

01-16-2001

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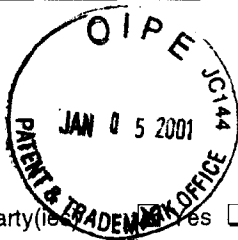
U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

101581607

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

1. Name of conveying party(ies):

Thomas P. Hardjono
Bradley CainAdditional names(s) of conveying party(ies) Yes ☐ No

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

Name: Nortel Networks Limited

Internal Address: World Trade Center of Montreal

Street Address: 380 St. Antoine Street West, 8th Floor

Montreal, Quebec H2Y 3Y4, Canada

City: State: ZIP:

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: October 25, 2000 and November 13, 2000

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)

09/660,110

1/10/2001 AWCHDAFL 00000032 194972 09660110

05 10:30 24.00 CH 16.00 OP

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

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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.

Jeffrey T. Klayman

Signature

January 3, 2001

Date

Name of Person Signing

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

PATENT
REEL: 011413 FRAME: 0457

ASSIGNMENT

ASSIGNOR: Thomas P. Hardjono
Bradley Cain

ASSIGNEE: Nortel Networks Limited
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 RECEIVER ACCESS
CONTROL IN A MULTICAST COMMUNICATION SYSTEM

ATTORNEY DOCKET: 2204/A45

SERIAL NO: 09/660,110

FILED: September 12, 2000

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

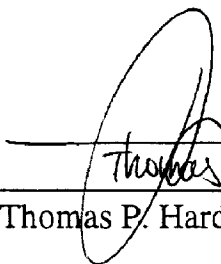
all priority rights arising therefrom, and any patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application, any divisional, continuation-in-whole, or substitute United States application which is 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: Oct/25/2000



Thomas P. Hardjono, Assignor

Date: _____

Bradley Cain, Assignor

132579

ASSIGNMENT

ASSIGNOR: Thomas P. Hardjono
Bradley Cain

ASSIGNEE: Nortel Networks Limited
World Trade Center of Montreal
380 St. Antoine Street West, 8th Floor
Montreal, Quebec H2Y 3Y4
Canada

STATE OF INCORPORATION OF ASSIGNEE: N/A

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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.

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

forth below.

Date: _____

Thomas P. Hardjono, Assignor

Date: 11-13-00



Bradley Cain, Assignor

132579

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