02-06-2003

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Form PTO-1595			T U.S. DEPARTMENT OF COMMERCE	
(Rev. 5/39)			Patent and Trademark Office	
OMB No. 0651-0011 (exp. 4/94)	10235383	35	Docket No.: SIM-01801	
1 Name of the state of the stat				
1. Name of conveying party(ies):	2	 Name and add Name: 	lress of receiving party(ies) NEC Corporation	
Hiroyuki TAKAHASHI; Hideo INABA; I	Masatoshi			
SONODA; Yoshiyuki KATO; Atsushi NA		Internal Addre	ess:	
Additional name(s) of conveying party(ies)	attached?			
YesNo <u>X</u>		Street Address	s: 7-1 Shiba 5 chome	
Nature of conveyance:			Minato-ku, Tokyo JAPAN	
() Other:	r ge of Name	Additional nar	me(s) & address(es) attached? Yes No X	
Execution Date: August 29, 2002				
3. Application number(s) or patent number(s)):			
A. Patent Application No.(s)	th a new application, the			
	tional numbers attached	B. Paten	t No.(s)	
4. Name and address of party to whom corre			of applications and patents involved: 1	
concerning document should be mailed:	3.	. Total number	or applications and patents involved:	
Name: Patent Group Internal Address: Choate, Hall & Stewart				
Street Address: Exchange Place, 53 State St	treet			
City: Boston State: MA ZIP: 02109-2804	4			
	6.	Total fee (37 C	CFR 3.41)\$40.00	
		(X) Enclosed		
		Authori	zed to be charged to deposit account	
	7.	Deposit accoun	nt number:	
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 Statement and signature. To the best of my knowledge and belief, the true copy of the original document. Donald W. Muirhead; 33,978 	foregoing information	js truefand cofri WMU	ect and any attached copy is a September 6, 2002	
Name of Person Signing	Signatu		Date	
Total number of pages including cover sheet, attachments, and document: 3 Mail documents to be recorded with required covered sheet information to:				
	enis to be recorded with requir missioner of Patents & Trader Washington D.C.	marks, Box Assignmen		

ASSIGNMENT

WHEREAS, each of the Undersigned has developed certain inventions described in U.S. patent application entitled:

SEMICONDUCTOR MEMORY DEVICE

(X)	executed on even date herewith;		
()	executed on;		
()	now U.S. Application No.	filed	;

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 Corporation ("ASSIGNEE"), a Japanese corporation having executive offices at 7-1, Shiba 5-chome, Minato-ku, Tokyo, 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 and transfers unto said ASSIGNEE, its successors and assigns, their entire right, title and interest 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 application, 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; the Undersigned agree(s) that the attorney of record in said application 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; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to generally 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 Hutchins, Wheeler & Dittmar, of 101 Federal Street, Boston, MA 02110, to insert hereon any further identification information necessary or desirable for recordation of this document.

Date Signed

1. Idinoyuki Takahashi Name: Hipoyuki Takahashi	August 29, 2002 Actoshi- Clkai
2. Video Inaba Name: Hideo Inaba	August 29, 2002 Mitalia Clai
3. Maratish Sounda (19) Name: Masatoshi Sonoda	August 29, 2002 Vitashi Clai
4. Yoshiyuki Kato	August 29, 2002 Soltshi Uken
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(X) Additional inventors are being named on separately numbered sheets attached hereto.

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Inventors(s)

PATENT REEL: 013416 FRAME: 0420

Witnesses

宋色 (4 mg)

ASSIGNMENT (continued)

10/06-05+

<u>Inventors(s)</u>	Date Signed	Witnesses	
5. <u>Itsushi Nakagawa</u> Name: Atsushi Nakagawa	August 29, 2002/	Actual Clko	i Lo
6Name:			
7Name:			
8 Name:			
9 Name:			

PATENT REEL: 013416 FRAME: 0421

RECORDED: 09/06/2002