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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4764162

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DEOG-KYOON JEONG	12/27/2017
HAN-GON KO	12/27/2017

RECEIVING PARTY DATA

Name:	SK HYNIX INC.
Street Address:	2091, GYEONGCHUNG-DAERO, BUBAL-EUB, ICHEON-SI
City:	GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Name:	OF OUR MATIONAL LINEVEROLITY DODD FOUNDATION
mame:	SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION
Street Address:	1, GWANAK-RO, GWANAK-GU

PROPERTY NUMBERS Total: 1

Property Type	Number				
Application Number:	15864092				

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:	P17H0111/US
NAME OF SUBMITTER:	JUN JEONG PARK
SIGNATURE:	/Jun Jeong PARK/
DATE SIGNED:	01/08/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments O	

Total Attachments: 2

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Attorney Docket No.:

FOR UNITED STATES LETTERS PATENT	AISON
WHEREAS JEONG, Deog-Kyoon	, hereinafter
referred to collectively as the assignor and inventor, has invented a certain improvement r	
TRANCEIVER CIRCUIT AND RECEIVER CIRCUIT	
[X] said application being attached hereto;	
said application having been filed in the United States Patent and Trademark Office of as Application Serial No.	
on(if applicable); [] the specification of which was filed under the Patent Cooperation Treaty on	, and was amended
[] 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. and Seoul National University R&DB Four hereinafter referred to as the assignce or applicant, is desirous of acquiring the entire right application, including any and all divisions and continuations thereof, and in and to said is	t, title and interest in and to said
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 consideration paid by said assignee to said assignor, the receipt of which is hereby a assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the interest in and to said application, including any and all divisions and continuations there any and all patents which may be granted therefor, including any and all renewals, reiss assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the all divisions and continuations thereof, and the said invention and any and all patent including any and all renewals, reissues and prolongations thereof, with all the rights, panywise arising from or appertaining thereto, for and during the term or terms of any including any and all renewals, reissues and prolongations thereof, for the use and assignee's successors and assigns, in as ample and beneficial a manner as the said assignity of the same, if this assignment had not been made.	cknowledged, said assignor hereby he full and exclusive right, title and of, and in and to said invention and uses and prolongations thereof; said said application, including any and its which may be granted therefor, owers, privileges and advantages in and all such patents when granted, benefit of said assignee, and said gnor might or could have held and
AND said assignor hereby agrees to perform, upon the request of said assigns assigns, any and all acts relating to the obtaining or to the asserting of said patents, inchand prolongations thereof.	ee, or said assignee's successors or iding any and all renewals, reissues
AND said assignor authorizes and requests the Commissioner of Patents and Tr said application, and on any and all divisions and continuations thereof, to said assignee assigns, in accordance herewith.	ademarks to issue Letters Patent on and said assignee's successors and
As an above-named inventor, I hereby declare that the above-identified applica- made by me, and that I am the original inventor or an original joint inventor of a claimed	tion was made or authorized to be invention in the application.
I hereby acknowledge that any willful false statement made in this declaration in the property of the property	s punishable under 18 U.S.C. 1001
ASSIGNOR (INVENTOR):	
Signature: 12-2	7-2017
Printed or Typed Name: <u>JEONG, Deog-Kyoon</u>	

Page 1 of 1

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	Attorney Docket No.:
Assignment of and declaration for united states lett	IN FOR APPLICATION
WHEREAS KO, Han-Gon	Security A
IRANCEIVER CIRCUIT AND RECEIVER CIRCUIT	ain improvement relating to
[X] said application being attached hereto; [] said application having been filed in the United States Patent and Tr	ademark Office on
[] the specification of which was filed under the Palant Communication	and the second s
Serial No the United States of America being desi	gnated.
AND WHEREAS SK hymix Inc. and Scoul National University hereinafter referred to as the assignee or applicant, is desirous of acquiring application, including any and all divisions and continuations thereof, and which may be granted therefor, including any and all renewals, reissues as	ig the entire right, title and interest in and to said
NOW THIS WITNESSETH, that for and in consideration of consideration paid by said assignee to said assigner, the receipt of wh assigns, selfs and transfers to said assignee, and said assignee's successor interest in and to said application, including any and all divisions and cor any and all patents which may be granted therefor, including any and all assignee, and said assignee's successors and assigns, to have, hold, exercisell divisions and continuations thereof, and the said invention and any including any and all renewals, reissues and prolongations thereof, with anywise arising from or appertaining thereto, for and during the term of including any and all renewals, reissues and prolongations thereof, to assignee's successors and assigns, in as ample and heneficial a manner a enjoyed the same, if this assignment had not been made.	One Dollar (\$1.00), and other good and valuable tich is hereby acknowledged, said assignor hereby as and assigns, the full and exclusive right, title and stimustions thereof, and in and to said invention and I renewals, reissues and prolongations thereof; said are enjoy the said application, including any and all patents which may be granted therefor, all the rights, powers, privileges and advantages in a terms of any and all such patents when granted
AND said assignor hereby agrees to perform, upon the request assigns, any and all acts relating to the obtaining or to the asserting of sai and prolongations thereof.	of said assignee, or said assignee's successors or d patents, including any and all renewals, reissues
AND said assignor authorizes and requests the Commissioner of said application, and on any and all divisions and continuations thereof in	Baltania () ()
said application, and on any and all divisions and continuations thereof, to assigns, in accordance herewith.	rations and frademarks to issue Letters Patent on said assignee, and said assignee's successors and
As an above-named inventor, I hereby declare that the above-ide made by me, and that I am the original inventor or an original joint inventor	ut a craimed invention in the application.
I hereby acknowledge that any willful false statement made in this by fine or imprisonment of not more than five (5) years, or both.	s declaration is punishable under 18 U.S.C. 1001
	est de la companya d La companya de la co
ASSIGNOR (INVENTOR):	w distribution of the state of
Signature: KO · How- Gran Date:	2017, 12,09
Printed or Typed Name: <u>KO, Han-Gon</u>	
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