventions disclosed or claimed in the above-identified any corresponding domestic applications (e.g., provisional in-part, reexamination, and/or reissue patent), any corresponding priority to the benefits under any applicable treaty or convention. I authorany patent (or similar legal protection) to the Assignee.	patent application, including any improvements thereof, non-provisional, divisional, continuation, continuation-ording foreign applications, all patents issuing thereon, or e above-identified patent application, and all rights and
I authorize the Assignee to insert in this instrumer when ascertained. I hereby authorize the Assignee (or its or in its own name if desired, in any and all countries.	nt the filing date and application number of the application designee) to apply for patent (or similar legal protection)
I represent to the Assignee that I have not and sha conflicting with this Assignment. I agree when requested the Assignee, to provide additional reasonable assistance n oaths, declarations, assignments, powers of attorney and of assigned herein to the Assignee; and will render all assistant patent (or similar legal protection) on the Invention in any	ecessary to memorialize this assignment, to execute all ther papers necessary to perfect and vest title to the rights nee in filing, obtaining, maintaining, and enforcing any
<u>DECLARATION</u>	
I have reviewed and understand the contents of the claims, and I believe I am an original or an original joint in patent application. The above-identified patent application of and acknowledge my duty to disclose to the USPTO all of the claims in the above-identified patent application. I a declaration is punishable under 18 U.S.C. 1001 by fine or in	n was made or authorized to be made by me. I am aware information known to me to be material to patentability acknowledge that any willful false statement made in this
Pramodsingh Hirasingh Thakur	Keith R. Maile
Date	Date

PATENT REEL: 040990 FRAME: 0540

Attorney Docket No.: 279.N49US1

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Client Ref No. 15-0372US01

Title: HARNESSING S1 VARIABILITY FOR AF DETECTION

	Howal D. S.
Qi An	Howard D. Simms, 37.
Date	Date 5 Jan 2017
Bin Mi	John D. Hatlestad
Date	Date

PATENT REEL: 040990 FRAME: 0541

RECORDED: 01/17/2017