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Form PTO-1595  
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ruixue FAN, Brian L. Mark, Gopalakrishan RAMAMURTHY,  
and Alexander T. ISHII

Additional name(s) of conveying party(ies) attached?  
 yes  no

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

Name: NEC USA, INC.  
C & C Research Laboratories

Street Address:  
4 Independence Way

City State Zip  
Princeton, NJ 08540

Additional name(s) & address(es) attached?  
 yes  no

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: March 13, 1998

4. Application number(s) or patent number(s):

09/040,311

If this document is being filed together with a new application, the execution date of the application is: March 13, 1998.

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:

Howard L. Bernstein, Esq.  
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3202

6. Total number of applications and patents 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.

Howard L. Bernstein 25,665  
Name Reg. No.

March 18, 1998  
Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 4

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Mail documents to be recorded with required cover sheet information to:  
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Jc398 U.S. PTO  
09/040311  
03/18/98

**ASSIGNMENT**  
(from Inventor to NEC USA, Inc.)

**WHEREAS**, We, Ruixue FAN, Brian L. MARK, Gopalakrishan RAMAMURTHY and Alexander T. Ishii

hereinafter called assignor(s), have invented certain improvements in

**TIME-BASED SCHEDULER ARCHITECTURE AND METHOD FOR ATM NETWORKS**

and have executed an application for Letters Patent of the United States of America therefor on \_\_\_\_\_  
; and

**WHEREAS**, NEC USA, Inc.  
C & C Research Laboratories  
4 Independence Way  
Princeton, NJ 08540

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

**NOW THEREFORE**, for valuable consideration, receipt whereof is hereby acknowledged,

We, 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, and we request the United States Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application(s) to the assignee, its successors and assigns; and we hereby agree that we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application(s) when called upon to do so by the assignee.

We hereby authorize and request our attorneys **SUGHRUE, MION, ZINN, MACPEAK & SEAS** of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3202 to insert here in parentheses (Application Number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: Mar. 13, 1998

Ruixue Fan  
Signature

Ruixue Fan  
First Name Middle Initial Last Name

NOTARY

State of New Jersey)  
County of Middlesex) ss:

On this 13th day of March, before me personally came Ruixue Fan  
\_\_\_\_\_, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

Helen Chapko  
Notary

**HELEN CHAPKO**  
**NOTARY PUBLIC OF NEW JERSEY**  
**MY COMMISSION EXPIRES FEB. 6, 2002**



**ASSIGNMENT**  
(from Inventor to NEC USA, Inc.)

Date: Mar. 13, 1998

Alexander T. Ishii  
Signature

Alexander                      T.                      Ishii  
First Name                      Middle Initial                      Last Name

NOTARY

State of New Jersey)  
County of Middlesex) ss:

On this 13th day of March, before me personally came Alexander T. Ishii, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

Helen Chapko  
Notary

**HELEN CHAPKO  
NOTARY PUBLIC OF NEW JERSEY  
MY COMMISSION EXPIRES FEB. 6, 2002**