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To the Honorable Commissioner of Page 10224	.d original documents or copy thereof.
Name of conveying party(ies): Unisphere Networks, Inc.	2. Name and address of receiving party(ies)
1 1	Name: Juniper Networks, Inc.
10/7/02	Internal Address:
Additional name of conveying party(ies) attached? ☐ Yes ☒ No	
Nature of conveyance:	Street Address: 1194 N. Mathilda Ave.
☐ Secuirty Agreement ☐ Change of Name	City: Sunnyvale State: CA Zip: 94089
☐ Other	Additional Name(s) & address(es) attached? ☐ Yes ☒ No
Execution Date: September 24, 2002	
 Application number(s) or patent number(s): If this document is being filed together with a new application. A. Patent Application No.(s). 09/237,128. 09/336,311. 09/336,229. 09/335,947. 09/336,090. Additional numbers attractions. 	n, the execution data of the application is: B. Patent No.(s) 7. 29 ached? Yes No
Name and address of party to whom correspondence concerning this document should be mailed:	6. Total number of applications and patents involved: 5
Name: Allen M. Lo	7. Total fee (37 CFR 3.41) \$ 200.00
Internal Address: Juniper Networks, Inc.	☐ Enclosed
	Authorized to be charged to deposit account
	8. Deposit account number:
Street Address: 1194 N. Mathilda Ave.	50-1763
City: Sunnyvale State: CA Zip: 94089	(Attach duplicate copy of this page if paying by deposit account)
DO NOT USE THIS SPACE	
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, Reg. 37,059 Name of Person Signing	September 27, 2002 Signature Date
Total number of pages including cover sheet, attachments, and documents: 5	
Mail documents to be recorded with required cover sheet information to:	

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

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ASSIGNMENT OF INVENTION

For good and valuable consideration, Unisphere Networks, Inc. ("Assignor"), a Delaware corporation, having a place of business at 10 Technology Park Drive, Westford, MA 01886. hereby assigns and transfers to Juniper Networks, Inc. ("Assignee"), a Delaware corporation, having a place of business at 1194 N. Mathilda Ave., Sunnyvale, CA 94089, the entire right, title and interest for the United States and its territorial possessions and in all foreign countries. including all rights to claim priority, in and to any and all inventions described and claimed in the patent applications listed in Exhibit A attached hereto; the patent applications listed in Exhibit A; all divisions, continuations, and continuations-in-part thereof; all patents issued thereupon; all reissues thereof; and all legal equivalents thereof in all foreign countries.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

34 day of <u>Sept</u>, 2002. ASSIGNOR Unisphere Networks, Inc. Vice President and Secretary STATE OF CALIFORNIA SS. COUNTY OF SANTA CLARA

IN WITNESS WHEREOF, I have hereunto set hand and seal this

On 9/24/02 before me, Heids Opstedal a notary public, personally appeared Lisa C. Berry, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signatures(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary Public
My Commission Expires: 1/19/03

HEIDI OPSTEDAL Commission # 1205737 Notary Public - California

Exhibit A

- U.S. Patent Application entitled "NETWORK PACKET FORWARDING LOOKUP WITH A REDUCED NUMBER OF MEMORY ACCESSES" filed on January 25, 1999, application serial number 09/237,128;
- U.S. Patent Application entitled "DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 09/336,229;
- U.S. Patent Application entitled "AN INTERCONNECT NETWORK FOR OPERATION WITHIN A COMMUNICATION NODE" filed on June 18, 1999, application serial number 09/336,090;
- U.S. Patent Application entitled "A QUALITY OF SERVICE FACILITY IN A DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 09/336,311;
- U.S. Patent Application entitled "METHOD AND SYSTEM FOR ENCAPSULATING/DECAPSULATING DATA ON A PER CHANNEL BASIS IN HARDWARE" filed on June 18, 1999, application serial number 09/335,947;

Australian Patent Application entitled "NETWORK PACKET FORWARDING LOOKUP WITH A REDUCED NUMBER OF MEMORY ACCESSES" filed on June 18, 1999, application serial number 46892/99;

Australian Patent Application entitled "DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 46973/99;

Australian Patent Application entitled "AN INTERCONNECT NETWORK FOR OPERATION WITHIN A COMMUNICATION NODE" filed on June 18, 1999, application serial number 46896/99:

Australian Patent Application entitled "A QUALITY OF SERVICE FACILITY IN A DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 49564/99;

Australian Patent Application entitled "METHOD AND SYSTEM FOR ENCAPSULATING/ DECAPSULATING DATA ON A PER CHANNEL BASIS IN HARDWARE" filed on June 18, 1999, application serial number 46975/99;

Canadian Patent Application entitled "NETWORK PACKET FORWARDING LOOKUP WITH A REDUCED NUMBER OF MEMORY ACCESSES" filed on June 18, 1999, application serial number;

Canadian Patent Application entitled "DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 2301911;

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Canadian Patent Application entitled "AN INTERCONNECT NETWORK FOR OPERATION WITHIN A COMMUNICATION NODE" filed on June 18, 1999, application serial number 2301853:

Canadian Patent Application entitled "A QUALITY OF SERVICE FACILITY IN A DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 2301823;

Canadian Patent Application entitled "METHOD AND SYSTEM FOR ENCAPSULATING/DECAPSULATING DATA ON A PER CHANNEL BASIS IN HARDWARE" filed on June 18, 1999, application serial number 2301763;

Chinese Patent Application entitled "NETWORK PACKET FORWARDING LOOKUP WITH A REDUCED NUMBER OF MEMORY ACCESSES" filed on June 18, 1999, application serial number 99801389.7;

Chinese Patent Application entitled "DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 99801401.X;

Chinese Patent Application entitled "AN INTERCONNECT NETWORK FOR OPERATION WITHIN A COMMUNICATION NODE" filed on June 18, 1999, application serial number 99801400.1;

Chinese Patent Application entitled "A QUALITY OF SERVICE FACILITY IN A DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 99801396.X;

Chinese Patent Application entitled "METHOD AND SYSTEM FOR ENCAPSULATING/DECAPSULATING DATA ON A PER CHANNEL BASIS IN HARDWARE" filed on June 18, 1999, application serial number 99801359.5;

European Patent Application entitled "NETWORK PACKET FORWARDING LOOKUP WITH A REDUCED NUMBER OF MEMORY ACCESSES" filed on June 18, 1999, application serial number 99930335.7;

European Patent Application entitled "DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 99930429.8;

European Patent Application entitled "AN INTERCONNECT NETWORK FOR OPERATION WITHIN A COMMUNICATION NODE" filed on June 18, 1999, application serial number 99930340.7;

European Patent Application entitled "A QUALITY OF SERVICE FACILITY IN A DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 99935520.1;

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European Patent Application entitled "METHOD AND SYSTEM FOR ENCAPSULATING/DECAPSULATING DATA ON A PER CHANNEL BASIS IN HARDWARE" filed on June 18, 1999, application serial number 99930431.4;

Israeli Patent Application entitled "NETWORK PACKET FORWARDING LOOKUP WITH A REDUCED NUMBER OF MEMORY ACCESSES" filed on June 18, 1999, application serial number 134610;

Israeli Patent Application entitled "DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 134611;

Israeli Patent Application entitled "AN INTERCONNECT NETWORK FOR OPERATION WITHIN A COMMUNICATION NODE" filed on June 18, 1999, application serial number 134612;

Israeli Patent Application entitled "A QUALITY OF SERVICE FACILITY IN A DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number 134615;

Israeli Patent Application entitled "METHOD AND SYSTEM FOR ENCAPSULATING/DECAPSULATING DATA ON A PER CHANNEL BASIS IN HARDWARE" filed on June 18, 1999, application serial number 134616;

PCT Patent Application entitled "NETWORK PACKET FORWARDING LOOKUP WITH A REDUCED NUMBER OF MEMORY ACCESSES" filed on June 18, 1999, application serial number US99/13634;

PCT Patent Application entitled "DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number US99/13857;

PCT Patent Application entitled "AN INTERCONNECT NETWORK FOR OPERATION WITHIN A COMMUNICATION NODE" filed on June 18, 1999, application serial number US99/13641;

PCT Patent Application entitled "A QUALITY OF SERVICE FACILITY IN A DEVICE FOR PERFORMING IP FORWARDING AND ATM SWITCHING" filed on June 18, 1999, application serial number US99/13805;

PCT Patent Application entitled "METHOD AND SYSTEM FOR ENCAPSULATING/DECAPSULATING DATA ON A PER CHANNEL BASIS IN HARDWARE" filed on June 18, 1999, application serial number US99/13859;