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FORM PTO-1594 1-31-92 RE

03-21-2000



U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 03180.0243

		le Commission he attached ori		s and 110131 ents or copy thereof.	7462	7462 ATTN. BOX ASSIGNMENTS			
1.	Name of conveying party:					2. Name and address of receiving party(ies):			
	Kuniyoshi YOSHIKAWA							2111 2111	
					Name:	KABUSH	IIKI KAISHA TOSHIBA	9/5	
Additional name(s) of conveying party(ies) attached? □ Yes ⊠ No						ddress:		JC.	
3.	Nature of conveyance:					Street Address: 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan			
					City: —	1			
፟፟፟		Assignment		Merger	State:		Zip Code:		
		Security Agreement		Change of Name					
		Other			Additional	name(s) &	Address(es) attached?		
		March 2 20	00		☐ Yes ⊠ N		Address(es) attached:		
Execution bate. March 2, 200									
4.	Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: March 2, 2000								
Α.	Patent Application Number(s):					B. Patent Number(s):			
Additional numbers attached? □ Yes ৷ No									
5.	Name and address of party to whom correspondence concerning document should be mailed:					6. Total number of applications and registrations involved:			
						7. Total fee (37 CFR 3.41): \$40			
Name:	e. Wil. Efficient . Onapinan					Enclosed (Please charge deficiency to deposit account)			
Integration between the property of the proper						(i lease cit	arge denoishey to deposit doso	unity	
04 FC:581 (40.00 0P)					Authorized to be charged to deposit account				
		-		· · · · · · · · · · · · · · · · · · ·		<u>,</u>			
Street Address: 1300 I Street, N.W.									
City:		Washington			8. Deposit account number: <u>06-0916</u>				
State:		DC	Zip:	20005-3315					
9. 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.									
	Richard V. Burgujian						March 7, 2000	_	
		Reg. No.	31, 744	Sign	ature		Date		
	Total number of pages including cover sheet, attachments and documents: 2								

PATENT REEL: 010627 FRAME: 0676

SOLE/JOINT INVENTION (U.S. Rights Only)

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to have made an invention entitled: NONVOLATILE SEMICONDUCTOR MEMORY FOR MANUFACTURING THE SAME, VOLATILE SEMICONDUCTOR MEMORY AND MANUFACTURING THE SAME, AND SEMICONDUCTOR MEMORY IN WHICH NON' for which I/WE executed an application for United States Letters Patent herewith or on or filed an application for United Patent on, 19 (Serial No	AND METHOD METHOD FOR VOLATILE (*) concurrently States Letters							
WHEREAS, KABUSHIKI KAISHA TOSHIBA	,							
a corporation of <u>Japan</u> , what address is 72 <u>Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ker</u> (hereinafter referred to as Assignee), is desirous of securing the entire interest in and to this invention, the application for United States Let invention and the Letters Patent to be issued upon this application;	re right, title, and							
NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;								
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.								
AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No, filed) the filing date and application number of said application when known.								
IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).								
1. Full Name of Sole or First Assignor: Assignor's Signature Kuniyoshi YOSHIKAWA: Kungolo Jode Kan	: Date : March 2,2000							
Address Tokyo, Japan	: Citizenship : Japan							
2. Full Name of Second Assignor : Assignor's Signature :	: Date							
Address	: Citizenship							
3. Full Name of Third Assignor : Assignor's Signature :	: Date							

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. . WASHINGTON, D.C.

(*) SEMICONDUCTOR MEMORY AND VOLATILE SEMICONDUCTOR MEMORY ARE MIXED AND METHOD FOR MANUFACTURING THE SAME

PATENT REEL: 010627 FRAME: 0677

: Citizenship

RECORDED: 03/07/2000

Address