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RECORDATION FORM COVER SHEET PATENTS ONLY

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Koon Hoo Teo, Ronghui Peng, Jinyun Zhang

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

3. Nature of Conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

Execution Dates: February 27, 2008, March 3, 2008, February 29, 2008

2. Name and address of receiving party(ies):

Name: Mitsubishi Electric Research Laboratories, Inc.

Street Address: 201 Broadway

City: Cambridge State: MA Zip: 02139

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

4. Application number(s) or patent number(s):

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

A. Patent Application No.(s)

12/038,021

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Mitsubishi Electric Research Laboratories, Inc.

Street Address: 201 Broadway

City: Cambridge State: MA Zip: 02139

6. Total number of applications and patents involved: [1]

7. Total fee (37CFR 3.41): \$40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number: 50-0749

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.

Gene V. Vinokur
Name of Person Signing

/G.Vinokur, Reg.# 54,513/
Signature

June 3, 2008
Date

Total number of pages comprising cover sheet: [1]

GH \$40.00 500749 12038021

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ASSIGNMENT

WHEREAS, We (I), have made certain inventions or discoveries (or both) set forth in an Application entitled SYSTEM AND METHOD FOR GENERATING SOFT OUTPUT IN HYBRID MIMO SYSTEMS, the specification of which:

- was executed by us on the date indicated below;
- X was filed on February 27, 2008 as Application Serial No. 12/038,021;
- was patented under U.S. Patent No. on ;

WHEREAS, Mitsubishi Electric Research Laboratories, Inc., a corporation of the State of Delaware, whose address is 201 Broadway, Cambridge, Massachusetts 02139, and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title, and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservation;

1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant

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convention or treaty or otherwise;

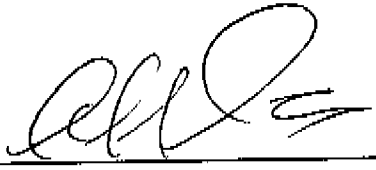
3. Authorize and request the Assistant Commissioner for Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as Assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that I have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

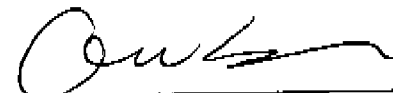
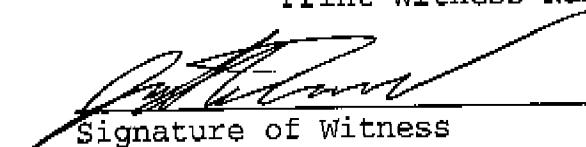
5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing any facts of my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

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IN WITNESS WHEREOF:

Inventor Signature : 

Koon Hoo Teo

Today's Date: 2/27/2008Date Inventor Signed Declaration : Jan 25, 2008Witnessed: Tianlin Guo
Print Witness Name
Signature of Witness2/27/2008
DateWitnessed: Jonathan Leonard
Print Witness Name
Signature of Witness2/27/08
Date

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IN WITNESS WHEREOF:

Inventor Signature :

Ronghui Peng

Today's Date:

02/03/2008Date Inventor Signed Declaration : January 24, 2008

Witnessed:

Rong Wan
Print Witness NameRong Wan
Signature of Witness03/03/2008
Date

Witnessed:

Xue Yan Pan
Print Witness NameXue Yan Pan
Signature of Witness03/03/2008
Date

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IN WITNESS WHEREOF:

Inventor Signature : J. Yun Zhang
Jinyun Zhang
Today's Date: February 29, 2008

Date Inventor Signed Declaration : January 24, 2008

Witnessed: Jonathan Leonard
Print Witness Name

[Signature]
Signature of Witness

2/29/08
Date

Witnessed: Lon Baccare
Print Witness Name

[Signature]
Signature of Witness

2/29/08
Date