#### 502526766 10/09/2013

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2571995

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HEAT-BIT PARK	09/25/2013
KANG-SEOL LEE	09/25/2013

## **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:	14049878

# **CORRESPONDENCE DATA**

Fax Number: (571)327-5452 Phone: 571-327-5450 Email: ipntlaw@ipntlaw.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

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:	P13H0130/US
NAME OF SUBMITTER:	MYUNG SOO KIM
Signature:	/Myung Soo KIM/
Date:	10/09/2013

**PATENT** 

**REEL: 031374 FRAME: 0986** 

## 502526766

This document serves as an Oath/Declaration (37 CFR 1.63).

## Total Attachments: 2

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PATENT REEL: 031374 FRAME: 0987

SHINSUNG: IVX000131551

Attorney Docket No.:	-
ASSIGNMENT OF AND DECLARATION FOR A. PLICATION FOR UNITED STATES LETTERS PATENT	
WHEREAS LEE, Kang-Seol	hereinafter
referred to collectively as the assignor and inventor, has invented a certain improvement relating to	
MEMORY AND MEMORY SYSTEM	
on	was amended
hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in application, including any and all divisions and continuations thereof, and in and to said invention and any and which may be granted therefor, including any and all renewals, reissues and prolongations thereof;	and to said d all patents
NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other goo consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledged, said assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive interest in and to said application, including any and all divisions and continuations thereof, and in and to said any and all patents which may be granted therefor, including any and all renewals, reissues and prolongation assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all patents which may be granted divisions and continuations thereof, and the said invention and any and all patents which may be granted including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assi assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could enjoyed the same, if this assignment had not been made.	assignor hereby e right, title and d invention and ons thereof; said cluding any and ranted therefor, d advantages in s when granted,
AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee' assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renand prolongations thereof.	s successors or newals, reissues
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Lessaid application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's assigns, in accordance herewith.	etters Patent on successors and
As an above-named inventor, I hereby declare that the above-identified application was made or at made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the appli	uthorized to be ication.
I hereby acknowledge that any willful false statement made in this declaration is punishable under the fine or imprisonment of not more than five (5) years, or both.	18 U.S.C. 1001
ASSIGNOR (INVENTOR):	
Signature: LEE KANG SEOL Date: September 25,2013	M-H-Manth-Septem company
Printed or Typed Name: LEE, Kang-Seol	118 <del>1</del> 4444-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Page 1 of 1	

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SHINSUNG: IVX000131551

Attorney Docket No.:

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT		
WHEREAS PARK, Heat-Bit	, hereinafter	
referred to collectively as the assignor and inventor, has invented a certain improvement relating to MEMORY AND MEMORY SYSTEM	NAM MARIONE FOR FOR FOR MARION NAMED IN CONTROL OF THE PARTY OF THE PA	
[X] 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 Patent Cooperation Treaty on, Serial No, the United States of America being designated.		
AND WHEREAS SK hynix Inc. hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest is application, including any and all divisions and continuations thereof, and in and to said invention and any any which may be granted therefor, including any and all renewals, reissues and prolongations thereof;	n and to said and all patents	
NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other go consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledged, said assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive interest in and to said application, including any and all divisions and continuations thereof, and in and to say any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, it all divisions and continuations thereof, and the said invention and any and all patents which may be including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges a anywise arising from or appertaining thereto, for and during the term or terms of any and all such patent including any and all renewals, reissues and prolongations thereof, for the use and benefit of said as assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or coule enjoyed the same, if this assignment had not been made.	assignor hereby ve right, title and aid invention and ons thereof; said neluding any and granted therefor, nd advantages in ts when granted, signee, and said	
AND said assignor hereby agrees to perform, upon the request of said assignee, or said assigne assigns, any and all acts relating to the obtaining or to the asserting of said parents, including any and all rand prolongations thereof.		
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee assigns, in accordance herewith.	Letters Patent on 's successors and	
As an above-named inventor, I hereby declare that the above-identified application was made or 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 by fine or imprisonment of not more than five (5) years, or both.	- 18 U.S.C. 1001	
ASSIGNOR (INVENTOR):		
Signature: park Heat Bit Date: September 25,2013	ndarongidas sariasajinda dykagikasanongs	
Printed or Typed Name: PARK, Heat-Bit	PHILADES SPRINGER AND	
Page 1 of 1		

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이강설/Graphics설계팀/이천/1447

**RECORDED: 10/09/2013**