503810548 05/03/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

ic Version v1.1 EPAS ID: PAT3857196

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
MIN-SU KIM	04/18/2016	
JIN-SU PARK	04/18/2016	

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:	15145539

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:	P15H0312/US
NAME OF SUBMITTER:	MYUNG SOO KIM
SIGNATURE:	/Myung Soo KIM/
DATE SIGNED:	05/03/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

source=IVX000137372_P15H0312US_ASSIGNMENT&DECLARATION#page1.tif source=IVX000137372_P15H0312US_ASSIGNMENT&DECLARATION#page2.tif

PATENT 503810548 REEL: 038599 FRAME: 0592

SHINSUNG:P		

Attorney Docket No.:	

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

WHEREAS PARK Jin-Su	, hereinafter
referred to collectively as the assignor and inventor, has invented a certain improvement relating to	
SEMICONDUCTOR DEVICE AND TEST SYSTEM INCLUDING THE SAME	

the state of the s	
[X] said application being attached hereto;	*
[] said application having been filed in the United States Patent and Trademark Office on, as Application Serial No, and, and, and, and, and, and, and, and, and, and	nd was amended
on (if applicable):	in was anreaded
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 bynix Inc.	
hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and inter	est in and to said
application, including any and all divisions and continuations thereof, and in and to said invention and at 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 othe consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exc interest in and to said application, including any and all divisions and continuations thereof, and in and any and all patents which may be granted therefor, including any and all renewals, reissues and prolon assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application all divisions and continuations thereof, and the said invention and any and all patents which may including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileg anywise arising from or appertaining thereto, for and during the term or terms of any and all such a including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or enjoyed the same, if this assignment had not been made.	said assignor hereby clusive right, title and to said invention and agations thereof; said on, including any and be granted therefor, ges and advantages in latents when granted, d assignee, and said
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 and prolongations thereof.	
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to is said application, and on any and all divisions and continuations thereof, to said assignee, and said assigns, in accordance herewith.	sue Letters Patent or gnee's successors and
As an above-named inventor, I hereby declare that the above-identified application was made made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the	
I hereby acknowledge that any willful false statement made in this declaration is punishable up time or imprisonment of not more than five (5) years, or both.	inder 18 U.S.C. 1001
ASSIGNOR (INVENTOR):	
Signature: Jak Ji su Date: April 18, 2016	
Printed or Typed Name: PARK, Jin-Su	
Page lof 1	

PATENT REEL: 038599 FRAME: 0593

SHINS	SUNG:	VX0001	37372(P1	5H0312/	IS

	Attorney I	Docket No.:	
ECLARATION FOR		ON	

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

referred to collectively as	fin-Su the essioner and invent	ar has bereater	la restora immen	ment valetine to		_ hercinafter
	ar ar		· · · · · · · · · · · · · · · · · · ·	mem temang to		
SEMICONDUCTOR DE	VICE AND DESISTS	TEM INCLUD	ING THE SAME			·····

[X] said application being	attached hereto;					***************************************
said application havin		ed States Paten	t and Trademark O	ffice on		
	, as Applicat	ion Seriai No.			and wa	s amende
on [] the specification of wh		(if applicabl	e);			
I the specification of wo Serial No.	on report Doll 25w non	Patent Coopers	tion i realy on		النبسا	
Jorean 140.	wo without state	5 OI THING ING DO	mg wongmen.			
AND WHEREAS	SK hynix Inc.					
AND WHEREAS hereinafter referred to as t application, including any which may be granted the	and all divisions and c	ontinuations the	reof, and in and to	said invention an		
NOW THIS WI consideration paid by sai assigns, sells and transfer interest in and to said appart and all patents which assignee, and said assigne all divisions and continuincluding any and all reasy and all reasy assignee's successors and enjoyed the same, if this a	s to said assignee, and lication, including any may be granted theref e's successors and assignations thereof, and the ewals, reissues and pro- appertaining thereto, for newals, reissues and passigns, in as ample a	ignor, the receisald assignee's and all division for, including an gas, to have, however, in the received invention to and during the prolongations the redongations are redongations.	pt of which is he successors and ass and continuation by and all renewall id, exercise and en and any and all toof, with all the right term or terms chereof, for the uspectors of the uspectors.	reby acknowledgigns, the full and is thereof, and in a reissues and prior the said applications which in this, powers, privile any and all suce and benefit of	ed, said assective read to said of the said assign assid assign	signor herebight, fittle an invention an thereof, saiding any anted therefor advantages in when granted and said and sai
AND said assign assigns, any and all acts r and prolongations thereof						
AND said assign said application, and on a assigns, in accordance her						
As an above-nan made by me, and that I an	ned inventor, I hereby n the original inventor (
I hereby acknow by fine or imprisonment o	dedge that any willful of not more than five (5)			ation is punishab	le under 18	U.S.C. 100
ASSIGNOR (INVENTO	R):					
Signature: <u>Kîm</u>	Min su		Date: April	18, 2016		inginananingi
4						
Printed or Typed Name:	KIM, Min-Su	C. September 1997 1997 1997	erangen er en er en er en er	Tawatinin o si		

PATENT REEL: 038599 FRAME: 0594

RECORDED: 05/03/2016