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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)**

1) Ashutosh DUTTA; 2) Victor FAJARDO; 3) Yoshihiro OBA; and  
4) Kenichi TANIUCHI

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

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

Execution Date(s) All executed on October 16, 2006

- ☒ 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: Toshiba America Research, Inc.

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

Street Address: 1 Telcordia Drive, Suite 1A257

City: Piscataway

State: New Jersey

Country: \_\_\_\_\_ Zip: 08854

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

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

A. Patent Application No.(s)

11/279,856

☐ This document is being filed together with a new application.  
B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Stephen B. Parker

Internal Address: Docket No. 3119.122B

Street Address: 1250 Connecticut Avenue, N.W., Suite 700

City: Washington

State: District of Columbia Zip: 20036-2657

Phone Number: (202) 419-1518

Fax Number: (202) 318-4261

Email Address: parker@w-pd-a.com

**6. Total number of applications and patents involved: one (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 9017

Expiration Date 10/2010

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

1/29/07  
Date

Stephen B. Parker

Name of Person Signing

Total number of pages including cover 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, V.A. 22313-1450

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**TWO ADDITIONAL NAMES/ADDRESSES OF RECEIVING PARTIES**  
**FOR RECORDATION FORM COVERSHEET (PATENTS)**

**Second Assignee**

**Name: Telcordia Technologies, Inc.**

**Street Address: 1 Telcordia Drive, Suite 05G0116**

**City: Piscataway**

**State: New Jersey**

**Country: USA                      Zip: 08854**

**Third Assignee**

**Name: Kabushiki Kaisha Toshiba**

**Street Address: 72, Horikawa-Cho, Saiwai-Ku**

**Province: Kanagawa-Ken**

**City: Kawasaki-shi**

**Country: Japan**

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**ASSIGNMENT**

**WHEREAS**, the below-signed individual(s) am/are the inventor(s) (hereinafter, **ASSIGNORS**) of an invention in **FRAMEWORK OF MEDIA-INDEPENDENT PRE-AUTHENTICATION IMPROVEMENTS: INCLUDING CONSIDERATIONS FOR FAILED SWITCHING AND SWITCHBACK**, for which I/we have executed an application for Letters Patent of the United States on even date herewith, or, if filed after the filing date of such application for Letters Patent of the United States, said filing date of such application being **April 14, 2006**, and relating to application Serial No. **11/279,856**;

**WHEREAS**, Toshiba America Research, Inc., incorporated in the state of New Jersey, with a place of business at 1 Telcordia Drive, Suite 1A257, Piscataway, New Jersey 08854 (hereinafter, **ASSIGNEE #1**) has received and is desirous of obtaining jointly with the below-listed **ASSIGNEE #2** the entire right, title and interest in, to and under the said invention and the said application within the territories of the United States;

Telcordia Technologies, Inc., a corporation of the state of Delaware, with a place of business at 1 Telcordia Drive, Suite 05G0116, Piscataway, New Jersey (hereinafter, **ASSIGNEE #2**) has received and is desirous of obtaining jointly with the above-listed **ASSIGNEE #1** the entire right, title and interest in, to and under the said invention and the said application within the territories of the United States and has received and is desirous of obtaining jointly with the below-listed **ASSIGNEE #3** the entire right, title and interest in, to and under the said invention within countries foreign to the territories of the United States;

Kabushiki Kaisha Toshiba, incorporated in Japan, with a place of business at 72, Horikawa-Cho, Saiwai-Ku, Kawasaki-shi, Kanagawa-Ken, Japan (hereinafter, **ASSIGNEE #3**) has received and is desirous of obtaining jointly with the above-listed **ASSIGNEE #2** the entire right, title and interest in, to and under the said invention and the said application within countries foreign to the territories of the United States;

My/our entire right, title and interest worldwide have been and are now to be sold, assigned, transferred and set over to said Assignee #1, Assignee #2 and Assignee #3 (**ASSIGNEE #1, ASSIGNEE #2 and ASSIGNEE #3** hereinafter collectively referred to as **ASSIGNEES**) under the terms herein.

**NOW, THEREFORE**, in consideration of the sum of One Dollar (\$1.00) to me/us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I/we the said **ASSIGNORS** has/have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over:

a) (United States) jointly unto the said **ASSIGNEE #1 and ASSIGNEE #2**, their successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention within the territories of the United States, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and I/we hereby authorize and

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request the Commissioner of Patents of the United States, whose duty it is to issue patents on applications as aforesaid, to issue all United States Letters Patents for said invention jointly to the said **ASSIGNEE #1 and ASSIGNEE #2**, their successors, legal representatives and assigns, in accordance with the terms this instrument; and

b) (Countries Foreign to the United States) jointly unto the said **ASSIGNEE #2 and ASSIGNEE #3** all applications for Letters Patent which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of the said application for Letters Patent of the United States which are created by any law, treaty or international convention, and I/we hereby authorize and request any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for any Country Foreign to the United States for said invention jointly to the said **ASSIGNEE #2 and ASSIGNEE #3**, their successors, legal representatives and assigns, in accordance with the terms this instrument; .

**AND I/WE HEREBY** covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

**AND I/WE HEREBY** further covenant and agree that we will communicate to said **ASSIGNEES**, their successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **ASSIGNEES**, their successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

**IN TESTIMONY WHEREOF**, we, the below-listed **ASSIGNORS**, hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 10/16/, 2006

Ashutosh Dutta  
Signature

Printed Name: Ashutosh DUTTA

Address: 349 Greenfield Road  
Bridgewater, NJ 08807

Date 10/16, 2006

Victor Fajardo  
Signature

Printed Name: Victor FAJARDO

Address: 12 HICKORY WAY  
ROBBINSVILLE NJ 08691

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Address: 10 Second St.  
Englewood Cliffs, NJ 07632  
 Date Yoshihiro Oba Oct. 16 2006

Signature

Printed Name: Yoshihiro OBA

Address: 10 Second St.  
Englewood Cliffs, NJ 07632  
 Date K. Taniuchi Oct. 16 2006

Signature

Printed Name: Kenichi TANIUCHI

Address: 444 Washington Blvd, #5420  
Jersey City, NJ 07310