

12-17-2002



A8336

Form PTO-1595 (modified)

(Rev. 03/01)

OMB No. 0651-0027

HEET

U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

102313774

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

1. Name of conveying party(ies):

Malay GANAI
Zhang LINTAO
Aarti GUPTA
Zijiang YANG
Pranav ASHAR

12-12-02

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

NEC USA, INC.
4 Independence Way
Princeton, New Jersey 08540

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☒ Other To correct the Assignee's Name at Reel
013243, Frame 0050

Execution Date: July 23, 2002; July 24, 2002; July 24,
2002; August 7, 2002; and July 24, 2002; respectively

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

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

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

A. Patent Application No.(s)
10/157,486

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, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:

1

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

- ☒ Enclosed.
☐ Authorized to be charged to Deposit Account No. 19-4880.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

8. Deposit Account Number:

19-4880

(Attach duplicate copy of this page if paying by deposit account)

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.

(Signature)

Chidambaram Subramanian

Reg. No. 43,355

December 12, 2002

Date

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

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

Commissioner of Patents & Trademarks

Box Assignment

Washington, D.C. 20231

12/17/2002 LMUELLER 00000050 10157486

01 FC:8021

40.00 DP

PATENT
REEL: 013568 FRAME: 0539

ASSIGNMENT
(from Inventor to NEC USA, Inc.)

WHEREAS, We, Malay GANAI, Lintao ZHANG, Aarti GUPTA, Zijiang YANG, and Pranav ASHAR,

hereinafter called assignors, have invented certain improvements in

EFFICIENT APPROACHES FOR BOUNDED MODEL CHECKING

and have executed an application for Letters Patent of the United States of America therefor on May 30, 2002 and the application having been assigned U.S. Application No. 10/157,486; and

WHEREAS, NEC USA, Inc.
4 Independence Way
Princeton, New Jersey 08540

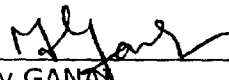
(assignee) desires to acquire the entire right, title, and interest in the application and invention for the United States of America, and to any United States patents to be obtained therefrom;

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

We, the above named assignors, hereby sell, assign and transfer to the above-named assignee, its successors and assigns, the entire right, title, and interest in the invention disclosed therein for the United States of America, and we request the 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, PLLC, of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3202 to insert here in parentheses (Application Number 10/157,486, filed May 30, 2002) the filing date and application number of said application when known.

Date: 07/23/02




Malay GANAI

NOTARY

State of New Jersey)
County of Mercer) ss:

On this 23 day of July 2002, before me personally came Malay GANAI, 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.



Notary

ANN K. MEIGHAN
Notary Public of New Jersey
My Comm. Exp. March 12, 2003

Date: 07/24/2002

Lintao ZHANG
Lintao ZHANG

NOTARY

State of New Jersey)
County of Mercer) ss:

On this 24 day of July 2002, before me personally came Lintao ZHANG, 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.

Ann K. Meighan
Notary ANN K. MEIGHAN
Notary Public of New Jersey
My Comm. Exp. March 12, 2003

Date: 7/24/02

Aarti Gupta
Aarti GUPTA

NOTARY

State of New Jersey)
County of Mercer) ss:

On this 24 day of July 2002, before me personally came Aarti GUPTA, 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.

Ann K. Meighan
Notary ANN K. MEIGHAN
Notary Public of New Jersey
My Comm. Exp. March 12, 2003

Date: 08/07/02

Zijiang YANG
Zijiang YANG

NOTARY

State of New Jersey)
County of Mercer) ss:

On this 7 day of August 2002, before me personally came Zijiang YANG, 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.

Ann K. Meighan
Notary ANN K. MEIGHAN
Notary Public of New Jersey
My Comm. Exp. March 12, 2003

Date: 7/24/02

Pranav ~ Ashar
Pranav ASHAR

NOTARY

State of New Jersey)
County of Mercer ss:

On this 24 day of July 2002, before me personally came Pranav ASHAR, 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.

Ann K. Meighan
Notary ANN K. MEIGHAN
Notary Public of New Jersey
My Comm. Exp. March 12, 2003



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: A8336

Malay GANAI, et al.

Appln. No.: 10/157,486

Group Art Unit: 2123

Confirmation No.: 7813

Examiner: Not Yet Assigned

Filed: May 30, 2002

For: EFFICIENT APPROACHES FOR BOUNDED MODEL CHECKING

**REQUEST FOR CORRECTED NOTICE OF RECORDATION OF
ASSIGNMENT DOCUMENT**

U.S. Patent and Trademark Office

Assignment Division

BOX ASSIGNMENT

North Tower Building, Suite 10C35

Washington, D.C. 20231

Sir:

We enclose copies of the NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT and Assignment which were recorded in the Patent Office at Reel 013243, Frame 0050, and request correction as follows:

ASSIGNEE: [NEC CORPORATION] NEC USA, INC.

Since the need for correction was caused by our office, a check in the amount of \$40.00, along with a new PTO-1595 form is attached. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,

Chidambaram Subramanian
Registration No. 43,355

SUGHRUE MION, PLLC
2100 Pennsylvania Avenue, N.W.
Washington, D.C. 20037-3213
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

Date: December 12, 2002



NOVEMBER 15, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

SUGHRUE MION, PLLC
HOWARD L. BERNSTEIN
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, D.C. 20037-3213



102211794A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/28/2002

REEL/FRAME: 013243/0050
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GANAI, MALAY

DOC DATE: 07/23/2002

ASSIGNOR:

LINTAO, ZHANG

DOC DATE: 07/24/2002

ASSIGNOR:

GUPTA, AARTI

DOC DATE: 07/24/2002

ASSIGNOR:

YANG, ZIJIANG

DOC DATE: 08/07/2002

ASSIGNOR:

ASHAR, PRANAV

DOC DATE: 07/24/2002

ASSIGNEE:

NEC CORPORATION] NEC USA, INC.
4 INDEPENDENCE WAY
PRINCETON, NEW JERSEY 08540

PATENT
REEL: 013568 FRAME: 0544

SERIAL NUMBER: 10157486
PATENT NUMBER:

FILING DATE: 05/30/2002
ISSUE DATE:

ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS