

Form PTO-1595  
(Rev. 03/01)  
OMB No. 0651-0027 (exp. 5/31/2002)

RECO

12-30-2002

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office



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102324384

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

1. Name of conveying party(ies):

Mark Vilas  
Frederick Gruner  
Nazar Zaidi

12/27/02

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

2. Name and address of receiving party(ies)

Name: Juniper Networks, Inc.

Internal Address:

Street Address: 1194 N. Mathilda Ave.

City: Sunnyvale State: CA Zip: 94089

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: 8/30/02, 8/20/02, and 7/21/02

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

If this document is being filed together with a new application, the execution data of the application is:

A. Patent Application No.(s)  
10/105,993

B. Patent No.(s)

Additional numbers attached?  Yes  No

RECORDED  
DEC 23 AM 9 14  
FINANCIAL SECTION

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

Name: Allen M. Lo

Internal Address: Juniper Networks, Inc.

Street Address: 1194 N. Mathilda Ave.

City: Sunnyvale State: CA Zip: 94089

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:

50-1763

(Attach duplicate copy of this page if paying by deposit account)

12/27/2002 DBYRNE 00000005 501763 10105993

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9. 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.

Allen M. Lo  
Name of Person Signing

Signature

12-12-02  
Date

Total number of pages including cover sheet, attachments, and documents: 7

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

JOINT INVENTION  
(Worldwide Rights)

**ASSIGNMENT**

WHEREAS, WE, the below named inventors (hereinafter referred to as Assignors), have made an invention entitled:

**RING BASED MULTI-PROCESSING SYSTEM**

for which we filed an application for United States Letters Patent on March 25, 2002 (Serial No. 10/105,993); and

WHEREAS, Juniper Networks, Inc., a corporation of Delaware whose post office address is 1194 North Mathilda Avenue, Sunnyvale, California 94089-1206 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, we as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and we hereby authorize and request 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 this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, as reasonably appropriate, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything reasonably possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this

invention in the United States and any foreign country, it being understood that any expense incident to the foregoing shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, WE have hereunto set our hand.

David Hass  
1745 Nantucket Circle, Apt. #268  
Santa Clara, CA 95054

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Mark Vilas  
3209 Kilo Ave.  
San Jose, CA 95124

Signature: Mark Vilas

Date: 08/30/02

Frederick Gruner  
2069 Edgewood Drive  
Palo Alto, CA 94303

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Ramesh Panwar  
3544 Rocca Court  
Pleasanton, CA 94588

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Nazar Zaidi  
1525 Tainan Drive  
San Jose, CA 95131

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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3665 Benton St.  
Santa Clara, CA 95051

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Mark Vilas  
3209 Kilo Ave.  
San Jose, CA 95124

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Frederick Gruner  
2069 Edgewood Drive  
Palo Alto, CA 94303

Signature:  \_\_\_\_\_

Date: 8/20/02

Ramesh Panwar  
3544 Rocca Court  
Pleasanton, CA 94588

Signature: \_\_\_\_\_

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3544 Rocca Court  
Pleasanton, CA 94588

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Nazar Zaidi  
1525 Tainan Drive  
San Jose, CA 95131

Signature: *Nazar Zaidi*

Date: 7/21/02