503742514 03/17/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3789158

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
WON SUN PARK	02/12/2016	

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:	15073345

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

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Address Line 4: VIENNA, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	PO150668HD
NAME OF SUBMITTER:	JUN JEONG PARK
SIGNATURE:	/Jun Jeong PARK/
DATE SIGNED:	03/17/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 1

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PATENT 503742514 REEL: 038146 FRAME: 0004

	[X]答,PTP	'US201501164]
Attorney	Docket No.:	

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS, Won Sun PARK

hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to

SEMICONDUCTOR MEMORY DEVICE AND METHOD OF OPERATING THE S.	AME		
(O) said application being attached hereio;			
[] said application having been filed in the United States Patent and Trademark Office on as Application Serial No	and	was	amended
on(if applicable);	uccar	14.00	2000120170000
[] the specification of which was filed under the Patent Cooperation Treaty on			
Serial No, the United States of America being designated.	····T		
AND WHEREAS, SK hynix Inc. of 2091, Gyeongchung-duero, Bubal-eub, Icheon-si, Gyeon Korea, hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, till said application, including any and all divisions and continuations thereof, and in and to said invention patents which may be granted therefor, including any and all renewals, reissues and prolongations the	e and a	interes	t in and to
NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and o consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledge assigns, sells and transfers to said assignee, and said assignee's successors and assigns; the full and einterest in and to said application, including any and all divisions and continuations thereof, and in an any and all patents which may be granted therefor, including any and all renewals, reissues and proassignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said applicall divisions and continuations thereof, and the said invention and any and all patents which mincluding any and all renewals, reissues and prolongations thereof, with all the rights, powers, privitanywise arising from or appertaining thereto, for and during the term or terms of any and all succeincluding any and all renewals, reissues and grolongations thereof, for the use and benefit of assignee's successors and assigns, in as ample and benefit of a manner as the said assignor might enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, upon the request of said assignee, or said assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and prolongations thereof. AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to	d, said exclusied to selongate ation, is ay be leges a pater said as or cou assigne ad all a	I assignate investigations the including grante and adouts what saigned ald have see's successioned. Letters	nor hereby it, title and ention and ereof; said ing any and d therefor, rantages in in granted, and said ic held and excessors or is, reissues
said application, and on any and all divisions and continuations thereof, to said assignee, and said assigns, in accordance herewith.	signe	e's succ	essors and
As an above-named inventor, I hereby declare that the above-identified application was m made by me, and that I am the original inventor or an original joint inventor of a claimed invention in			
I hereby acknowledge that any willful false statement made in this declaration is punishable by fine or imprisonment of not more than five (5) years, or both.	s unde	r 18 U	.S.C. 1001
ASSIGNOR (INVENTOR):			
Signature: 49764 Date: 2016, 02, 12			
Printed or Typed Name: Won Sun PARK			

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RECORDED: 03/17/2016

PATENT REEL: 038146 FRAME: 0005