
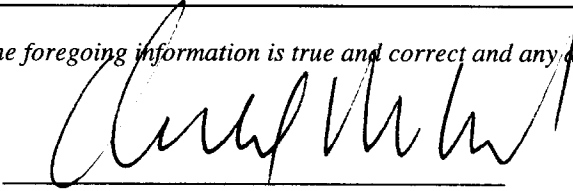


Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005)	<b>RECORDATION</b> 2004 FEB 17	02-19-2004 	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Docket No.: UPM-01901
1. Name of conveying party(ies): Hiroyuki TAKAHASHI; Hideo INABA; Atsushi NAKAGAWA Additional name(s) of conveying party(ies) attached? Yes ___ No <b>X</b>		2. Name and address of receiving party(ies) Name: <u>NEC Electronics Corporation</u> Internal Address: _____ _____ Street Address: <u>1753 Shimonumabe, Nakahara-ku</u> <u>Kawasaki, Kanagawa 211-8668, Japan</u> Additional name(s) & address(es) attached? Yes ___ No <b>(X)</b>	
3. Nature of conveyance: (X) Assignment                      ( ) Merger ( ) Security Agreement            ( ) Change of Name ( ) Other: Execution Date: October 6, 2003		4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the applications is:	
A. Patent Application No.(s) <u>10/473,656</u>		B. Patent No.(s)	
Additional numbers attached? Yes ___ No <b>X</b>			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Patent Group</u> Internal Address: <u>Choate, Hall &amp; Stewart</u> Street Address: <u>Exchange Place, 53 State Street</u> City: <u>Boston</u> State: <u>MA</u> ZIP: <u>02109-2804</u>		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> (X) Enclosed _____ Authorized to be charged to deposit account 8. Deposit account number: _____ (Attached duplicate copy of this page if paying by deposit account)	
<b>DO NOT USE THIS SPACE</b>			
9. Statement and signature. <i>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.</i> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="width: 30%;"> <u>Donald W. Muirhead; 33,978</u>            Name of Person Signing         </div> <div style="width: 30%; text-align: center;">             Signature         </div> <div style="width: 30%; text-align: right;"> <u>February 11, 2004</u>            Date         </div> </div> <div style="text-align: center; margin-top: 10px;">         Total number of pages including cover sheet, attachments, and document: <u>2</u> </div>			
Mail documents to be recorded with required covered sheet information to: Director of the U.S. Patent & Trademark Office, Mail Stop <u>Assignment Recordation Services</u> P.O. Box 1450, Alexandria, VA 22313-1450			

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**PATENT**  
**REEL: 014976 FRAME: 0966**

ASSIGNMENT

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

(x) executed on even date herewith,

( ) executed on \_\_\_\_\_,

(X) now U.S. Patent No 10/473,656 filed on 10/02/2003,

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

<u>Inventor(s)</u>	<u>Date Signed</u>	<u>Witness</u>
1. <u>Hiroiyuki Takahashi</u> Name: Hiroiyuki TAKAHASHI	<u>October 6, 2003</u>	<u>Atsushi Nakagawa</u>
2. <u>Hideo Inaba</u> Name: Hideo INABA	<u>October 6, 2003</u>	<u>Atsushi Nakagawa</u>
3. <u>Atsushi Nakagawa</u> Name: Atsushi NAKAGAWA	<u>October 6, 2003</u>	<u>Atsushi Nakagawa</u>
4. _____ Name: _____	_____	_____