

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) **RECORDATION FORM COVER SHEET PATENTS ONLY** U.S. DEPARTMENT OF COMMERCE U.S. Patent And Trademark Office

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

1. Name of conveying party(ies):
 Yoram Rudy
 Charulatha Ramanathan

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: April 22, 2003

2. Name and address of receiving party(ies):
 Name: Case Western Reserve University
 Internal Address: Technology Transfer Office

 Street Address: 10900 Euclid Avenue

 City: Cleveland State: OH Zip: 44106

Additional name(s) and address(es) attached? Yes No

4. Application number(s) or patent number(s): 10/264,572

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
 Name: Kevin A. Oliver, Esq.
 Internal Address: Foley Hoag LLP

World Trade Center West
 Street Address: 155 Seaport Boulevard

 City: Boston State: MA Zip: 02210

6. Total number of applications and patents involved 1


7. Total fee (37 CFR 3.41).....\$40
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: 06-1448, Reference: CWO-003.01

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Kevin A. Oliver  May 1, 2003
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 8

Mail documents to be recorded with required cover sheet information to:
 Mail Stop Assignment Recordation Services
 Director of the US Patents and Trademark Office
 P.O. Box 1450
 Alexandria VA 22313-1450

Attachment to Recordation Form Cover Sheet

1. Name of conveying party(ies):

Raja Ghanem

Ping Jia

ASSIGNMENT

We, Yoram Rudy, Charulatha Ramanathan, Raja Ghanem and Ping Jia, for valuable consideration received from CASE WESTERN RESERVE UNIVERSITY, a non-profit Ohio organization, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

CASE WESTERN RESERVE UNIVERSITY

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

"SYSTEMS AND METHODS FOR NONINVASIVE ELECTROCARDIOGRAPHIC IMAGING (ECGI) USING GENERALIZED MINIMUM RESIDUAL (GMRES)"

described in an application filed on October 4, 2002 as Application No. 10/264,572 in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves, and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand this 22nd day of April 2003.

By: *Yoram Rudy*
Yoram Rudy

Then personally appeared the above-named Yoram Rudy and acknowledged the foregoing instrument to be his free act and deed, before me, this 22nd day of April 2003.

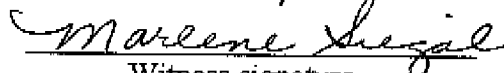
Marlene Siegal
Witness signature

MARLENE SIEGAL
Witness Name (please print)

WITNESS my hand this 22nd day of April 2003.

By: 
Charulatha Ramanathan

Then personally appeared the above-named **Charulatha Ramanathan** and acknowledged the foregoing instrument to be her free act and deed, before me, this 22nd day of April 2003.



Witness signature

MARLENE SIEGAL
Witness Name (please print)

WITNESS my hand this 22 day of April 2003.

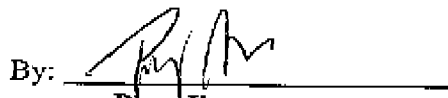
By: 
Raja Ghanem

Then personally appeared the above-named **Raja Ghanem** and acknowledged the foregoing instrument to be his free act and deed, before me, this 22 day of April 2003.

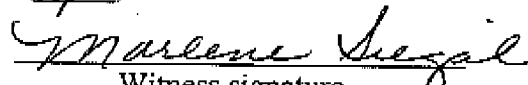

Witness signature

MARLENE SIEGAL
Witness Name (please print)

WITNESS my hand this 22 day of April 2003.

By: 
Ping Jia

Then personally appeared the above-named **Ping Jia** and acknowledged the foregoing instrument to be her free act and deed, before me, this 22 day of April 2003.


Witness signature

MARLENE SIEGAL
Witness Name (please print)