

Form PTO-1595 (Rev. 09/04)  
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### 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)/Execution Date(s):**

TELCORDIA TECHNOLOGIES, INC.

Execution Date(s) March 22, 2002

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

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

Name: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

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

Street Address: \_\_\_\_\_

1111 Franklin Street, 12th Floor

City: Oakland

State: California

Country: USA Zip: 94607-5200

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

**3. Nature of conveyance:**

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

**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)

6,160,651  
6,219,161  
6,233,075

Additional numbers attached?  Yes  No

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

Name: John P. O'Banion

Internal Address: O'BANION & RITCHEY LLP

Street Address: 400 Capitol Mall, Suite 1550

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State: California Zip: 95814

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**6. Total number of applications and patents involved:**

3

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 120**

- 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 07-1137

Authorized User Name John P. O'Banion

**9. Signature:**

[Signature]  
Signature

11/29/04  
Date

John P. O'Banion, Reg. No. 33,201

Name of Person Signing

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

7

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT**

**REEL: 015409 FRAME: 0453**

**700134513**

CH \$120.00 071137 6160651

**ASSIGNMENT**

WHEREAS, Telcordia Technologies, Inc., a Delaware corporation having offices at 445 South Street, Morristown, New Jersey 07960, ("Telcordia"), owns, by assignment, all right, title, and interest in US Letters Patent and US Patent Applications listed in Appendix A attached hereto, including any inventions claimed therein, related to inventions in Optical Label Switching Technology; and

WHEREAS, Regents of the University of California, on behalf of its Santa Barbara campus' College of Engineering (UCSB), looks forward to developing a mutually beneficial relationship with Science Applications International Corporation and its subsidiary, Telcordia Technologies, Inc, and desires to own Telcordia's entire right, title, and interest in and to the inventions, in all countries throughout the world, and in and to the US Letters Patent and Patent Applications listed in Appendix A;

WHEREAS, Telcordia and UCSP have entered into a Gift Agreement on even date herewith under which Telcordia has agreed to transfer all its rights, title and interests in such U.S. Letters Patent and US Patent Applications; and

NOW THEREFORE, be it known that, for good and valuable consideration, receipt of which is hereby acknowledged;

Subject to any licenses and rights previously granted, **TELCORDIA HEREBY** donates, assigns, transfers, and sets over to UCSB, its lawful successors and assigns, Telcordia's entire right, title, and interest in and to the US Issued Patents and US Patent Applications listed in Appendix A, the inventions claimed therein, and all Letters Patent of the United States that may be granted thereon, and all continuations, divisions, reissues, reexaminations, and extensions thereof; and all rights to claim priority on the basis of such application, and all applications for Letters Patent that have been or may be filed for the inventions in any foreign country and all Letters Patent that may be granted on the inventions in any foreign country, and all extensions, renewals, and reissues thereof; and Telcordia hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for these inventions to UCSB, its successors and assigns, in accordance with the terms of this Assignment;

**AND, TELCORDIA HEREBY** further covenants that Telcordia has the full right to convey the interest assigned by this Assignment, Telcordia will take all action and execute all documents necessary to perfect the interest assigned hereby, and Telcordia has not executed and will not execute any agreement in conflict with this Assignment;

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

*Grant Clark*  
Grant Clark, CVP and General Counsel  
Telcordia Technologies, Inc.

Date: 3/22/02

County of Morris )  
State of New Jersey ) ss:

Then personally appeared before me on the indicated date(s) the above-named Grant Clark, 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.

3/22/02  
Date

*Joseph A. D'Avanzo*

NOTARY PUBLIC  
JOSEPH A. D'AVANZO  
A NOTARY PUBLIC OF NEW JERSEY  
MY COMMISSION EXPIRES MARCH 25, 2006

**ATTACHMENT A**  
**US PATENT AND PATENT APPLICATIONS TO BE ASSIGNED TO**  
**UCSB**

FORM	PATENT or SERIAL NUMBER	ISSUE [Patent] or FILING [Application] DATE	TITLE
Patent	6,271,946	8/7/01	Optical Layer Survivability and Security System Using Optical Label Switching and High-Speed Optical Header Generation and Detection
Patent	6,233,075	5/15/01	Optical Layer Survivability and Security System
Patent	6,219,161	4/17/01	Optical Layer Survivability and Security System
Patent	6,160,651	12/12/00	Optical Layer Survivability and Security System Using Optical Label Switching and High-Speed Optical Header Reinsertion
Patent	6,111,673	08/29/00	High-Throughput, Low Latency Next Generation Networks Using Optical Tag Switching
Application	09/774,289	1/30/01	Optical Layer Multicasting Using a Single Sub-Carrier Header and a Multicast Switch with Active Header Insertion via Reflective Single Sideband Optical Processing
Application	09/774,264	1/30/01	Secure Optical Layer Multicasting To Effect Survivability
Application	09/772,508	1/30/01	Optical Layer Multicasting Using a Single Sub-Carrier Header and a Multicast Switch with Active Header Insertion via Single Sideband Optical Processing
Application	09/772,507	1/30/01	Optical Layer Multicasting Using Multiple Sub-Carrier Headers and a Multicasting Switch

FORM	PATENT or SERIAL NUMBER	ISSUE [Patent] or FILING [Application] DATE	TITLE
Application	09/772,504	1/30/01	Optical Layer Multicasting Using a Multiple Sub-Carrier Header and a Multicast Switch with Active Header Insertion via Reflective Single Sideband Optical Processing
Application	09/772,502	1/30/01	Optical Layer Multicasting Using a Single Sub-Carrier Header and a Multicast Switch with Active Header Detection
Application	09/772,492	1/30/01	Optical Layer Multicasting Using a Single Sub-Carrier Header with Active Header Detection, Deletion and New Header Insertion via Opto-Electrical Processing
Application	09/772,480	1/30/01	Optical Layer Multicasting Using a Multicasting Switch to Effect Survivability and Security
Application	09/772,479	1/30/01	Optical Layer Multicasting
Application	09/772,465	1/30/01	Optical Layer Multicasting Using a Single Sub-Carrier Header and a Multicast Switch with Active Header Insertion via Light Circulation
Application	09/772,430	1/30/01	Optical Layer Multicasting Using a Multiple Sub-Carrier Header with Header Detection, Deletion and Insertion via Transmit Single Sideband Optical Processing
Application	09/772,428	1/30/01	Optical Layer Multicasting Using a Multiple Sub-Carrier Header with Header Detection, Deletion and Insertion via Reflective Single Sideband Optical Processing
Application	09/772,415	1/30/01	Optical Layer Multicasting Switch

FORM	PATENT or SERIAL NUMBER	ISSUE (Patent) or FILING [Application] DATE	TITLE
Application	09/772,400	1/30/01	Optical Layer Multicasting Using a Single Sub-Carrier Header with Active Header Detection, Deletion and Re-Insertion via a Circulating Optical Path
Application	09/772,392	1/30/01	Optical Layer Multicasting Using a Single Sub-Carrier Header and an Optical Multicasting Switch
Application	09/772,387	1/30/01	Optical Layer Multicasting Using a Multiple Sub-Carrier Header and a Multicast Switch with Active Header Insertion via Single Sideband Optical Processing
Application	09/755,276	1/5/01	High-Throughput, Low-Latency Next Generation Internet Networks Using Optical Tag Switching
Application	09/436,472	11/8/99	High-Throughput, Low Latency Next Generation Networks Using Optical Tag Switching
Application	09/436,082	11/8/99	High-Throughput, Low Latency Next Generation Internet Networks Using Optical Label Switching and High-Speed Optical Header Generation, Detection, and Reinsertion
Application	09/353,228	07/14/99	High-Throughput, Low Latency Next Generation Internet Networks Using Optical Label Switching and High-Speed Optical Header Generation, Detection, and Reinsertion
Application	09/353,226	07/14/99	High-Throughput, Low Latency Next Generation Internet Networks Using Optical Label Switching and High-Speed Optical Header Generation, Detection, and Reinsertion

FORM	PATENT or SERIAL NUMBER	ISSUE [Patent] or FILING [Application] DATE	TITLE
Application	09/352,095	07/14/99	High-Throughput, Low Latency Next Generation Internet Networks Using Optical Label Switching and High-Speed Optical Header Generation, Detection, and Reinsertion
Application	09/339,995	06/25/99	High-Throughput, Low Latency Next Generation Internet Networks and High-Speed Optical Header Generation, Detection, and Reinsertion