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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)**

Toshiro Hikita  
Ryokichi Onishi

**2. Name and address of receiving party(ies)**Name: Toyota InfoTechnology Center, U.S.A., Inc.

Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) 10/20/2006

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

Street Address: 4009 Miranda Avenue, Suite 200City: Palo AltoState: CACountry: USA Zip: 94304-1218Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/585,047

B. Patent No.(s)

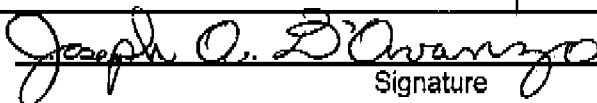
Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Philip J. FeigInternal Address: Telcordia Technologies, Inc.Street Address: One Telcordia Drive 5G116City: PiscatawayState: NJ Zip: 08854Phone Number: (732) 699-7997Fax Number: (732) 336-3004Email Address: pfeig@telcordia.com**6. Total number of applications and patents involved:**1**7. Total fee (37 CFR 1.21(h) & 3.41) \$** 40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 021822Authorized User Name Joseph A. D'Avanzo**9. Signature:**

Signature

12/8/06

Date

Joseph A. D'Avanzo

Name of Person Signing

Total number of pages including cover

3

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

**Atty. Docket: APP 1715**

### ASSIGNMENT OF APPLICATION

WHEREAS, I/we, **Toshiro Hikita and Ryokichi Onishi** have invented certain useful improvements in **“Method and Communication Device for Routing Unicast and Multicast Messages in an Ad-Hoc Wireless Network”** 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. 11/585,047 filed on October 23, 2006; and

**WHEREAS**, Toyota InfoTechnology Center, U.S.A., Inc., 4009 Miranda Avenue, Suite 200, Palo Alto, CA 94304-1218, 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 and seal on the day and year indicated.

  
Toshio Hikita


Date: 10/20/2006

County of Middlesex)  
 ) ss  
 State of New Jersey)

Then personally appeared before me on the indicated date(s) the above-named **Toshiro Hikita**, to me personally known and known by me to be the person(s) described in and who executed the foregoing instrument, and acknowledged the same, before me, to be his/her/their own free act and deed.

10/20/06  
Date

Joseph A. D'Avanzo  
NOTARY PUBLIC  
JOSEPH A. D'AVANZO  
A NOTARY PUBLIC OF NEW JERSEY  
MY COMMISSION EXPIRES MARCH 26, 2011

  
Ryokichi Onishi

Date: 10-20-06

County of Middlesex) ss  
State of New Jersey )

Then personally appeared before me on the indicated date(s) the above-named **Ryokichi Onishi**, to me personally known and known by me to be the person(s) described in and who executed the foregoing instrument, and acknowledged the same, before me, to be his/her/their own free act and deed.

10/20/06  
Date

*Joseph A. D'Avanzo*  
NOTARY PUBLIC  
JOSEPH A. D'AVANZO  
A NOTARY PUBLIC OF NEW JERSEY  
MY COMMISSION EXPIRES MARCH 25, 2011