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Form PTO-1595
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PATENTS ONLY

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

1. Name of conveying party(ies):
Takumi HASEGAWA
MED
1-19-99
Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)?
NEC CORPORATION
7-1, Shiba 5-chome
Minato-ku, Tokyo, Japan
Additional name(s) & address(es) attached?
 yes no

JCS51 U.S. PTO
09/234110
01/19/99

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Names
 Other

Execution Date: January 5, 1999
4. Application number(s) or patent number(s):
09/234,110
If this document is being filed together with a new application the execution date of the application is January 5, 1999
A. Patent Application No.(s)
B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:
1
7. Total Fee (37 CFR 3.41): \$40.00
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880
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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.
Frank Osta
Frank Osta Reg. No. 24,625
January 19, 1999
Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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Map documents to be recorded with required cover sheet information to:

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01/29/1999 DNGUYEN 00000110 09234110

01 FC:581 40.00 OP

PATENT
REEL: 9718 FRAME: 0039

Assignment

Whereas, I/~~We~~, TAKUMI HASEGAWA of
Tokyo, Japan

hereinafter called assignor(s) have invented certain improvements in

PATH COMPRESSION SYSTEM FOR COMPRESSING PATH IN GRAPH
INFORMATION AND PATH COMPRESSION METHOD THEREOF

and executed an application for Letters Patent of the United States of America therefor on
January 5, 1999 ; and

Whereas, NEC Corporation
7-1, Shiba 5-chome, Minato-ku,
Tokyo, Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention and
to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt where of is hereby acknowledged,

I/~~XXX~~, the above named assignor(s), hereby sell, assign and transfer to the above named assignee,
its successors and assigns, the entire right, title and interest in the application and the invention
disclosed therein for the United States of America, including the right to claim priority under
35 U.S. Code 119, and I/~~XX~~ request the Commissioner of Patents to issue any Letters Patent granted
upon the invention set forth in the application to the assignee, its successors and assigns; and I, ~~XX~~
will execute without further consideration all papers deemed necessary by the assignee in connection
with the United States application when called upon to do so by the assignee.

Signed at Tokyo, Japan on January 5, 1999

Takumi Hasegawa 
TAKUMI HASEGAWA

Witness

Date

Ezuru Sakurai January 5, 1999

[Signature] January 5, 1999