

# PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ryokichi Onishi</td> <td>04/28/2008</td> </tr> <tr> <td>Toshiro Hikita</td> <td>04/28/2008</td> </tr> </tbody> </table>		Name	Execution Date	Ryokichi Onishi	04/28/2008	Toshiro Hikita	04/28/2008						
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Toyota InfoTechnology Center, U.S.A., Inc.</td> </tr> <tr> <td>Street Address:</td> <td>4009 Miranda Avenue</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 200</td> </tr> <tr> <td>City:</td> <td>Palo Alto</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94304-1218</td> </tr> </table>		Name:	Toyota InfoTechnology Center, U.S.A., Inc.	Street Address:	4009 Miranda Avenue	Internal Address:	Suite 200	City:	Palo Alto	State/Country:	CALIFORNIA	Postal Code:	94304-1218
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<b>CORRESPONDENCE DATA</b>													
Fax Number: (732)336-3004 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: audible@telcordia.com Correspondent Name: Ashley Dible Address Line 1: One Telcordia Drive 5G116 Address Line 2: Telcordia Technologies, Inc. Address Line 4: Piscataway, NEW JERSEY 08854-4157													
ATTORNEY DOCKET NUMBER:	APP 1795												
NAME OF SUBMITTER:	Philip J. Feig												
Total Attachments: 3 source=ToyotaAssignment#page1.tif source=ToyotaAssignment#page2.tif													

CH \$40.00 12069815

**500888553**

**PATENT**  
**REEL: 022838 FRAME: 0921**



**ASSIGNMENT OF APPLICATION**

**WHEREAS**, I/we, **Ryokichi Onishi and Toshiro Hikita** have invented certain useful improvements in **"Methods for Reliable Multicasting in Local Peer Group (LPG) Based Vehicle Ad Hoc 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. 12/069,815 filed on February 13, 2008; 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;

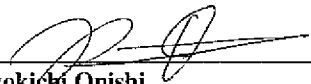
**NOW, THEREFORE**, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, I/we do hereby sell, assign, and transfer to Assignee all my/our rights, title, and interest in and to said application, including all priority rights arising therefrom, all inventions 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 on the day and year indicated.

  
\_\_\_\_\_  
Ryokichi Onishi

Date: 4-28-2008

Atty. Docket: APP 1795

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

Toshiro Hikita  
Toshiro Hikita

Date: Apr-28-2008

**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)**

Ryokichi Onishi, Toshiro Hikita

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 4/28/08, 4/28/08

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

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

Name: Toyota InfoTechnology Center, U.S.A., Inc.

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

Street Address: 4009 Miranda Avenue

Suite 200

City: Palo Alto

State: CA

Country: US Zip 94304-1218

Additional 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)

B. Patent No.(s)

12/069,815

Additional numbers attached? ☐ Yes ☒ No

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

Name: Joseph A. D'Avanzo

Internal Address: Telcordia Technologies, Inc.

Street Address: One Telcordia Drive 5G116

City: Piscataway

State: NJ Zip 08854-4157

Phone Number: (732) 699-3673

Fax Number: (732) 336-3004

Email Address: jdavanzo@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 to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 021822

Authorized User Name Joseph A. D'Avanzo

**9. Signature:**

*Joseph A. D'Avanzo*  
Signature

6/16/09  
Date

Joseph A. D'Avanzo

Name of Person Signing

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

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, V.A. 22313-1450