

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
Name			Execution Date
HYUN CHUL LEE			01/05/2014
RECEIVING PARTY DATA			
Name:	SK HYNIX INC.		
Street Address:	2091, GYEONGCHUNG-DAERO, BUBAL-EUB, ICHEON-SI		
City:	GYEONGGI-DO		
State/Country:	KOREA, REPUBLIC OF		
PROPERTY NUMBERS Total: 1			
Property Type	Number		
Application Number:	14168777		
CORRESPONDENCE DATA			
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ATTORNEY DOCKET NUMBER:	OPX13176-116US		
NAME OF SUBMITTER:	JUN JEONG PARK		
Signature:	/Jun Jeong PARK/		
Date:	01/30/2014		
This document serves as an Oath/Declaration (37 CFR 1.63).			
Total Attachments: 1 source=OPX13176-116US_MSN_Assignment Declaration#page1.tif			

ASSIGNMENT OF AND DECLARATION FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS LEE, Hyun Chul, hereinafter
referred to collectively as the assignor and inventor, has invented a certain improvement relating to
SEMICONDUCTOR MEMORY DEVICE AND DATA STORAGE DEVICE INCLUDING THE SAME,

[X] 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.
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: LEE Hyun Chul Date: 2014. 1. 5

Printed or Typed Name: LEE, Hyun Chul