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Form PTO-1595
(Rev. 10/02)

RECORDATION I
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DEPARTMENT OF COMMERCE
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OMB No. 0651-0027 (exp. 6/30/2005)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
FUMING WU and FREDERICK H. SKOOG

2. Name and address of receiving party(ies)
Name: ALCATEL, societe anonyme

Internal Address: _____

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Street Address: 54, rue La Boetie
75008 Paris

City: France State: _____ Zip: _____

Execution Date: 03/18/03

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

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

If this document is being filed together with a new application, the execution date of the application is: 03/18/03

A. Patent Application No.(s) _____

B. Patent No.(s) _____

10392227

Additional numbers attached? Yes No

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

Name: Jessica W. Smith, Esq.

Internal Address: Alcatel USA

Street Address: 3400 West Plano Parkway

M/S LEGL2

City: Plano State: TX Zip: 75075

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41),.....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

03-1130

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9. Signature.

Shreen K. Danamraj
Name of Person Signing

Signature

03/19/03
Date

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

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

10/392227
03/19/03

04 FEB 2003 10:48:13
40.00 DP

ASSIGNMENT

For one dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned does hereby sell, assign, and transfer to: Alcatel, a corporation organized and existing under the laws of France and having its principal place of business at 54, rue La Boétie, 75008 Paris, France ("Assignee"), its successors, assigns and legal representatives, the entire right, title and interest in and to any and all inventions which are described in the application for United States Patent identified below and to any and all improvements thereto.

The undersigned does hereby sell, assign, and transfer to Assignee the entire right, title and interest to all applications (including provisional, divisional, continuations, substitutions, reissues, and extensions), which have been or shall be filed in the United States and all foreign countries and under the terms of any treaties or conventions (including the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and the European Patent Convention) relating to said invention and any of said improvements; and in and to all rights of priority resulting from the filing of any such applications.


The undersigned agrees that Assignee may apply for and receive patents for said invention and improvements in its own name; and that, when requested, without charge to, but at the expense of, Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional, divisional, continuations, substitutions, reissues, extensions, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said inventions and improvements and the history thereof; and generally do everything possible which Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and improvements, and for vesting title to said invention and improvements, and all applications for patents and all patents on said invention and improvements, in Assignee, its successors, assigns and legal representatives.


The undersigned represents and warrants to Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Application for U.S. Patent entitled INTER-DOMAIN CONSTRAINT-BASED SHORTEST PATH FIRST TECHNIQUE FOR SUPPORTING HIERARCHICAL ROUTING IN INTERCONNECTED MULTI-DOMAIN OPTICAL TRANSPORT NETWORKS which

- Has been executed by the undersigned on _____, _____
- Has been executed by the undersigned concurrently herewith,
- Which was filed on _____, _____, and assigned Serial No. _____

IN TESTIMONY WHEREOF, I have duly executed this Assignment on the date indicated below:

Signature:  Date: 3/18/03
 Fuming Wu
 11401 Rio Secco Road, Frisco, TX 75035 USA 吴福明

Signature:  Date: 3/18/03
 Frederick H. Skoog
 127 Cheeksparger Road, Colleyville, TX 76034 USA

Signature: _____ Date: _____
 Inventor3
 Inv3Address

Signature: _____ Date: _____
 Inventor4
 Inv4Address

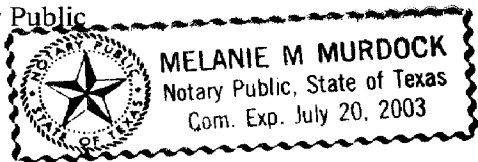
STATE OF Texas §

COUNTY OF Collin §

BEFORE ME, the undersigned authority, on this 18th day of March, 2003, personally appeared Fuming Wu, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this 18th day of March, 2003.

Melanie M Murdock
Notary Public



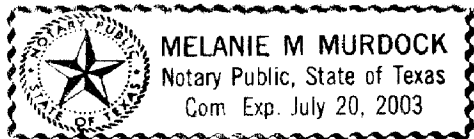
STATE OF Texas §

COUNTY OF Collin §

BEFORE ME, the undersigned authority, on this 18th day of March, 2003, personally appeared Frederick H. Skoog, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this 18th day of March, 2003.

Melanie M Murdock
Notary Public



STATE OF _____ §

COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this _____ day of _____, 200__, personally appeared Inventor3, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this _____ day of _____, 200__.

Notary Public

STATE OF _____ §

COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this _____ day of _____, 200__, personally appeared Inventor4, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this _____ day of _____, 200__.

Notary Public