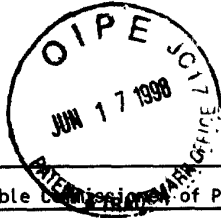


Form PTO-1595
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06-23-1998



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PATENTS ONLY

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A-7115

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

1. Name of conveying party(ies):

Sujit DEY and Anand RAGHUNATHAN

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

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

NEC USA, INC.
C & C Research Laboratories
4 Independence Way
Princeton, NJ 08540

3. Nature of Conveyance:

XX Assignment ___ Merger
___ Security Agreement ___ Change of Name
___ Other

Additional name(s) & address(es) attached?
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Execution Date: June 1, 1998 and May 7, 1998

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)
09/089,388

B. Patent No(s).

Additional numbers attached? ___ Yes XX 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. 20037-3202

6. Total number of applications and patents involved:

ONE (1)

7. Total Fee (37 CFR 3.41): \$ 40.00
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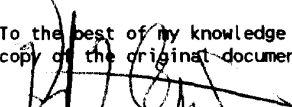
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9. Statement and Signature.

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

Reg. No. 25,665

June 17, 1998

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 3

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PATENT
REEL: 9248 FRAME: 0839

06/22/1998 00000130 00089388 40.00 OP 01 FC:581

ASSIGNMENT

(from Inventor to NEC USA, Inc.)

WHEREAS, I, Anand Raghunathan

hereinafter called assignor(s), jointly with Sujit Dey, Ganesh Lakshminarayana and Niraj K. Jha have invented certain improvements in

CONSTRAINED REGISTER SHARING TECHNIQUE FOR LOW POWER VLSI DESIGN

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

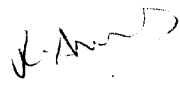
(assignee) desires to acquire the entire right, title, and interest in the application and invention for the United States of America, and to any United States patents to be obtained therefor;

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

I, 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 I 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 I hereby agree that I 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.

I hereby authorize and request our attorneys **SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC** 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: 5/7/98



Signature

ANAND

First Name

Middle Initial

RAGHUNATHAN

Last Name

NOTARY

State of NEW JERSEY
County of MORRIS ss:

On this 5th day of June 1998, before me personally came ANAND RAGHUNATHAN, 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

THE YOUNG PATENT
ATTORNEYS
100 NEW JERSEY
STREET, SUITE 200
NEWARK, NJ 07102
PHONE: 973-261-0099
FAX: 973-261-0098
TELETYPE: 973-261-0097
TELEFAX: 973-261-0096
WWW.TYPA.COM

ASSIGNMENT

(from Inventor to NEC USA, Inc.)

WHEREAS, I, Sujit Dey

hereinafter called assignor(s), jointly with Anand Raghunathan, Ganesh Lakshminarayana and Niraj K. Jha have invented certain improvements in

CONSTRAINED REGISTER SHARING TECHNIQUE FOR LOW POWER VLSI DESIGN

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,

I, 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 I 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 I hereby agree that I 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.

I hereby authorize and request our attorneys **SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC** 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:

6/1/98

Signature

Sujit Dey

SUJIT
First Name

Middle Initial

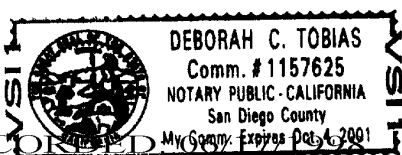
DEY

Last Name

NOTARY

State of CA
County of San Diego ss:

On this 1th day of June, before me personally came Sujit Dey, 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

Deborah C. Tobias

PATENT

REEL: 9248 FRAME: 0841