504705664 12/27/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOONG-HO KIM	12/27/2017
HYUN WOO KWACK	12/21/2017
KI JONG LEE	12/21/2017
DOO BOCK LEE	12/21/2017

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

Property Type	Number
Application Number:	15855777

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	PA3370-0	
NAME OF SUBMITTER: WOOCHOON WILLIAM PARK		
SIGNATURE:	/Woochoon William Park/	
DATE SIGNED: 12/27/2017		
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 2

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PATENT 504705664 REEL: 044493 FRAME: 0674

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention	SEMICONDUCTOR APPARATUS AND SYSTEM	
Declaration	As the below named inventor(s), I hereby declare that: The declaration is directed to: The attached application, or United States application or PCT international application number PCT/KR########### filed on The above-identified application was made or authorized to be made by me. I believe that I am the original 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	
Assignment	NOW, THEREFORE, in consideration of the sum of one dollar (\$1), the receipt whereof is acknowledge, and other good and valuable consideration, I, by these presents do sell, assign and transfer unto said assignee(s) 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(s) the full and exclusive right to the said invention in the United States and in its territorial possessions and in any and all foreign countries any and all improvements thereof, the entire rights, title and interest in and do any and all Patents which may be granted therefore in the United States. I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee(s), 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. I agree promptly upon request of the assignee(s), its heirs, successors, assigns and legal representatives of the assignee(s) 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 altorney, Assignment, application, whether original, continuation, divisional or reissue, or other papers that may be necessary. I hereby covenant that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale. I further covenant that assignee(s) 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 me and will testify as to the same in any litigation related thereto and will promptly execute and deliver to as	
Legal Name Of Inventor	Inventor Name (First Middle LAST): Joong-Ho KIM Inventor Signature: Joong-Ho Kim Date: December 21, 2017	

🖾 A total of 2 supplemental sheet(s) are attached hereto for additional inventors, if any.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Hyun Woo KWACK
	Inventor Signature:	Hyun Was Krack
	Date:	December 21, 2017
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Ki Jong LEE
	Inventor Signature:	ki Jong Lee
	Date:	December 21, 2017
Legal Name Of Joint Inventor, If Any	Inventor Name (First Middle LAST):	Doo Bock LEE
	Inventor Signature:	Doo Bock LEE
	Date:	December 21, 2017

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