

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	RESUBMISSION						
NATURE OF CONVEYANCE:	ASSIGNMENT						
RESUBMIT DOCUMENT ID:	503701207						
CONVEYING PARTY DATA							
	<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>SUNG YEOB CHO</td> <td>01/06/2016</td> </tr> <tr> <td>DONG YEOB CHUN</td> <td>01/06/2016</td> </tr> </tbody> </table>	Name	Execution Date	SUNG YEOB CHO	01/06/2016	DONG YEOB CHUN	01/06/2016
Name	Execution Date						
SUNG YEOB CHO	01/06/2016						
DONG YEOB CHUN	01/06/2016						
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							
	<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>15048514</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	15048514		
Property Type	Number						
Application Number:	15048514						
CORRESPONDENCE DATA							
Fax Number:	(571)327-5452						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>							
Phone:	571-327-5450						
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ATTORNEY DOCKET NUMBER:	PO150600HD						
NAME OF SUBMITTER:	MYUNG SOO KIM						
SIGNATURE:	/Myung Soo KIM/						
DATE SIGNED:	03/25/2016						
This document serves as an Oath/Declaration (37 CFR 1.63).							
Total Attachments: 2							
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source=Po150600HD_Assignment Declaration_resend#page2.tif							

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

WHEREAS, Sung Yeob CHO and Dong Yeob CHUN

hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to
MEMORY SYSTEM HAVING IDLE-MEMORY DEVICES AND METHOD OF OPERATING THEREOF

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, Bubal-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: Sungyeob Cho

Date: 1.6.2016

Printed or Typed Name: Sung Yeob CHO

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

ASSIGNOR (INVENTOR):

Signature: Dongyeob Chun

Date: 1.6.2015

Printed or Typed Name: Dong Yeob CHUN