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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| Jyh-Cheng Chen | 02/17/2010 |
| Tao Zhang | 02/17/2010 |
| Zong-Hua Liu | 02/25/2010 |

RECEIVING PARTY DATA

| Name: | Telcordia Technologies, Inc. | |
|-----------------|------------------------------|--|
| Street Address: | One Telcordia Drive 5G116 | |
| City: | Piscataway | |
| State/Country: | NEW JERSEY | |
| Postal Code: | 08854-4157 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12634842 |

CORRESPONDENCE DATA

Fax Number: (732)336-3004

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: adible@telcordia.com

Correspondent Name: Ashley Dible

Address Line 1: One Telcordia Drive 5G116

Address Line 4: piscataway, NEW JERSEY 08854-4157

ATTORNEY DOCKET NUMBER: APP 1907

NAME OF SUBMITTER: Philip J. Feig

Total Attachments: 4

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ASSIGNMENT OF APPLICATION

WHEREAS, I/we, Jyh-Cheng Chen, Tao Zhang and Zong-Hua Liu have invented certain useful improvements in "Pre-Registration/Pre-Authentication in Wireless Networks" described in an application for Letters Patent: and

WHEREAS, I/we, hereby authorize and request my/our attorney to insert below the filing date and application number when they become known to comply with 37 CFR 3.21 for recordal of this assignment: U. S. Application No. 12/634,842 filed on December 10, 2009; and

WHEREAS, Telcordia Technologies, Inc., a corporation of the State of Delaware, having a place of business at One Telcordia Drive, Piscataway, NJ 08854-4157, United States of America, for the benefit of itself and its successors and assigns, all inclusively hereinafter referred to as "Assignee", is desirous of acquiring all rights, title, and interest in and to said application, all inventions disclosed therein, and any and all Letters Patent of the United States of America, and of all other countries, which may be granted for said inventions, or any of them; and

WHEREAS, I/we hereby represent and warrant to Assignee that I/we have, with respect to third parties, full and unencumbered rights, title, and interest in and to said application, inventions, and Letters Patent, and further that I/we may freely assign the same;

NOW, THEREFORE, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, I/we do hereby sell, assign, and transfer to Assignee all my/our rights, title, and interest in and to said application, including all priority rights arising therefrom, all inventions disclosed therein, and all divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and of all other countries, and all reissues thereof, which may be granted for said inventions, or any of them, together with the right to make application for any and all of the same;

TO HAVE, HOLD, AND ENJOY said inventions, said application and rights, and said Letters Patent, or any of them, to its own use and behoof to the full end of the term or terms for which said applications may endure and for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment not been made;

AND I/WE HEREBY authorize and request the Commissioner of Patents and Trademarks to issue or reissue such Letters Patent as may be granted on said application, on any division or continuation thereof, or for said inventions, or any of them, to Assignee in accordance with the terms of this instrument;

AND I/WE HEREBY agree that I/we shall, at the request of Assignee and without demand of further consideration, but at no expense to me/us, do all lawful and just acts, including execution and acknowledgment of instruments, furnishing information, and giving testimony, particularly in the event of interference or litigation, indicated by counsel for Assignee to be necessary for obtaining, maintaining, and perfecting the property rights, or any of them, hereby assigned.

IN WITNESS WHEREOF, I/we hereunto set my/our hand on the day and year indicated.

IN WITNESS WHEREOF, I/we hereunto set my/our hand on the day and year indicated.

Tao Zhang

Date:

PATENT

REEL: 024028 FRAME: 0605

APP 1907

IN WITNESS WHEREOF, I've hereunto set my/our hand on the day and year indicated.

Tours Hos Circ Zong-Mua Liu Date:

Form PTO-1595 (Rev. 12/08) OMB No. 0651-0027 (exp. 01/31/2009)

RECORDED: 03/04/2010

U.S. DEPARTMENT OF COMMERCE. United States Patent and Trademark Office

| RECORDATION FORM COVER SHEET PATENTS ONLY | | | | |
|---|---|--|--|--|
| To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. | | | | |
| 1. Name of conveying party(ies) | 2. Name and address of receiving party(ies) | | | |
| Jyh-Cheng Chen, Tao Zhang and Zong-Hua Liu | Name: Telcordia Technologies, Inc. | | | |
| | Internal Address: | | | |
| | | | | |
| Additional name(s) of conveying party(ies) attached? Yes No | Street Address: One Telcordia Drive 5G116 | | | |
| 3. Nature of conveyance/Execution Date(s): | | | | |
| Execution Date(s) 2/17/10, 2/17/10, 2/25/10 | | | | |
| ☑ Assignment ☐ Merger | City: Piscataway | | | |
| ☐ Security Agreement ☐ Change of Name ☐ Joint Research Agreement | State: New Jersey | | | |
| ☐ Government Interest Assignment | Country: <u>US</u> Zip: <u>08854-4157</u> | | | |
| Executive Order 9424, Confirmatory License | | | | |
| Other | Additional name(s) & address(es) attached? Yes No | | | |
| 4. Application or patent number(s): | | | | |
| A. Patent Application No.(s) | B. Patent No.(s) | | | |
| 12/634,842 | | | | |
| | | | | |
| Additional numbers att | | | | |
| Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 1 | | | |
| Name: Joseph D'Avanzo | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 | | | |
| Internal Address: Telcordia Technologies, Inc. | \ \ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | |
| | ☒ Authorized to be charged to deposit account ☐ Enclosed | | | |
| Street Address: One Telcordia Drive 5G116 | ☐ None required (government interest not affecting title) | | | |
| · · · · · · · · · · · · · · · · · · · | 8. Payment Information | | | |
| City: Piscataway | o. i dyment mornidion | | | |
| State: New Jersey Zip: 08854-4157 | | | | |
| Phone Number: (732) 699-3673 | | | | |
| Fax Number: (732) 336-3004 | Deposit Account Number 021822 | | | |
| Email Address: jdavanzo@telcordia.com | Authorized User Name Joseph D'Avanzo | | | |
| 9. Signature: Osoph D) (wanso) | 3/3/10 | | | |
| Signature Date | | | | |
| Joseph D'Avanzo | Total number of pages including cover 4 | | | |
| Name of Person Signing | sheet, attachments, and documents: | | | |

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT

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