# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5604080

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HAN SOO JOO	06/26/2019
BONG YEOL PARK	06/26/2019
JI HYUN SEO	06/26/2019
HEE YOUL LEE	06/26/2019

## **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:	16502832	

### CORRESPONDENCE DATA

Fax Number: (571)327-5452

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.

Phone: 5713275450

Email: ipntlaw@ipntlaw.com **Correspondent Name:** IP & T GROUP LLP Address Line 1: 8230 LEESBURG PIKE

Address Line 2: SUITE 650

Address Line 4: VIENNA, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	PO181082HD
NAME OF SUBMITTER:	MYUNG SOO KIM
SIGNATURE:	/Myung Soo KIM/
DATE SIGNED:	07/03/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

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

source=Po181082HD Assignment Declaration#page1.tif source=Po181082HD\_Assignment Declaration#page2.tif

**PATENT REEL: 049678 FRAME: 0075** 505557283

[세종	. PTPUS2018011503
Attorney Docke	No.:

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

WHEREAS, Han Soo JOO, Bong Yeol PARK, Ji Hyun SEO and Hee Youl LEE hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to

## SEMICONDUCTOR DEVICE AND OPERATING METHOD THEREOF [O] said application being attached hereto; [ ] said application having been filed in the United States Patent and Trademark Office on as Application Serial No. on \_\_\_\_\_\_(if applicable); [ ] the specification of which was filed under the Parent Cooperation Treaty on and was amended Serial No. , the United States of America being designated. AND WHEREAS, SK hyuix Inc. of 2091, Gyeongchung-daero, Bubal-cub, 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 assignce 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 assigned's successors and assigns, in as ample and occupational a manner as the said assignor might or could have held and 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 assignce, and said assignce's successors and 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: \_ Hon Soo Joo Printed or Typed Name: Han Soo JOO Page 1 of 2

SK hynix

주환수/Petra Device

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ASSIGNOR	(INVENTO	)R):			
Signature:	Bong \	(eoi PARK	**************************************	Date:	6,28, 2017
Printed or Ty	ped Name:	Bong Yeol P.	ARK		
ASSIGNOR	(INVENTO	r):			
Signature:		Hyman	See	Date:	6.26 26/9
Printed or Ty	ped Name:	li Hyun SEO			
ASSIGNOR (	INVENTO:	B).:			§
Signature:	<u>Hee</u>	Youlj	AQ	Date:	24, 249_
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**RECORDED: 07/03/2019**