PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4915537

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KI HONG LEE	09/01/2016
SEUNG HO PYI	09/01/2016
SEOK MIN JEON	09/05/2016

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:	15953092

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 & ASSOCIATES LTD.

Address Line 1: 930 N. YORK ROAD, SUITE 201

Address Line 4: HINSDALE, ILLINOIS 60521

ATTORNEY DOCKET NUMBER:	PA0794-1C	
NAME OF SUBMITTER:	ME OF SUBMITTER: WOOCHOON WILLIAM PARK	
SIGNATURE:	/Woochoon William Park/	
DATE SIGNED:	04/13/2018	
This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 4

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PATENT 504868797 REEL: 045538 FRAME: 0290

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

[PTPUS201600517]

Title of Invention	SEMICONDUCTOR DEVICE	
Declaration	As the below named inventor(s), I he The declaration is directed to: IThe attached application, or United States application or	
	I believe that I am the criginal or ar application I hereby acknowledge that any w	made or authorized to be made by me, noriginal joint inventor of a claimed invention in the willful false statement made in this declaration is fine or imprisonment of not more than five (5) years
Assignment	NOW, THEREFORE, in consideration of the sum of one dollar (\$1), the receipt whereof is acknowledge, and other good and valuable consideration. It by these presents do sell, assign and transfer unto said assignee(s) [SK hynix Inc.] [2091, Gyeongchung-daero, Bubal-eub, tcheon-st, 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 \$0 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.	
	thereof Inventor Name (First Middle LAST):	Ki Hong LEE
Legal Name Of Inventor	Inventor Signature	KI HORG LEE
	Date:	KI 40067 LEE Sep 1, 2016

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PATENT REEL: 045538 FRAME: 0291

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

[PTPUS201600517]

Legal Name Of Inventor	Inventor Name (First Middle LAST):	Seung Ho PYI
	Inventor Signature	SEUNGIHO P/I
	Date:	Sep., 1, 2016
	Inventor Name (First Middle LAST):	Seok Min JEON
	Inventor Signature	
	Date	

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



PATENT REEL: 045538 FRAME: 0292

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

[PTPUS201600517]

Title of Invention	SEMICONDUCTOR DEVICE	
Declaration	The above-identified application was believe that I am the original or a application. I hereby acknowledge that any versions application.	
Assignment	is acknowledge, and other good and assign and transfer unto said assigne [2091, Gyeongchung-daero, Bubal and the heirs, successors, assigns and exclusive right to the said impossessions and in any and all foreigntire rights, title and interest in an therefore in the United States. I her Patent and Trademark Office to issue entire right, title, and interest in and legal representatives, to the full end of fully and entirely as the same would not 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 lifered procession and 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 actingation related thereto and will progrepresentatives any and all papers, it maintain, issue and enforce said apprent of the said app	[SK hynix Inc.] -eub, Icheon-si, Gyeonggi-do, Republic of Korea] and legal representatives of the assignee(s) the full vention in the United States and in its territorial gn countries any and all improvements thereof, the nd to any and all Patents which may be granted reby 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 in therein, and to execute and deliver without further rney, Assignment, application, whether original,
	Inventor Name (First Middle LAST):	Ki Hong LEE
Legal Name Of Inventor	Inventor Signature:	
	Date:	

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT		
		[PTPUS201600517]
	Inventor Signature:	
	Date:	
	Inventor Name (First Middle LAST):	Seung Ho PYI
****	Inventor Signature:	
Legal Name	Date:	
Of Inventor	Inventor Name (First Middle LAST):	Seok Min JEON
	Inventor Signature:	Seak Min JEON
	Date:	2016,9,5

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