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*2/22/99*

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

1. Name of conveying party(ies):

Richard Crump  
Todd Short

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

Name: Bay Networks, Inc.

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

Additional names(s) of conveying party(ies)  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Street Address: 4401 Great American Parkway

City: Santa Clara State: CA ZIP: 95054

Execution Date: 11/9/98 and 12/31/98

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

4. Application number(s) or registration numbers(s):

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

A. Patent Application No.(s)

09/167,746

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Jeffrey T. Klayman

Internal Address: BROMBERG & SUNSTEIN LLP

Street Address: 125 Summer Street

City: Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: 1

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

19-4972

40.00 CP

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.

Jeffrey T. Klayman

Name of Person Signing

Signature

February 17, 1999

Date

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

02-25-1999 JMW/KIR 0000033 09167746

PATENT

REEL: 9777 FRAME: 0307

ASSIGNMENT

ASSIGNOR: Richard Crump  
Todd Short

ASSIGNEE: Bay Networks, Inc.  
4401 Great American Parkway  
Santa Clara, CA 95054

STATE OF INCORPORATION OF ASSIGNEE: Delaware

INVENTION: EFFICIENT RECOVERY OF MULTIPLE CONNECTIONS IN A  
COMMUNICATION NETWORK

ATTORNEY DOCKET: 2204/106

SERIAL NO: 09/167,746

FILED: October 7, 1998

Assignor is the sole inventor (if only one inventor is listed above) or a joint inventor (if more than one inventor is listed above) of the above invention (the "Invention") described in a United States patent application (the "Application") bearing the above attorney docket number and having as a title the above name for the Invention. The Application has a Patent and Trademark Office filing date and serial number as indicated above, or if no filing date and serial number are shown, has a Declaration executed by Assignor contemporaneously with this Assignment.

For valuable consideration, receipt of which is acknowledged, each Assignor hereby assigns to Assignee (which term shall include Assignee's successors and assigns), all of Assignor's right, title and interest in the Invention, all improvements therein, the Application and

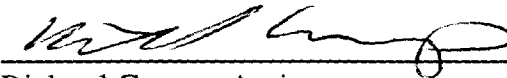
all priority rights arising therefrom, and any patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application, any divisional, continuation-in-whole, or substitute United States application which is based on the Application; or any continuation-in-part United States application (including divisions, continuations-in-whole or -in-part, and substitutions thereof or therefor) based in-part on any of the above described applications.

Each Assignor further agrees that such Assignor and Assignor's heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignor relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Each Assignor further agrees that such Assignor will, without further compensation to Assignor during the term of such Assignor's employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

IN WITNESS WHEREOF, each Assignor hereby executes this instrument on the date set

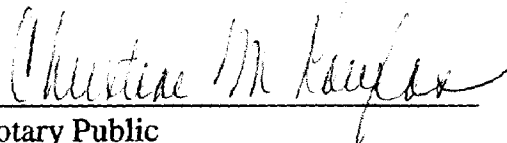
forth below.

Date: Dec 31, 1998

  
Richard Crump, Assignor

COMMONWEALTH OF MASSACHUSETTS )  
 ) ss.  
COUNTY OF Middlesex )

Before me, a notary public in and for said county and state, personally appeared Richard Crump, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the foregoing instrument in my presence and declared the same to be his free act and deed on the date written above opposite his signature.

  
Notary Public  
My Commission Expires **CHRISTINE M. KOUFOS**  
Notary Public  
My Commission Expires April 2, 2004

(seal)

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

\_\_\_\_\_  
Todd Short, Assignor

COMMONWEALTH OF MASSACHUSETTS )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

Before me, a notary public in and for said county and state, personally appeared Todd Short, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the foregoing instrument in my presence and declared the same to be his free act and deed on the date written above opposite his signature.

\_\_\_\_\_  
Notary Public  
My Commission Expires:

(seal)

74235

ASSIGNMENT

ASSIGNOR: Richard Crump  
Todd Short

ASSIGNEE: Bay Networks, Inc.  
4401 Great American Parkway  
Santa Clara, CA 95054

STATE OF INCORPORATION OF ASSIGNEE: Delaware

INVENTION: EFFICIENT RECOVERY OF MULTIPLE CONNECTIONS IN A  
COMMUNICATION NETWORK

ATTORNEY DOCKET: 2204/106

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For valuable consideration, receipt of which is acknowledged, each Assignor hereby assigns to Assignee (which term shall include Assignee's successors and assigns), all of Assignor's right, title and interest in the Invention, all improvements therein, the Application and

all priority rights arising therefrom, and any patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application, any divisional, continuation-in-whole, or substitute United States application which is based on the Application; or any continuation-in-part United States application (including divisions, continuations-in-whole or -in-part, and substitutions thereof or therefor) based in-part on any of the above described applications.

Each Assignor further agrees that such Assignor and Assignor's heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignor relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Each Assignor further agrees that such Assignor will, without further compensation to Assignor during the term of such Assignor's employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

IN WITNESS WHEREOF, each Assignor hereby executes this instrument on the date set

forth below.

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

Richard Crump, Assignor

COMMONWEALTH OF MASSACHUSETTS )

) ss.

COUNTY OF )

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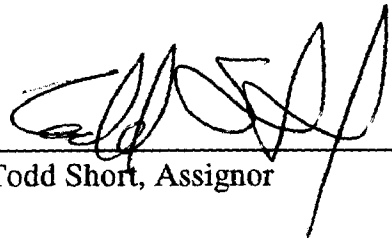
Notary Public

My Commission Expires:

(seal)

Date: 11/9/98

Todd Short, Assignor



COMMONWEALTH OF MASSACHUSETTS )

) ss.

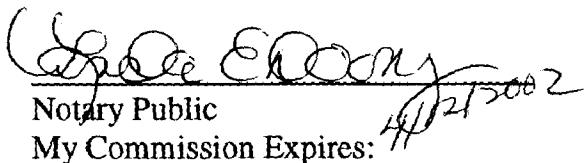
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Notary Public

My Commission Expires:

(seal)



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