## 503101191 12/15/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3147798

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JUNG RYUL AHN	11/21/2014
YUN KYOUNG LEE	11/21/2014

### **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:	14570535

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	PA1942-0
NAME OF SUBMITTER: WOOCHOON W. PARK	
SIGNATURE:	/Woochoon W. Park/
<b>DATE SIGNED:</b> 12/15/2014	
	This document serves as an Oath/Declaration (37 CFR 1.63).

### **Total Attachments: 2**

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PATENT 503101191 REEL: 034508 FRAME: 0970

# 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 MEMORY DEVICE INCLUDING THREE-DIMENSIONAL ARRAY STRUCTURE		
	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 filed on	
Declaration	The above-identified application wa	is 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.		
	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 to 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		
8	not been made.	have been held by me had this assignment and sale	
Assignment	I agree promptly upon request of	the assignee(s), its heirs, successors, assigns and	
		(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 attorney, 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 assignee(s) or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain,		
	maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.		
	Inventor Name (First Middle LAST):	Jung Ryui AHN	
Legal Name Of Inventor	Inventor Signature:	JUNG RYUL AHN 2014: 11. 21	
	Date:	2014, 11.2/	

A total of 1 supplemental sheet(s) are attached hereto for additional inventors, if any

안정열/Flash소자기술팀/주간통상/6930 2028467/10 75 42 246/2014-11-21 10:01 REEL: 034508 FRAME: 0971

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

Legal Name	Inventor Name (First Middle LAST):	Yun Kyoung LEE
Of Joint Inventor, If	Inventor Signature:	Yun Kyoung LEE
Any	Date:	2014, 11.71

