

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Allan C. Shuros	03/07/2007
Donald L. Hopper	03/06/2007
Michael J. Kane	03/20/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Cardiac Pacemakers, Inc.
<b>Street Address:</b>	4100 Hamline Avenue North
<b>City:</b>	St. Paul
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55112
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	11613740
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(612)746-4781
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<b>Phone:</b>	612.746.4782
<b>Email:</b>	jnickel@pdsdlaw.com
<b>Correspondent Name:</b>	Pauly, DeVries Smith & Deffner
<b>Address Line 1:</b>	45 South Seventh Street
<b>Address Line 2:</b>	Plaza VII, Suite 3000
<b>Address Line 4:</b>	Minneapolis, MINNESOTA 55402-1630
<b>ATTORNEY DOCKET NUMBER:</b>	115.0009US01
<b>NAME OF SUBMITTER:</b>	Mark E. Deffner

Total Attachments: 5  
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## ASSIGNMENT

WHEREAS, We, Allan C. Shuros, residing at 1121 Colette Place, St. Paul, MN 55116, and Donald L. Hopper, residing at 11761 99<sup>th</sup> Avenue North, Maple Grove, MN 55369, and Michael J. Kane, residing at 5173 Marquess Trail, Lake Elmo, MN 55042; have invented certain new and useful inventions and improvements for which we herewith file an application for Letters Patent of the United States, which is entitled RATE ADAPTIVE CARDIAC PACING SYSTEMS AND METHODS, the application being identified in the United States Patent and Trademark Office by Application No. 11/613,740, filed December 20, 2006; and

AND WHEREAS, Cardiac Pacemakers, Inc., a corporation organized and existing under and by virtue of the laws of the State of Minnesota, and having an office and place of business at 4100 Hamline Avenue North, St. Paul, MN 55112 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid

inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 7 day of March, 2007.

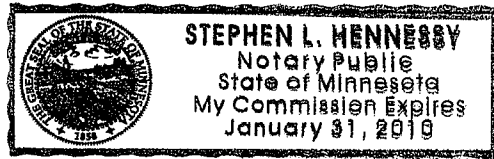


Allan C. Shuros

STATE OF Minnesota )

COUNTY OF Ramsay )

On this 7 day of March, 2007 before me personally appeared Allan C. Shuros, 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.

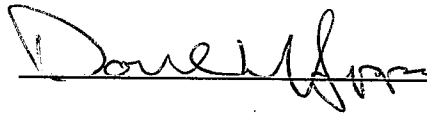


[SEAL]



Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 6 day of  
March, 2007.



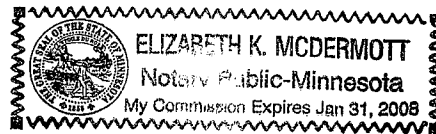
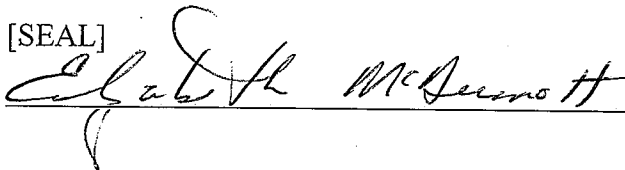
Donald L. Hopper

STATE OF Minnesota )

COUNTY OF Ramsey )

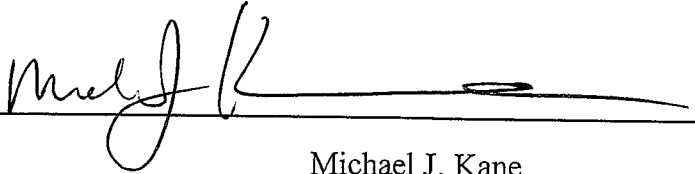
On this 6<sup>th</sup> day of March, 2007 before me personally appeared Donald L. Hopper, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 20 day of March, 2007.

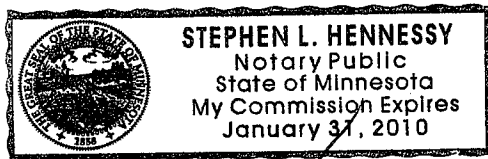
  
Michael J. Kane

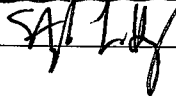
STATE OF Minnesota

COUNTY OF Carver

On this 20 day of March, 2007 before me personally appeared Michael J. Kane, 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.

[SEAL]





Notary Public