PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES O. GILKERSON	12/20/2013
KENNETH P. HOYME	12/12/2013
JAMES R. KALGREN	12/12/2013
DAVID L. PERSCHBACHER	12/12/2013
LES N. PETERSON	12/12/2013

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14163087

CORRESPONDENCE DATA

Fax Number:

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: 6127464780

Email: Docketing@pdsdlaw.com

Correspondent Name: PAULY, DEVRIES SMITH & DEFFNER, L.L.C.

Address Line 1: 121 SOUTH 8TH STREET Address Line 2: TCF TOWER, SUITE 900

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	115.0168USU1
NAME OF SUBMITTER:	KATE DEVRIES SMITH
SIGNATURE:	/Kate DeVries Smith/
DATE SIGNED:	05/22/2014

Total Attachments: 6

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Attorney Docket No.: 115.0168USU1

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Client Ref. No.: 11-050US02

Title: SYSTEMS AND METHODS TO IDENTIFY CARDIAC DYSYNCHRONY

ASSIGNMENT

	WHEREAS, I, James O. Gilko	erson, Kenneth P. Hoyme, James R. Kalgren, David L. Perschbacher and Les
N. Pet	erson, have invented certain new	and useful improvements as described in U.S. patent application, entitled
SYST.	EMS AND METHODS TO IDE	NTIFY CARDIAC DYSYNCHRONY, the application being filed herewith
and be	ing identified in the United State	s Patent and Trademark Office ("USPTO") by Application
No	, filed	, ("Invention"), having an attorney docket no. 115,0168USU1; and

WHEREAS, Cardiac Pacemakers, Inc., a Corporation of the State of MN, and having an address of 4100 Hamline Avenue North, St. Paul, MN 55112, United States of America (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.

Attorney Docket No.: 115.0168USU1

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Client Ref. No.: 11-050US02

Title: SYSTEMS AND METHODS TO IDENTIFY CARDIAC DYSYNCHRONY

James O. Gilkerson Date 12/20/2013	Kenneth P. Hoyme Date
James R, Kalgren	David L. Perschbacher
Date	Date
Les N. Peterson	
Date	

PATENT

REEL: 032948 FRAME: 0336

Attorney Docket No.: 115.0168USU1

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and	being identified in the United States Patent and Trademark Office ("USPTO") by Application
No.	

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Attorney Docket No.: 115.0168USU1 Page2 of 2
Client Ref. No.: 11-050US02
Title: SYSTEMS AND METHODS TO

IDENTIFY CARDIAC DYSYNCHRONY

	LAR P. Home
James O. Gilkerson	Kenneth P. Hoyme
Date	Date 12/12/2013
James R. Kälgren	David L. Perschbacher
Date	Date
Les N. Peterson	
Data	

Attorney Docket No.: 115.0168USU1

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Page2 of 2

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James O. Gilkerson

Date _____

James R. Kalgren

Date 12-12-13

Les N. Peterson

Date 12-12-13

Kenneth P. Hoyme

Date _____

David L. Perschbacher

Date 12/12/13

PATENT REEL: 032948 FRAME: 0340

RECORDED: 05/22/2014