

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Cheol Hwi Ryu</td><td>05/28/2008</td></tr><tr><td>Hyung Soon Park</td><td>05/28/2008</td></tr><tr><td>Jong Han Shin</td><td>06/13/2008</td></tr><tr><td>Jum Yong Park</td><td>05/28/2008</td></tr><tr><td>Sung Jun Kim</td><td>06/15/2008</td></tr></tbody></table>	Name	Execution Date	Cheol Hwi Ryu	05/28/2008	Hyung Soon Park	05/28/2008	Jong Han Shin	06/13/2008	Jum Yong Park	05/28/2008	Sung Jun Kim	06/15/2008	
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Cheol Hwi Ryu	05/28/2008												
Hyung Soon Park	05/28/2008												
Jong Han Shin	06/13/2008												
Jum Yong Park	05/28/2008												
Sung Jun Kim	06/15/2008												
RECEIVING PARTY DATA													
Name:	Hynix Semiconductor, Inc.												
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Postal Code:	467-860												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12146179</td></tr></tbody></table>	Property Type	Number	Application Number:	12146179									
Property Type	Number												
Application Number:	12146179												
CORRESPONDENCE DATA													
Fax Number:	(214)978-3099												
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NAME OF SUBMITTER:	Noel C. Gillespie												

CH \$40.00 12146179

PATENT

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REEL: 021336 FRAME: 0892

**Total Attachments: 4**

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**PATENT**

**REEL: 021336 FRAME: 0893**

## ASSIGNMENT

WHEREAS, I the undersigned inventor of residence as listed, have invented certain new and useful improvements as below entitled, for which an application for United States Letters Patent is made, said application having been designated as set forth below and filed on or about the date set forth below; and

WHEREAS, Hynix Semiconductor Inc. (hereinafter referred to as "Assignee"),

with an address of: San 136-1, Ami-ri, Bubal-eub, Ichon-si,  
Gyeonggi-do 467-860, Republic of Korea

desires to acquire the entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent(s) that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest in and to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

**Invention Name:**     **A PHASE-CHANGE RANDOM ACCESS MEMORY  
DEVICE AND METHOD OF MANUFACTURING THE  
SAME**

**Serial No.:**             12/146,179

**Date Filed:**            June 25, 2008

I hereby grant JOHN G. FLAIM, Registration No. 37,323, BRIAN C. McCORMACK, Registration No. 36,601, WILLIAM D. McSPADDEN, Registration No. 44,234, JAMES H. ORTEGA, Registration No. 50,554, RICHARD V. WELLS, Registration No. 53,757, HOWARD WISNIA, Registration No. 37,502, NOEL C. GILLESPIE, Registration No. 47,596, ROGER C. KUAN, Registration No. 56,558, KEVIN O'BRIEN, Registration No. 30,578, JAMES P. CONLEY, Registration No. 52,459, and all practitioners with the firm of Baker & McKenzie LLP (Customer Number 23562) with an office at 2001 Ross Avenue, Suite 2300, Dallas, TX 75201, 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 and Trademark Office for recordation of this document.

The undersigned further declares that all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful and false statements may jeopardize the validity of the application or any patent issued thereon.

**Signature of Inventor:**     Cheolhwsi. Ryu

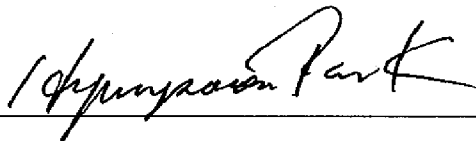
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**Date:**                        2008. 05. 28

Signature of Inventor:



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Date:

2008. 5. 28

Signature of Inventor:



Inventor(s) Name:

Jong Han, SHIN

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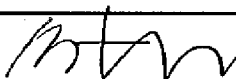
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Citizenship:

Korean

Date:

2008. 6. 15

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DALDMS/627804.1