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OMB 0651-0027

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U.S. Department of Commerce
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PATENT

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Assignment Security Agreement

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Mark if additional names of conveying parties attached

Name (line 1) Execution Date
Month Day Year

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PATENT

Correspondent Name and Address

Area Code and Telephone Number

(973) 829-2352

Name Joseph Giordano, 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.

2

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)

09772502

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:
Deposit Account

Enclosed 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.

Joseph Giordano

Name of Person Signing

Signature

Date

RECORDATION FORM COVER SHEET
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PATENTS ONLY

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Execution Date
Month Day Year

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Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1)

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)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

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)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Application Number(s) or Patent Number(s)

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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)

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ASSIGNMENT OF APPLICATION

WHEREAS, I/we, Gee-Kung Chang, Arshad M. Chowdhury and Georgios Ellinas have invented certain useful improvements in "Optical Layer Multicasting Using a Single Sub-Carrier Header and a Multicast Switch with Active Header Insertion" 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 / 772,502 filed on January 30, 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, 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 and seal on the day and year indicated.

Gee-Kung Chang (with signature)

Date: 1/16/01

County of MORRIS)
State of New Jersey) ss:

Then personally appeared before me on the indicated date(s) the above-named Gee-Kung Chang, 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.

01/16/01
Date

Joseph A. D'Avanzo
NOTARY PUBLIC
JOSEPH A. D'AVANZO
A Notary Public of New Jersey
My Commission Expires 3/25/01

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

Arshad M. Chowdhury

Arshad M. Chowdhury

Date: 01/16/2001

County of **MORRIS**)
State of **New Jersey**) ss:

Then personally appeared before me on the indicated date(s) the above-named **Arshad M. Chowdhury** 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.

01/16/01
Date

Joseph A. D'Avanzo
NOTARY PUBLIC
JOSEPH A. D'AVANZO

A Notary Public of New Jersey
My Commission Expires 3/25/01

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

Georgios Ellinas

Georgios Ellinas

Date: 01/16/2001

County of **MORRIS**)
State of **New Jersey**) ss:

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

01/16/01
Date

Joseph A. D'Avanzo
NOTARY PUBLIC
JOSEPH A. D'AVANZO

A Notary Public of New Jersey
My Commission Expires 3/25/01