

MERL-2115

**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):

Zhifeng Tao
Wei Huang Fu
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: March 19, 2009; March 9,
2009; and March 19, 2009

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):

A. Patent Application No.(s)

12/393,820

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.

Erika J. Cherko-Soykan

/Erika J. Cherko-Soykan/

March 19, 2009

Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet: [1]

CH \$40.00 500749 12393820

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ASSIGNMENT

WHEREAS, we, LISTED INVENTORS, have made certain inventions or discoveries (or both) set forth in an Application for Utility Patent of the United States of America entitled "Method for Detecting Hidden Nodes in Cognitive Radio Networks," the specification of which:

___ was executed by us on the date indicated below;

x was filed on February 26, 2009 as Application Serial No. 12/393,820;

___ 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 we hereby acknowledge, we 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

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said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant 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 we 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 we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, 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, our 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 our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing any facts of our conceptions, disclosures, and reduction to practice of said inventions or discoveries.

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IN WITNESS WHEREOF:


DATE I SIGNED INVENTOR'S DECLARATION: February 9, 2009

Zhifeng TaoDate: 3/19/09Witnessed: MON-ON PUN

Printed Name

Signature3/19/09

DateWitnessed: Ramash Annamajula

Printed Name

Signature3/19/09

Date

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IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: February 11, 2009

Wei Huang Fu
Wei Huang Fu

Date: 03/09/2009

Witnessed: Lu Zhang
Printed Name

Lu Zhang
Signature

03/09/2009
Date

Witnessed: Wei Hua Gao
Printed Name

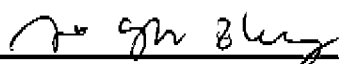
Wei Hua Gao
Signature

03/09/2009
Date

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IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: February 9, 2009


Jinyun Zhang

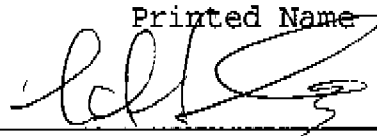
Date: March 19, 2009

Witnessed: Amine Maaref
Printed Name


Signature

March 19, 2009
Date

Witnessed: Roon Hoo Tai
Printed Name


Signature

3/19/2009
Date