PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Tomohito Chokan	12/08/2011
Naoaki Sudou	12/08/2011

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.		
Street Address:	416, MAETAN-DONG, YEONGTONG-GU,		
City:	SUWON-SI, GYEONGGI-DO,		
State/Country:	REPUBLIC OF KOREA		
Postal Code:	442-742		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13316608

CORRESPONDENCE DATA

Fax Number: (571)283-0740 Phone: 571-283-0720

Email: aloomis@volentine.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Correspondent Name: VOLENTINE & WHITT PLLC
Address Line 1: ONE FREEDOM SQUARE

Address Line 2: 11951 FREEDOM DRIVE Suite 1300

Address Line 4: RESTON, VIRGINIA 20190

ATTORNEY DOCKET NUMBER: SEC.3075

NAME OF SUBMITTER: ADAM C. VOLENTINE

Total Attachments: 2

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> PATENT REEL: 027365 FRAME: 0412

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ASSIGNMENT

		consideration of the sum of tideration paid to each of the u	One Dollar (\$1.00) and other good and valuable undersigned			
Insert Name(s) of		•	7			
Inventor(s)	2.	Naoaki Sudou	8			
	3.		9			
	4.		10			
	5.		11.			
	6.		12.			
Insert Name(s) of	6 12 the undersigned hereby sell(s) and assign(s) to					
Assignee(s) &	SAMSUNG ELECTRONICS CO., LTD.					
-		416, Maetan-dong				
Address(es)	of	Suwon-si, Gyeong	gi-do 442-742, Republic of Korea			
Title of Invention	(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as SEMICONDUCTOR MEMORY DEVICE AND METHOD OF OPERATING THE					
	SAME					
Date of Signing of Application	for which an application for patent in the United States of America has been executed by					
Аррисасии	the undersigned on December 8, 2011					
	The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient. The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.					
		undersigned agree(s) to perfor ant of a valid United States par	rm all affirmative acts which may be necessary to obtain tent to the Assignee.			

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The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date December 8,2	Oll Signature of Inventor	Tomohilo Chokan
Date December 8.201	Signature of Inventor	Macaki Sudo
Date	Signature of Inventor	
witnessed by at le	east two witnesses who sign here.	that the execution by the Inventor(s) be However, the current practice of the U.S. nment even it has not been witnessed.)
Witness-		
Witness-		
Applicant Reference No	WJ-211091-US	

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