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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
Docket No.: UPM-01301

1. Name of conveying party(ies), 102575026

Hiroyuki TAKAHASHI
Additional name(s) of conveying party(ies) attached?

Yes No

Nature of conveyance:

(X) Assignment () Merger
() Security Agreement () Change of Name
() Other:

Execution Date: May 27, 2003

Name and address of receiving party(ies)
Name: NEC Electronics Corporation
Internal Address: _____

Street Address: 1753, Shimonumabe, Nakahara-ku
Kawasaki, Kanagawa, 211-8668 Japan

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

3. Application number(s) or patent number(s): 101433130
If this document is being filed together with a new application, the execution date of the applications is: May 27, 2003

A. Patent Application No.(s) B. Patent No.(s)
Additional numbers attached? Yes No

4. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent Group
Internal Address: Choate, Hall & Stewart
Street Address: Exchange Place, 53 State Street
City: Boston State: MA ZIP: 02109-2804

5. Total number of applications and patents involved: 1

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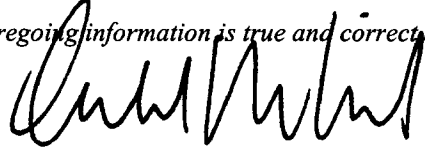
6. Total fee (37 CFR 3.41).....\$40.00
(X) Enclosed
____ Authorized to be charged to deposit account

7. Deposit account number:

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

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8. 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.

Donald W. Muirhead; 33,978  May 29, 2003
Name of Person Signing Signature Date
Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required covered sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
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ASSIGNMENT

WHEREAS, each of the undersigned has developed certain inventions described in a U.S. patent application entitled semiconductor memory device and address conversion circuit

- (x) executed on even date herewith,
() executed on _____,
() now U.S. Patent No _____ filed on _____

and has full right to convey their entire interest both legal and equitable in and to said inventions free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever, and

WHEREAS, NEC Electronics Corporation ("ASSIGNEE"), a Japanese corporation having executive offices at 1753, Shimonumabe, Nakahara-ku, Kawasaki, Kanagawa, 211-8668, Japan is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor,

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by each of the undersigned, each of the undersigned hereby sells, assigns, transfers and sets over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to said invention or inventions, as described in the aforesaid application, and all applications resulting therefrom, including any and all divisionals, continuations, continuations-in-part, substitute applications, and reissues or extensions thereof; and all resulting patents;

AND, each of the undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns, each of the undersigned agrees that the attorney of record shall hereinafter act on behalf of said ASSIGNEE;

AND, each of the undersigned further agrees, without any further payment or compensation by said ASSIGNEE or its successors and assigns, to communicate to said ASSIGNEE, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested, to testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective, and generally to do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country,

Each of the undersigned hereby authorizes Choate, Hall & Stewart of Exchange Place, 53 State Street, Boston Ma. 02109, to insert hereon any further identification information necessary or desirable for recordation of this document

Inventor(s) Date Signed Witness
1. Hiroyuki Takahashi May 27, 2003 Hitoshi Uka
Name: Hiroyuki TAKAHASHI
2. Name:
3. Name:
4. Name:

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