## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4890789

**NATURE OF CONVEYANCE: ASSIGNMENT** 

#### **CONVEYING PARTY DATA**

Name	Execution Date
WOONG-RAE KIM	03/23/2018

## **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:	15940062	

## **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: 571-327-5450

Email: ipntlaw@ipntlaw.com **Correspondent Name:** IP & T GROUP LLP

Address Line 1: 8230 LEESBURG PIKE SUITE 650

Address Line 4: VIENNA, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	P17H0208/US
NAME OF SUBMITTER:	JUN JEONG PARK
SIGNATURE:	/Jun Jeong PARK/
DATE SIGNED:	03/29/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 1** 

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**PATENT** 

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

MEMORY SYSTEM AND OPERATING METHOD THEREOF  [X] said application being attached hereto; [I] said application having been filed in the United States Patent and Trademark Office on as Application Serial No	WHEREAS KIM, Woong-Rae , hereinafter
[X] said application being attached hereto;  [] said application being attached hereto;  [] said application being attached hereto;  [] said application serial No	referred to collectively as the assignor and inventor, has invented a certain improvement relating to
[X] said application being attached hereto;  [] said application being attached hereto;  [] said application being attached hereto;  [] said application serial No	MEMORY SYSTEM AND OPERATING METHOD THEREOF
[] I said application having been filed in the United States Patent and Trademark Office on and was amended (if applicable); [] I the specification of which was filed under the Patent Cooperation Treaty on serial No	
[] I said application having been filed in the United States Patent and Trademark Office on and was amended (if applicable); [] I the specification of which was filed under the Patent Cooperation Treaty on serial No	TVV-std familiositus Julius stanks st kamen
as Application Scriat No	
If the specification of which was filed under the Patent Cooperation Treaty on Serial No	as Application Serial No
AND WHEREAS Sk hen's lac.  AND WHEREAS Sk hen's lac.  Dereinster 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 assignee to said assignee, the receipt of which is hereby ecknowledged, said assignee hereby said assignee, and said assignee, and said assignee, and and assignee, and and are signee 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, and it was provided the said invention and any and all patents which may be granted therefor, 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 mywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, netuding any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said saignee, and said my and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said my and all acts relating to the shianing or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof, and the said assignee and advantages in a prolongation thereof, and assignee and advantages in a prolongation thereof, and assignee and advantages	on(if applicable);
AND WHEREAS SK henix Inc. 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 assignee to said assigner, the receipt of which is bereby acknowledged, said assigner hereby assigns, solls and transfers to said assignee, and said assigners as 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 not said invention and any and all patents which may be granted therefor, including any and all prenewals, reissues and prolongations thereof, and all patents which may be granted therefor, including any and all prenewals reissues and prolongations thereof, with all the rights, powers, privileges and advantages in nebuding any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in nebuding any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in nebuding any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee when granted, including any and all renewals, reissues and prolongations thereof, and the said assignee in a sample and benefitied a manner as the said assignee might or could have held and injoyed the same, if this assignment had not been made.  AND said assignor hereby agrees to perform, upon the request of said assignee might in read all renewals, reissues and prolongations thereof.  AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on all application, and on any and a	[ ] the specification of which was filed under the Patent Cooperation Treaty on
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ignature: Woongrise KIM Date: 20/8-03-23	ACCIONAD ADVICTORAD.
	ASSIGNOR (INVENTOR):
	Signature: Woonghae KIM Date: 2018-03-23
rinted or Typed Name: KIM, Woong-Rae	Printed or Typed Name: KIM, Woong-Rae

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