PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KANG SIK CHOI	01/26/2016

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

Property Type	Number
Application Number:	15019217

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	OPX13007-005US_DA2
NAME OF SUBMITTER:	MYUNG SOO KIM
SIGNATURE:	/Myung Soo KIM/
DATE SIGNED: 02/11/2016	
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 1

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PATENT 503688852 REEL: 037717 FRAME: 0429

Attorney	Docket No.:	

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS CHOI, Kang Sik , hereinafter referred to collectively as the assignor and inventor, has			
invented a certain improvement relating to			
<u>VERTICAL TYPE SEMICONDUCTOR DEVICE, FABRICATION METHOD THEREOF AND OPERATION METHOD</u> THEREOF	5		
[X] said application being attached hereto; [] said application having been filed in the United States Patent and Trademark Office on	eđ		
[] 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 valual consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor here assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title a interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention a any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any a all divisions and continuations thereof, and the said invention and any and all patents which may be granted theref including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when grantincluding any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held a enjoyed the same, if this assignment had not been made.	by nd nd id nd or, in ed, nid		
AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissuand prolongations thereof.	or les		
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent said application, and on any and all divisions and continuations thereof, to said assignce, and said assignce's successors a assigns, in accordance herewith.	on nd		
As an above-named inventor, I hereby declare that the above-identified application was made or authorized to made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.	bc		
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 10 by fine or imprisonment of not more than five (5) years, or both.	01		
ASSIGNOR (INVENTOR):			
Signature: CHOI KANGSIK Date: 2016-1.26	• 44.		
Printed or Typed Name: CHOI, Kang Sik	<u></u>		
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SK hynix

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