

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KEW CHAN SHIM	04/09/2009
JUN HYUNG PARK	04/09/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HYNIX SEMICONDUCTOR INC.
<b>Street Address:</b>	San 136-1, Ami-ri, Bubal-eub, Icheon-si
<b>City:</b>	Kyoungki-do
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12427018
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)427-6663
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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<b>ATTORNEY DOCKET NUMBER:</b>	CU-7311 WWP/NK
<b>NAME OF SUBMITTER:</b>	Woochoon W. Park
<b>Total Attachments: 2</b> source=cu7311assign#page1.tif source=cu7311assign#page2.tif	

CH \$40.00 12427018

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**UNITED STATES OF AMERICA**  
**ASSIGNMENT**

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In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for the other good and valuable consideration,

**ASSIGNOR:**

SHIM, Kew Chan  
San 136-1, Ami-ri, Bubal-eub, Ichon-si, Gyeonggi-do 467-860, Republic of Korea

PARK, Jun Hyung  
San 136-1, Ami-ri, Bubal-eub, Ichon-si, Gyeonggi-do 467-860, Republic of Korea

hereby sells, assigns and transfers to

**ASSIGNEE:**

Hynix Semiconductor Inc.  
San 136-1, Ami-ri, Bubal-eub, Ichon-si, Gyeonggi-do 467-860, Republic of Korea

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the Application entitled

**PHASE CHANGE MEMORY DEVICE HAVING AN INVERSELY TAPERED  
BOTTOM ELECTRODE AND METHOD FOR MANUFACTURING THE SAME**

which application was

- (a) executed on event date herewith
- (b) filed as Serial No. \_\_\_\_\_ on \_\_\_\_\_

and, in and to all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, substitute, reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/we have set our hand and seal

2009.04.09

Date

Kew chan Shim

SHIM, Kew Chan

2009.04.09

Date

Park, Jun Hyung

PARK, Jun Hyung

0699P/1 (U.S. rights)