Form PTO-1595 (Rev. 10/02)

Attorney Docket No. 501.42869X00

OMB No. 0651-0027 (exp. 6/30/2005)	102521923	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office		
To the Honorable Commissioner of Patents a	nd Trademarks: Please record the attac	hed original documents or copy thereof.		
1. Name of conveying party(ies):  CHAKIHARA, HIRAKU OKUYAMA, KOUSUKE MONIWA, MASAHIRO	2. Name and address Name: 1) HITA	ess of receiving party(ies)		
MIZUNO, MAKOTO OKAMOTO, KEIJI NOGUCHI, MITSUHIRO YOSHIDA, TADANORI TAKAHASHI, YASUHIKO NISHIDA, AKIO	Address: 1) <u>6,  </u> Ct 2) <b>22</b>	ACHI, LTD.  ACHI ULSI SYSTEMS CO., LTD.  Kanda Surugadai 4-chome, niyoda-ku, Tokyo, Japan  2-1, Josuihoncho 5-chome, ndaira-shi, Tokyo, Japan		
Additional name(s) of conveying party(ies) attached 3. Nature of conveyance:	!			
☐ Assignment ☐ Merger☐ Security Agreement ☐ Chang☐ Other	r e of Name			
Execution Date: May 12, 21, 12, 16, 27, June 6, May 1		r(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, to A. Patent Application No.(s)  10629	7.3.3 B. Patent Registra	·		
	onal number(s) attached  Yes  No			
<ol><li>Name and address of party to whom correspondence concerning document should be mailed:</li></ol>	6. Total number of app	olications and patents involved 1		
Name: Antonelli, Terry, Stout & Kraus, L	7. Total fee (37 CFI	R 3.41)\$ <b>40.00</b>		
Internal Address:		be charged to deposit account		
1300 North Seventeenth Street Suite 1800 Arlington, VA 22209 USA	8. Deposit account	number:		
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<ol> <li>Statement and signature.</li> <li>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.</li> </ol>				
Gregory E. Montone, Reg# 28,141	HAMortine	07/30/2003		
Name of Person Signing Signature Date				
	Total number of pages including cover sheet, attachments, and document: 2			

documents to be recorded with required cover sheet information to: Commissioner of Patent & Trademarks, Box Assignments Washington, D.C. 20231

**PATENT REEL: 014359 FRAME: 0791** 

## **ASSIGNMENT**

(譲渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi, Ltd.,

and Hitachi ULSI Systems Co., Ltd.,

corporations organized under the laws of Japan,

located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan,

and 22-1, Josuihoncho 5-chome, Kodaira-shi, Tokyo, Japan,

receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi, Ltd.,

and Hitachi ULSI Systems Co., Ltd.,

their successors and assigns, all my right, title and interest, in and for the United States of America, in and to A SEMICONDUCTOR MEMORY DEVICE AND A METHOD OF MANUFACTURING THE SAME, A METHOD OF MANUFACTURING A VERTICAL MISFET AND A VERTICAL MISFET, AND A METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE AND A SEMICONDUCTOR DEVICE

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Pater which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi, Ltd., and Hitachi ULSI Systems Co., Ltd.,

their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi, Ltd., and Hitachi ULSI Systems Co., Ltd.,

Signed on the date(s) indicated aside our signatures:

RECORDED: 07/30/2003

I <b>NVENTOR(S)</b> (発明者フルネームサイン)	Date Signed (署名日)
1) Nitaku Chakhara Hiraku CHAKIHARA	12/May/2003
2) Koasa ke Obayana Kousuke OKUYAMA	21/May/2003
3) Masahiro MONIWA	12/ May/2003
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5) Kejji Okameto Keiji OKAMOTO	16 / May /2003
6) Mitsuhiro Naguchi Mitsuhiro NOGUCHI	27/ May /2003
7) Tadanori Yoshida Tadanori YOSHIDA	6/ June / 2003
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PATENT REEL: 014359 FRAME: 0792