

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

RECORDATION FORM COVER SHEET  
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

☒ New

☐ Resubmission (Non-Recordation)  
Document ID#

☐ Correction of PTO Error  
Reel # Frame #

☐ Corrective Document  
Reel # Frame #

Conveyance Type

☒ Assignment ☐ Security Agreement

☐ License ☐ Change of Name

☐ Merger ☐ Other

U.S. Government  
(For Use ONLY by U.S. Government Agencies)  
☐ Departmental File ☐ Secret File

Conveying Party(ies)

☒ Mark If additional names of conveying parties attached

Name (line 1) Agrawal, Prathima

Execution Date  
Month Day Year  
10/09/2001

Name (line 2)

Second Party

Name (line 1) Chen, Jyh-Cheng

Execution Date  
Month Day Year  
10/04/2001

Name (line 2)

Receiving Party

☒ Mark If additional names of receiving parties attached

Name (line 1) Telcordia Technologies, Inc.

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2) A Corporation of the State of Delaware

Address (line 1) 445 South Street

Address (line 2)

Address (line 3) Morristown New Jersey 07960

City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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Patent and Trademark Office  
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## Correspondent Name and Address

Area Code and Telephone Number

(973) 829-2370

Name Orville R. Cockings, Esq.

Address (line 1) Telcordia Technologies, Inc.

Address (line 2) 445 South Street

Address (line 3) Morristown, New Jersey 07960

Address (line 4)

## Pages

Enter the total number of pages of the attached conveyance document  
including any attachments.

# 3

## Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09976166

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application  
was

Month Day Year

## Patent Cooperation Treaty (PCT)

Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

## Number of Properties

Enter the total number of properties involved.

# 1

## Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

40.00

Method of Payment:

Enclosed ☐Deposit Account ☒

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the

Deposit Account Number:

# 02-1820

Authorization to charge additional fees:

Yes ☒No ☐

## 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. Charges to deposit account are authorized, as  
indicated herein.

Orville R. Cockings

Name of Person Signing

Signature

Date

PATENT

REEL: 012180 FRAME: 0280

FORM PTO-1619C  
Expires 09/30/99  
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**RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY**

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

**Conveying Party(ies)**

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Zhang, Tao

Execution Date  
Month Day Year  
10/08/2001

Name (line 2)

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

**Receiving Party**

☐ Mark if additional names of receiving parties attached

Name (line 1) Toshiba America Research, Inc.

Name (line 2) A Corporation of the State of Delaware

Address (line 1) 445 South Street, Suite 1B260B

Address (line 2)

Address (line 3) Morristown

New Jersey

07960

City

State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

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**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)


Atty. Docket: APP 1311

**ASSIGNMENT OF APPLICATION**

**WHEREAS**, I/we, Prathima Agrawal, Jyh-Cheng Chen and Tao Zhang have invented certain useful improvements in "Distributed Soft Handoff Among IP-Based Base Stations" 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. 09 / 976,166 filed on October 12, 2001; and

**WHEREAS**, Telcordia Technologies, Inc., a corporation of the State of Delaware, having a place of business at 445 South Street, Morristown, NJ 07960, US, for the benefit of itself and its successors and assigns, 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**, Toshiba America Research, Inc., a corporation of the State of Delaware, having a place of business at 445 South Street, Suite 1B260B, Morristown, NJ 07960, US, for the benefit of itself and its successors and assigns, is desirous of acquiring all rights, title, and interest in and to said application, all inventions disclosed therein, and any and all Letters Patent which may be granted for said inventions in the United States of America; and

**WHEREAS**, Toshiba Corporation, Research and Development Center, 1 Komukai Toshiba-Cho, Saiwai-Ku, Kawasaki-Shi 212-8582, Japan, for the benefit of itself and its successors and assigns, is desirous of acquiring all rights, title, and interest in and to said application, all inventions disclosed therein, and any and all Letters Patent which may be granted for said inventions in any country other than the United States of America; and

**WHEREAS**, Telcordia Technologies, Inc., Toshiba America Research, Inc., and Toshiba Corporation are all inclusively hereinafter referred to as "Co-Assignees"; and

**WHEREAS**, I/we hereby represent and warrant to Co-Assignees 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; and

**NOW, THEREFORE**, for good and valuable consideration, the receipt of which from Co-Assignees are hereby acknowledged, I/we do hereby sell, assign, and transfer to:

(i) Telcordia Technologies, Inc., 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; and

(ii) Toshiba America Research, Inc., 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 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 in the United States only; and

(iii) Toshiba Corporation, 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 any foreign country other than the United States, 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 in any foreign country other than the United States; and

**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 or any other proper officer or agency of any country 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 said Co-Assignees in accordance with the terms of this instrument;

**AND I/WE HEREBY** agree that I/we shall, at the request of Co-Assignees 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 Co-Assignees to be necessary for obtaining, maintaining, and perfecting the property rights, or any of them, hereby assigned in the United States or any foreign country.

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

Prathima Agrawal Date: 10/9/2001  
Prathima Agrawal

County of Morris  
ss  
State of New Jersey

Then personally appeared before me on the indicated date(s) the above-named **Prathima Agrawal** 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.

Oct. 9, 2001  
Date

Linda K. Adams  
Notary Public  
LINDA K. ADAMS  
A Notary Public of New Jersey  
My Commission Expires 3/28/01

Jyh-Cheng Chen  
Jyh-Cheng ChenDate: 10/4/2001

County of \_\_\_\_\_

SS

State of \_\_\_\_\_

Then personally appeared before me on the indicated date(s) the above-named **Jyh-Cheng Chen** 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.

Date \_\_\_\_\_

Notary Public

Tao Zhang  
Tao ZhangDate: 10/08/2001County of MORRIS

SS

State of New Jersey

Then personally appeared before me on the indicated date(s) the above-named **Tao Zhang** 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.

Date 10/4/01

Notary Public

LINDA K. ADAMS

A Notary Public of New Jersey

My Commission Expires 3/28/04