### 504110693 11/25/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4157363

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DAE SUK KIM	11/14/2016
JAE IL KIM	11/14/2016

#### **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:	15361172

#### **CORRESPONDENCE DATA**

**Fax Number:** (630)323-0335

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.

Email: uspto.actions@wpapat.com
Correspondent Name: WILLIAM PARK & ASSOCIATE
Address Line 1: 930 N. YORK ROAD, SUITE 201
Address Line 4: HINSDALE, ILLINOIS 60521

ATTORNEY DOCKET NUMBER:	PA3005-0
NAME OF SUBMITTER:	WOOCHOON W. PARK
SIGNATURE:	/Woochoon W. Park/
DATE SIGNED:	11/25/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 2**

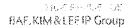
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PATENT 504110693 REEL: 040416 FRAME: 0473

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

Title of Invention	SAME	SEMICONDUCTOR DEVICE INCLUDING THE
Declaration	As the below named inventor(s), I he The declaration is directed to:  The attached application, o United States application o filed The above-identified application was I believe that I am the original or ar application. I hereby acknowledge that any was	
Assignment	is acknowledge, and other good and assign and transfer unto said assigned assign and transfer unto said assigned assign and the heirs, successors, assigns a and exclusive right to the said inversessions and in any and all foreign entire rights, title and interest in any therefore in the United States. I her Patent and Trademark Office to assue entire right, title, and interest in and legal representatives, to the full end of fully and entirely as the same would into been made.  I agree promptly upon request of legal representatives of the assignee the patent and the invention set forth compensation any power of atto continuation, divisional or reissue, or a liberable covenant that no assignment be made or entered into which would. I further covenant that assignee(s) pertinent facts and documents relating equivalents as may be known and actification related thereto and will proprepresentatives any and all papers, in maintain, issue and enforce said apprendictions.	sk Hynix Inc.  al-eub, icheon-si, Gyeonggi-do 17336, Korea, and legal representatives of the assignee(s) the full rention in the United States and in its territorial gn, countries any and all improvements thereof, the add to any and all Patents which may be granted by authorize and request the Director of the U.S. said United States Patent to said assignee(s), of the to the same, for his sole use and for the use of his of the term for which said Patent may be granted, as have been held by me had this assignment and sale the assignee(s), its heirs, successors, assigns and (s) to communicate any facts known to it respecting a therein, and to execute and deliver without further mey, Assignment, application, whether original,
	Inventor Name (First Middle LAST):	Dae Suk KIM
Legal Name Of Inventor	Inventor Signature:	DAE SUKRIM Nov. 14, 2016
	Date:	Nov. 14, 2016

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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

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

Of Joint Inventor, If Any Date: Nov. 14, 2016  Legal Name Of Joint Inventor Name (First Middle LAST): Inventor, If Any Date: Inventor Signature: Inventor, If Any Date: Inventor Signature: Inventor, If Any Date: Inventor Signature: Inventor, If Any Date: Inventor Signature: Inventor Signature: Inventor, If Any Date: Inventor Signature: Inventor Signature: Inventor, If Any Date: Inventor Signature: Inventor Sign	!	Inventor Name (First Middle LAST):	jae II KIM
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