PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SEUNG YUN LEE	11/25/2015
HAE CHAN PARK	11/25/2015
MYOUNG SUB KIM	11/25/2015
SE HO LEE	11/25/2015

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:	14956823

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	OPX13166-110US_CIP	
NAME OF SUBMITTER:	MYUNG SOO KIM	
SIGNATURE:	/Myung Soo KIM/	
DATE SIGNED:	12/02/2015	
This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 2

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> PATENT REEL: 037190 FRAME: 0232

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tudine. Tudine sama sama sama sama sama sama sama sam	Attorney Docket No.:
ASSIGNMENT OF AND DI FOR UNITED ST	ECLARATION FOR APPLICATION ATES LETTERS PATENT
WHEREAS LEE, Soung Yun et al.	hereinafter referred to collectively as the assignor and
inventor, has invented a certain improvement relating to	
SEMICONDUCTOR SYSTEM INCLUDING SEMICON CONTROL METHOD THEREOF	DUCTOR MEMORY APPARATUS AND TEMPERATURE
[X] said application being attached hereto; [] said application having been filed in the United States	INO and use amanda
on(if ap [] the specification of which was filed under the Patent C	alicable);
Serial No, the United States of Ame	ooperation Treaty on
AND WHEREAS SK hypix Inc.	
application, including any and all divisions and continuation which may be granted therefor, including any and all rener	
consideration paid by said assignee to said assignor, the assigns, sells and transfers to said assignee, and said assignmenterest in and to said application, including any and all diany and all patents which may be granted therefor, includ assignee, and said assignee's successors and assigns, to have all divisions and continuations thereof, and the said in including any and all renewals, reissues and prolongation anywise arising from or appertaining thereto, for and durincluding any and all renewals, reissues and prolongation	insideration of One Dollar (\$1.00), and other good and valuable is receipt of which is hereby acknowledged, said assignor hereby ince's successors and assigns, the full and exclusive right, title and visions and continuations thereof, and in and to said invention and ling any and all renewals, reissues and prolongations thereof; said we, hold, exercise and enjoy the said application, including any and vention and any and all patents which may be granted therefor, is thereof, with all the rights, powers, privileges and advantages in ring the term or terms of any and all such patents when granted, ons thereof, for the use and benefit of said assignee, and said icial a manner as the said assigner might or could have held and
AND said assignor hereby agrees to perform, up assigns, any and all acts relating to the obtaining or to the and prolongations thereof.	oon the request of said assignee, or said assignee's successors or asserting of said patents, including any and all renewals, reissues
AND said assignor authorizes and requests the C said application, and on any and all divisions and continue assigns, in accordance herewith.	ommissioner of Patents and Trademarks to issue Letters Patent on ations thereof, to said assignee, and said assignee's successors and
As an above-named inventor, I hereby declare the made by me, and that I am the original inventor or an original inventor or an original inventor or an original inventor.	at the above-identified application was made or authorized to be nat joint inventor of a claimed invention in the application.
I hereby acknowledge that any willful false states by fine or imprisonment of not more than five (5) years, or	nent made in this declaration is punishable under 18 U.S.C. 1001 both.
ASSIGNOR (INVENTOR):	
Signature LEE SEUNG YUN	Date: 2015.11.25

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SNK: OPX13166-110US_CIP

Printed or Typed Name: LEE, Seung Yun

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

Signature:	PARK, HAE CHAN	Date:	2015.11.25	
Printed or Ty	ped Name: <u>PARK, Hae Chan</u>			
Signature:	KIM, Hyang Sub	Date:	2015,11.25	
Printed or Tv	ped Name: <u>KIM, Myoung Sub</u>			
Signature	LEE, SeHo	Date:	2015.11,2h	
Printed or Tv	ped Name: <u>LEE, Se Ho</u>			
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