

07-23-1999

Attorney Docket No.: 08452/002001

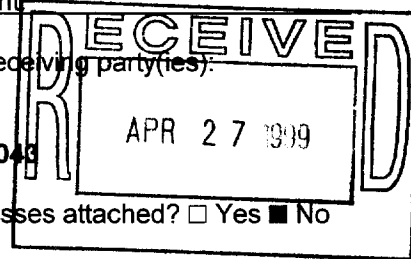
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Assistant Commissioner for Patents:

101078498

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1. Name of conveying party(ies): Pradeep S. Sindhu, Dennis C. Ferguson, Bjorn O. Lienres, Nalini Agarwal, Hann-Hwan Ju, Raymond Marcelino Mancese Lim, Rasoul Mirzazadeh Oskouy, and Sreeram Veeragandham

2. Name and address of receiving party(ies): Juniper Networks 385 Ravendale Drive Mountain View, CA 94043

Additional name(s) attached? [ ] Yes [x] No 4-27-99

Additional names/addresses attached? [ ] Yes [x] No

3. Nature of conveyance: [x] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other:

Execution Date: 2/5/98

4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s): 08/901,061

B. Patent No.(s):

Additional numbers attached? [ ] Yes [x] No

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

Mark D. Kirkland Fish & Richardson P.C. 2200 Sand Hill Road, Suite 100 Menlo Park, CA 94025

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41): \$40 [x] Enclosed [ ] Authorized to charge deposit account

8. Deposit account number: 06-1050 If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is a true copy of the original document.

David J. Goren Name of Person Signing

David Goren Signature

4/22/99 Date

Total number of pages including cover sheet, attachments, and document: 6

05/04/1999 DWGUYEN 00000145 08901061

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Date of Deposit 4/22/99 I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

May McCauley

PATENT

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12-01-1998

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Assistant Commissioner for Patent

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n original document.

Handwritten vertical text on the left margin.

Handwritten 'Correct' in the top left corner.

1. Name of conveying party(ies): Pradeep S. Sindhu, Dennis C. Ferguson, Bjorn O. Liencres, Nalini Agarwal, Hann-Hwan Ju, Raymond Marcelino Mancese Lim, Rasoul Mirzazadeh Oskouy, and Sreeram Veeragandham

2. Name and address of receiving party(ies): Juniper Network, 385 Ravendale Drive, Mountain View, CA 94043

Additional name(s) attached?  Yes  No

Additional names/addresses attached?  Yes  No

3. Nature of conveyance: [X] Assignment, [ ] Merger, [ ] Security Agreement, [ ] Change of Name, [ ] Other:

Execution Date: 2/5/98

4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No.(s): B. Patent No.(s):

Additional numbers attached?  Yes  No

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9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is a true copy of the original document.

Mark D. Kirkland, Name of Person Signing

Signature of Mark D. Kirkland

11/17/98, Date

Total number of pages including cover sheet, attachments, and document: 6

Date of Deposit 11/17/98

I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Handwritten signature of Mary McCann

PATENT

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ASSIGNMENT

For valuable consideration, we, Pradeep S. Sindhu, of Mountain View, California; Dennis C. Ferguson, of Mountain View, California; Bjorn O. Liencres, of Palo Alto, California; Nalini Agarwal, of Sunnyvale, California; Hann-Hwan Ju, of San Jose, California; Raymond Marcelino MarCese Lim, of Mountain View, California; Rasoul Mirzazadeh Oskouy, of Fremont, California, and Sreeram Veeragandham of Sunnyvale, California, hereby assign to Juniper Networks a California corporation having a place of business at 385 Ravendale Drive, Mountain View, California 94043, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled MEMORY ORGANIZATION IN A SWITCHING DEVICE, filed July 24, 1997, and assigned U.S. Serial Number 08/901,061, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at MOUNTAIN VIEW, this 5 day of Feb, 1998  
Pradeep S. Sindhu L.S.  
Pradeep S. Sindhu

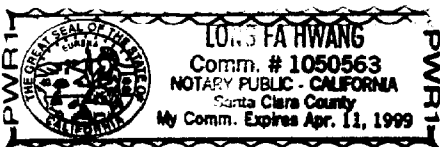
STATE OF CA. :  
COUNTY OF SANTA CLARA : ss.

Before me this 05 day of FEB, 1998, personally appeared Pradeep S. Sindhu known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

[Signature]  
Notary Public

My Commission Expires: 06-11-99

[Notary's Seal Here]



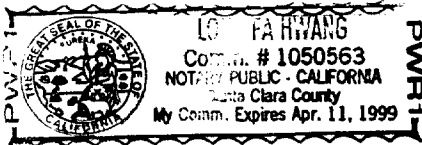
IN WITNESS WHEREOF, I hereto set my hand and seal at Mountain View,  
this 5<sup>th</sup> day of February, ~~1989~~ 1998

Dennis C. Ferguson L.S.  
Dennis C. Ferguson

STATE OF CA.:

COUNTY OF SANTA CLARA: :ss.

Before me this 5<sup>th</sup> day of FEB., 1998, personally appeared Dennis C. Ferguson known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



Lo Fa Hwang  
Notary Public

My Commission Expires: 04-11-99

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at MOUNTAIN VIEW,  
this 05 day of FEBRUARY, ~~1989~~ 1998

Bjorn O. Liencres L.S.  
Bjorn O. Liencres

STATE OF CA:

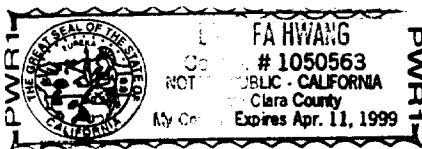
COUNTY OF SANTA CLARA: :ss.

Before me this 5<sup>th</sup> day of FEB., 1998, personally appeared Bjorn O. Liencres known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Bjorn O. Liencres  
Notary Public

My Commission Expires: 04-11-99

[Notary's Seal Here]

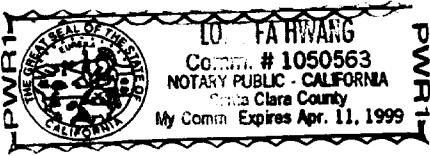


IN WITNESS WHEREOF, I hereto set my hand and seal at Mountain View,  
this 5<sup>th</sup> day of February 1998

Nalini Agarwal L.S.  
Nalini Agarwal

STATE OF CA :  
COUNTY OF SANTA CLARA :ss.

Before me this 5<sup>th</sup> day of FEB, 1998, personally appeared Nalini Agarwal known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



Lo Fa Hwang  
Notary Public

My Commission Expires: 04-11-99

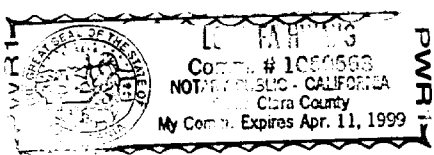
[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Mountain View,  
this 5<sup>th</sup> day of Feb, 1998

Hann-Hwan Ju L.S.  
Hann-Hwan Ju

STATE OF CA :  
COUNTY OF SANTA CLARA :ss.

Before me this 5<sup>th</sup> day of FEB, 1998, personally appeared Hann-Hwan Ju known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



Lo Fa Hwang  
Notary Public

My Commission Expires: 04-11-99

[Notary's Seal Here]

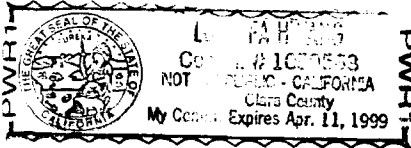
IN WITNESS WHEREOF, I hereto set my hand and seal at Mountain View,  
this 5<sup>th</sup> day of February, 1998

Raymond M Lim L.S.  
Raymond Marcelino Mancese Lim

STATE OF CA:

COUNTY OF SANTA CLARA: :ss.

Before me this 5<sup>th</sup> day of FEB, 1998, personally appeared Raymond Marcelino Mancese Lim known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



[Signature]  
Notary Public

My Commission Expires: 04-11-99

[Notary's Seal Here]

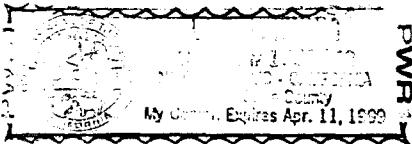
IN WITNESS WHEREOF, I hereto set my hand and seal at Mountain View,  
this 5<sup>th</sup> day of February, 1998

Rasoul Mirzazadeh Oskouy L.S.  
Rasoul Mirzazadeh Oskouy

STATE OF CA:

COUNTY OF SANTA CLARA: :ss.

Before me this 5<sup>th</sup> day of FEB, 1998, personally appeared Rasoul Mirzazadeh Oskouy known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



[Signature]  
Notary Public

My Commission Expires: 04-11-99

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at MOUNTAIN VIEW,

this 5<sup>th</sup> day of FEBRUARY, 1989 98

Sreeram Veeragandham L.S.  
Sreeram Veeragandham

STATE OF CA:

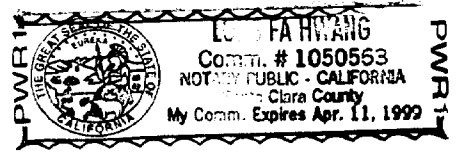
COUNTY OF SANTA CLARA: :ss.

Before me this 5<sup>th</sup> day of FEB, 19 98, personally appeared Sreeram Veeragandham known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

[Signature]  
Notary Public

My Commission Expires: 04-11-99

[Notary's Seal Here]



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