	Docket No.: XA-9602
FORM PTO-1595 (Modified) (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002) P08A/REV03 MAY 0 2 2002	05-08-2002 U.S. DEPARTMENT OF COMMERCI Patent and Trademark Office
Tab settings + + + V	ANA HAN ANNA RAD TANA MAN TANA DANA DANA DANA DANA DANA DANA DA
To the Honorable Commissioner of Patents a	102080910ed original documents or copy thereof.
1. Name of conveying party(ies):Takanori YAMAZOEShinichi MINAMIHiroshi YOSHIGITakeo KANAIYoshiaki KAMIGAKI5 '2 '00'Kozo KATAYAMA5 '2 '00'	
Additional names(s) of conveying party(ies)	<b>N</b> O
3. Nature of conveyance:	
🖾 Assignment 🔲 Merger	
Security Agreement     Change of Name	ame City: Chiyoda-ku State/Prov.: Tokyo
□ Other	Country: JAPAN ZIP:
Jan. 28, Feb. 15, Feb. 12, Execution Date: Feb. 4, Jan. 31, Jan. 30, 2	
If this document is being filed together with a new ap Patent Application No. Filing date 10/040,332 January 9, 2002	B. Patent No.(s)
Additional	numbers 🖸 Yes 🛛 No
S. Name and address of party to whom correspondenc concerning document should be mailed:	e 6. Total number of applications and patents involved:
Name: Mitchell W. Shapiro	7. Total fee (37 CFR 3.41):\$ 40.00
Registration No. 31,568	Enclosed - Any excess or insufficiency should be
Address: Miles & Stockbridge P.C.	credited or debited to deposit account
1751 Pinnacle Dr., Suite 500	Authorized to be charged to deposit account
	8. Deposit account number:
City: McLean State/Prov.: VA	50-1165
Country: U.S. ZIP: 22102-3833	(Attach duplicate copy of this page if paying by deposit account)
	DO NOT USE THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoin of the original document.	ng information is true and correct and any attached copy is a true copy
Mitchell W. Shapiro	hithof Wilhars May 1, 2002
	Signature Date
	recorded with required cover sheet information to: f Patents & Trademarks, Box Assignments PATENT

PATENT REEL: 012857 FRAME: 0204

Conveying Party(ites)  I Mark if additional names of conveying parties attached  Enter additional Conveying Party  Name (ine 2  Name (ine 2  Receiving Party(ites)  Receiving Party Receiving Party(ites)  Receiving Par	FORM PTO- Expires 06/30/99 OMB 0651-0027		U.S. Department of Commerce Patent and Trademark Office PATENT		
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Enter additional Receiving Party(ies)       If document to be recorded         Name (ine 1)       Hitachi_ULSI_Systems Co., Ltd.       If document to be recorded         Name (ine 2)       Gamestic representative       Gamestic representative         Address (ine 1)       22-1, Josuihoncho 5-chome       must be a separate         Address (ine 2)       Kodaira-shi       Assignment.)         Address (ine 3)       Tokyo       JAPAN       Zip Code         Name (ine 1)       City       State/Country       Zip Code         Name (ine 1)       City       State/Country       Zip Code         Name (ine 2)       Gamestic representative is a statehol (Designation must be a separate document from Assignment.)       Address (ine 3)         Address (ine 1)       Tokyo       JAPAN       Zip Code         Name (ine 1)       Gity       State/Country       Zip Code         Name (ine 2)       Gamestic network of a domestic representative is a statehol (Designation must be a separate document of a domestic network of a domestic ne	Name (line 2)		]		
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Address (line 2)       Assignment.)         Address (line 3)	Address (line 1)		domestic representative is attached. (Designation must		
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Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).	Address (line 3)	City State/Country 7in C	ode		
Patent Application Number(s)       Patent Number(s)	Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).				
	Pa	tent Application Number(s) Patent Numb	per(s)		
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PATENT REEL: 012857 FRAME: 0205

## ASSIGNMENT

(譲渡証)

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to the below named inventor(s), citizens 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, respectively, receipt of which is hereby acknowledged, we, the below named inventor(s), do hereby sell and assign to said HITACHI, LTD., and Hitachi ULSI Systems Co., Ltd., their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

## NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent 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 us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said 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 we 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:

INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
1) Takanovi Yamaza	1/28/2002
2) /divoshi lyoshigi	2/15/2002
3) yoshiaki Kamigaki	2/12/2002
4) Kozo Katayama	2/4/2002 <del>3/19/2002</del> K.H. 2/4/2002
5) Shiniche Minami	1/31/2002
6) Takeo Kanai	1/30/2002
7)	
8)	
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