

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>Tae Kyung KIM</td> <td>03/05/2013</td> </tr> <tr> <td>Hyun Yul KWON</td> <td>03/05/2013</td> </tr> </tbody> </table>		Name	Execution Date	Tae Kyung KIM	03/05/2013	Hyun Yul KWON	03/05/2013		
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PROPERTY NUMBERS Total: 1									
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CORRESPONDENCE DATA									
Fax Number: 5713275452 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 571-327-5450 Email: ipntlaw@ipntlaw.com Correspondent Name: IP & T GROUP LLP Address Line 1: 8230 Leesburg Pike Address Line 2: Suite 650 Address Line 4: Vienna, VIRGINIA 22182									
ATTORNEY DOCKET NUMBER:	PO120444HD								
NAME OF SUBMITTER:	Myung Soo KIM								
	This document serves as an Oath/Declaration (37 CFR 1.63).								
Total Attachments: 2 source=Po120444HD_Declaration & Assignment#page1.tif source=Po120444HD_Declaration & Assignment#page2.tif									

OP \$40.00 13800794

PATENT

**ASSIGNMENT OF AND DECLARATION FOR APPLICATION
FOR UNITED STATES LETTERS PATENT**

WHEREAS, **Tae Kyung Kim and Hyun Yul Kwon**

hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to

SEMICONDUCTOR MEMORY DEVICE AND METHOD OF MANUFACTURING THE SAME,

[O] said application being attached hereto;

[] said application having been filed in the United States Patent and Trademark Office on _____, as Application Serial No. _____, and was amended on _____ (if applicable);

[] the specification of which was filed under the Patent Cooperation Treaty on _____, Serial No. _____, the United States of America being designated.

AND WHEREAS, **SK hynix Inc.** of 2091, Gyeongchung-daero, Buhal-eub, Icheon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: Tae Kyung Kim Date: March 3, 2012

Printed or Typed Name: **Tae Kyung Kim**

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

ASSIGNOR (INVENTOR):

Signature: Hyun Yul Kwon Date: March 5, 2013

Printed or Typed Name: Hyun Yul Kwon