Docket No.: 2204/129

FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp.4/94) Copyright 1994-97 LegalStar P08/REV02 Tab settings -

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

101293097 To the Honorable Commissioner of Patents and traueman aned original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): ∠unzhou Li **Shuching Shieh** MAR 1 3 2000 Name: Nortel Networks Corporation Internal Address: World Trade Center of Montreal Additional names(s) of conveying party(ies) ☐ Yes 🛛 No 3. Nature of conveyance: Street Address: 380 St. Antoine Street West, 8th Floor. Merger Montreal, Quebec H2Y 3Y4, Canada ☐ Security Agreement ☐ Change of Name ☐ Other \_\_\_\_\_State: ZIP: Execution Date: 1/25/00 and 3/8/00 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) B. Patent No.(s) 09/450,100 ☐ Yes 🛛 No Additional numbers attached? 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: Jeffrey T. Klayman 7. Total fee (37 CFR 3.41):....\$ 40.00 Internal Address: BROMBERG & SUNSTEIN LLP Enclosed - Any excess or insufficiency should be credited or debited to deposit account Authorized to be charged to deposit account 01 FC:541 Street Address: 125 Summer Street 8. Deposit account number: City: Boston \_\_\_\_\_ State: MA ZIP: 02110 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 March 10, 2000 Name of Person Signing

Signature

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

REEL: 010610 FRAME: 0573

Date

## ASSIGNMENT

ASSIGNOR: Yunzhou Li

Shuching Shieh

ASSIGNEE:

Nortel Networks Corporation

World Trade Center of Montreal

380 St. Antoine Street West, 8th Floor

Montreal, Quebec H2Y 3Y4

Canada

STATE OF INCORPORATION OF ASSIGNEE: N/A

SYSTEM, DEVICE, AND METHOD FOR REDUCING MULTICAST <u>INVENTION</u>:

FORWARDING STATES IN A MULTICAST COMMUNICATION

**SYSTEM** 

ATTORNEY DOCKET:

2204/129

**SERIAL NO:** 

09/450,100

FILED:

November 29, 1999

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

> PATENT REEL: 010610 FRAME: 0574

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.

-2-

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

Shuching Shieh, Assignor

Date: 1/25/2000 Chember Yunzhou Li, Assignor

for Yunzhou Li DALY

105273

## **ASSIGNMENT**

ASSIGNOR:

Yunzhou Li

Shuching Shieh

ASSIGNEE:

Nortel Networks Corporation

World Trade Center of Montreal

380 St. Antoine Street West, 8th Floor

Montreal, Quebec H2Y 3Y4

Canada

STATE OF INCORPORATION OF ASSIGNEE: N/A

**INVENTION**:

SYSTEM, DEVICE, AND METHOD FOR REDUCING MULTICAST

FORWARDING STATES IN A MULTICAST COMMUNICATION

**SYSTEM** 

ATTORNEY DOCKET:

2204/129

SERIAL NO:

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November 29, 1999

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

PATENT REEL: 010610 FRAME: 0577 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.

Date:	Yunzhou Li, Assignor	_
forth below.		
<u> </u>	ignor hereby executes this instrument on the	

Date: 3/8/2000

Shuching Shieh Assignor

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