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May 11, 1999
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WASHINGTON, D.C. 20231

To the Honorable Commissioner of Patents and Trademarks. Please
record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Qingsheng Zhu, and Mark Gryzwa
2. Name and address of receiving party(ies):
Name: Cardiac Pacemakers, Inc.
Street Address: 4100 North Hamline Avenue
City: St. Paul
State: Minnesota Zip: 55112-5798
3. Nature of Conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other	

Execution Date: May 10, 1999

4. Application number(s) or registration number(s):
If this document is being filed together with a new
application, the execution date of the application is:
May 10, 1999

A. Patent Application No.(s):

B. Patent No.(s):

05/20/1999 DBSILLER 00000000 00000000

02 FD:581

PATENT
REEL: 009960 FRAME: 0053

5. Name and address of party of whom correspondence concerning document should be mailed:

Name: Paul T. Dietz, Esq.
NIKOLAI, MERSEREAU & DIETZ, P.A.
Street Address: 900 Second Avenue South, #820
City: Minneapolis State: MN Zip: 55402-3325
Telephone: (612) 339-7461

6. Number of applications and patents involved: 1

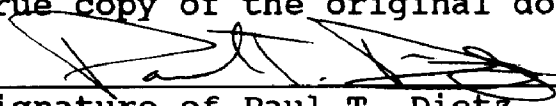
7. Total Fee (37 CFR 3.41): \$40.00
X A check is enclosed.

8. The Commissioner is authorized to charge any fees or refund any overpayment under 37 CFR 1.16 and 1.17 which may be required by this paper to Deposit Account No. 08-1265.

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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.



Signature of Paul T. Dietz

Date: May 11, 1999

Total number of pages including
cover sheet, attachments and document: 4

A S S I G N M E N T

WHEREAS, we, Qingsheng Zhu, a citizen of the Peoples Republic of China, residing at 3025 Valento Lane, Little Canada, MN 55117, and Mark Gryzwa, a citizen of the United States of America, residing at 3204 Copper Oaks Tr, Woodbury, MN 55125, are the inventors of that certain invention disclosed and claimed in an application for United States Letters Patent executed by Qingsheng Zhu on MAY 10th, 1999, and executed by Mark Gryzwa on MAY 10, 1999, and entitled "ADAPTIVE EVOKED RESPONSE SENSING FOR AUTOMATIC CAPTURE VERIFICATION"; and

WHEREAS, Cardiac Pacemakers, Inc., a corporation organized and existing under the laws of the State of Minnesota and having its principal office located at 4100 North Hamline Avenue, St. Paul, MN 55112 is desirous of acquiring the said invention and any and all patents of any and all countries which may be granted on said invention.

NOW, THEREFORE, Be It Known that for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by said Cardiac Pacemakers, Inc. and for other good and valuable consideration, the receipt of all of which is hereby acknowledged, we, Qingsheng Zhu and Mark Gryzwa, have sold, assigned and transferred, and do hereby sell, assign and transfer unto said Cardiac Pacemakers, Inc. the entire right, title, and interest, both legal and equitable, in and to the said above identified invention for all countries, in and to the same above identified application for patent, and in and to any and all patents of any and all countries which may be granted on said invention; and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue, in accordance with this Assignment, any and all patents which may be granted on the above identified

application or on the invention therein disclosed.

(1)

[Signature]
Qingsheng Zhu
3025 Valento Lane
Little Canada, MN 55117

Date:

MAY 10th, 1999

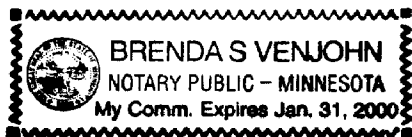
STATE OF MINNESOTA

SS

COUNTY OF

On this 10 day of May, 1999, before me, a Notary Public for and within the County aforesaid, personally appeared Qingsheng Zhu to me known to be the person described in the foregoing Assignment, and he acknowledged to me that he executed the same as his free act and deed.

(Seal)



Brenda Venjohn
Notary Public

(2)

[Signature]
Mark Gryzwa
3204 Copper Oaks Tr
Woodbury, MN 55125

Date:

MAY 10, 1999

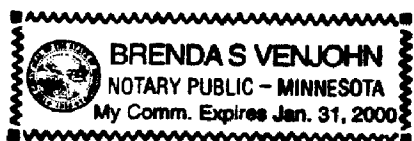
STATE OF MINNESOTA

SS

COUNTY OF

On this 10 day of May, 1999, before me, a Notary Public for and within the County aforesaid, personally appeared Mark Gryzwa to me known to be the person described in the foregoing Assignment, and he acknowledged to me that he executed the same as his free act and deed.

(Seal)



Brenda Venjohn
Notary Public