

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Byoung Sung YOO</td> <td>08/29/2012</td> </tr> <tr> <td>Jin Su PARK</td> <td>08/29/2012</td> </tr> </tbody> </table>		Name	Execution Date	Byoung Sung YOO	08/29/2012	Jin Su PARK	08/29/2012
Name	Execution Date						
Byoung Sung YOO	08/29/2012						
Jin Su PARK	08/29/2012						
RECEIVING PARTY DATA							
Name:	SK hynix Inc.						
Street Address:	2091, Gyeongchung-daero, Bubal-eub						
City:	Icheon-si Gyeonggi-do						
State/Country:	KOREA, REPUBLIC OF						
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>13616078</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13616078		
Property Type	Number						
Application Number:	13616078						
CORRESPONDENCE DATA							
Fax Number:	6309087653						
Phone:	630 908 7652						
Email:	uspto.actions@wwplaw.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	William Park & Associates LTD.						
Address Line 1:	930 N. York Road, Suite 201						
Address Line 4:	Hinsdale, ILLINOIS 60521						
ATTORNEY DOCKET NUMBER:	PA0850-0						
NAME OF SUBMITTER:	Woochoon William Park						
Total Attachments: 2 source=PA0850-0_Assignment#page1.tif source=PA0850-0_Assignment#page2.tif							

OP \$40.00 13616078

DOCKET:

PATENT

ASSIGNMENT OF APPLICATION

Now, therefore, in consideration of the sum of one dollar (\$1), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the assignor(s)

ASSIGNOR(S)

Byoung Sung YOO

108-2201, Gwanak Byucksan Blooming Apt., Euncheon-dong, Gwanak-gu, Seoul, Republic of Korea

Jin Su PARK

202-502, Daewoo 2 Cha Apt., Jeungpo-dong, Icheon-si, Gyeonggi-do, Republic of Korea

by these presents do sell, assign and transfer unto said assignee

ASSINGEE

SK HYNIX INC.

2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Republic of Korea

and the heirs, successors, assigns and legal representatives of the assignee the full and exclusive right to the said invention in the United States which are disclosed in the U.S. patent application titled

**SEMICONDUCTOR MEMORY DEVICE AND OPERATING METHOD
THEREOF**

for which an application for a United States Patent was filed on _____ Application Number _____; or

for which an application for a United States Patent was executed by the undersigned on _____

and any and all improvements thereof, the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and for the use of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

The assignor(s) agree promptly upon request of the Assignee, its heirs, successors, assigns and legal representatives of the assignee to communicate any facts known to it respecting the patent and the invention set forth therein, and to execute and deliver without further compensation any power of attorney, Assignment, application, whether original, continuation, divisional or reissue, or other papers that may be necessary or fully

Assignor(s) 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;

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Assignor(s) 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(s) 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.

ASSIGNOR SIGNATURE(S)

Byoung Sung Yoo
[Inventor #1] Byoung Sung YOO

Aug. 29, 2012
Date

Jin Su Park
[Inventor #2] Jin Su PARK

Aug. 29, 2012
Date