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RECORDATION FORM COVE PATENTS ONLY	RECORDATION FORM COVER SHEET PATENTS ONLY Patent and Trademark Office Docket No.: 101031 Customer Number: 89,803	
To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.	Mail Stop Assignment Recordation Services	
1. Name of conveying party:	2. Name and address of receiving party:	
Heat Bit PARK	Hynix Semiconductor Inc.	
 Individuals ☐ Association ☐ General Partnership ☐ Corporation-State: ☐ Other: 	dditional names, addresses, or citizenship attached? ☐ Yes ⊠ No	
Citizenship: Republic of Korea	Internal Address:	
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No		
3. Nature of conveyance:	Street Address: San 136-1, Ami-ri, Bubal-eub	
Assignment	City: Ichon-si	
Security Change of Name	State: Gyeonggi-do Zip Code: 467-860	
Agreement	Country: Korea	
Other:	If assignee is not domiciled in the United States, a domestic representative designation is attached:	
Execution Date: December 20, 2009	☐ Yes ☐ No Designations must be a separate document from assignment)	
4. Application number(s) or patent number(s) and title or description		
A. Patent Application Number:	B. Patent Number(s):	
12/650,666		
Additional numbers attached? C. Title or Description of Patent (s) (and Filing Date if Application or Regis SEMICONDUCTOR MEMORY APPARATUS	☐ Yes ☑ No tration Number is unknown):	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and registrations involved:	
Name: K. Kevin Mun, Esq.	7. Total fee (37 CFR 1.21(h) and 3.41):	
Internal Address: Echelon Law Group, PC	Enclosed (Please charge deficiency to deposit account 50-5012)	
Street Address: 1919 Gallows Rd., Suite 330	Authorized to be charged to deposit account	
City: Vienna		
State: VA Zip: 22182	8. Payment Information:	
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Email kevin.mun@echelaw.com Address:	Authorized User Name: K. Kevin Mun	
Statement: To the best of my knowledge and belief, the foregoing information the original document.	mation is true and correct and any attached copy is a true copy of	
V Varia Man Fac	n Minn/	
K. Kevin Mun, Esq. <u>/K. Kevin</u> (Reg. No. 50,585) Signa		
Total number of pages including cover sheet, a		

<u>ASSIGNMENT</u>

WHEREAS, I, the below named inventor (hereinafter referred to as "Assignor"), have made an invention entitled:

SEMICONDUCTOR MEMORY APPARATUS

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ior which i e	executed an application for omited 5	lates Letters Faterit	
	concurrently herewith, or		
	filed as Application No.	on	, and
organized al address is S Korea, is de in all countri	REAS, Hynix Semiconductor Inc. (he not operating under the laws of Reposan 136-1, Ami-ri, Bubal-eub, Ichonesirous of securing the entire right, tiles throughout the world, and in and ent on this invention and the letters F	ublic of Korea, whose pos -si, Gyeonggi-do 467-860, tle, and interest in and to I to the application for Unit	t office , Republic of this invention ted States

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, Assignor has sold, assigned, transferred, and set over, and does hereby sell, assign, transfer, and set over unto Assignee, its lawful successors and assigns, the entire right, title, and interest in and to this invention, this application, all divisions and continuations thereof, all Letters Patent of the United States which may be granted thereon, all reissues thereof, all rights to claim priority on the basis of this application, all applications for Letters Patent which may hereafter be filed for this invention in any foreign country, all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, ASSIGNOR HEREBY covenants that Assignor has the full right to convey the interest assigned by this Assignment, and Assignor has not executed and will not execute any agreement in conflict with this Assignment;

AND, ASSIGNOR HEREBY further covenants and agrees, without further consideration, that Assignor will communicate with Assignee, its successors and assigns, any facts known to Assignor respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or 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 and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

Signature of Inventor:	park, New Bif
Inventor(s) Name:	PARK, Heat Bit
Residence:	San 136-1, Ami-ri, Bubal-eub, Ichon-si, Gyeonggi-do 467-860, Republic of Korea
Citizenship:	<u>Korean</u>
Date:	2009.12.20

RECORDED: 12/31/2009