PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3589090

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MIN-SEOK SHIN	10/12/2015
JUNG-EUN SONG	10/12/2015

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:	14924418

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

Address Line 2: SUITE 650

Address Line 4: VIENNA, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	P15H0108/US
NAME OF SUBMITTER:	JUN JEONG PARK
SIGNATURE:	/Jun Jeong PARK/
DATE SIGNED:	10/27/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

source=IVX000136715_P15H0108US_ASSIGNMENT&DECLARATION#page1.tif source=IVX000136715_P15H0108US_ASSIGNMENT&DECLARATION#page2.tif

PATENT 503542463 REEL: 036895 FRAME: 0802

SI	H	VSI	ING	$:$ \mathbb{N}°	COO 0	113671:	S(P15)	40108/US	١

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT
WHEREAS SHIN, Min-Seok , hereinafter
referred to collectively as the assignor and inventor, has invented a certain improvement relating to
COUNTING CIRCUIT, IMAGE SENSING DEVICE WITH THE COUNTING CIRCUIT AND READ-OUT METHOD OF THE IMAGE SENSING DEVICE
[X] said application being attached hereto; [] said application having been filed in the United States Patent and Trademark Office on
on(if applicable); [] the specification of which was filed under the Patent Cooperation Treaty on,
Serial No, the United States of America being designated.
않는 사람들이 모두 내면을 당하는 것이 하는 사람들이 가는 사람들은 것은 것이 하는 것이 되었다.
hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents 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 other good and valuable consideration paid by said assignee to said assignee, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assigner might or could have held and 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 assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues
and prolongations thereof.
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.
As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be 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 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
승생들은 아내가 가장 아버지의 아내는 것이라고 생각했다면서 그 사람이 없다.
ASSIGNOR (INVENTOR):
Signature SHA MIN SEOK Date: 20/6, 10, 12

Page 1 of 1

Printed or Typed Name: SHIN, Min-Seok

ç	H	1	١	3	Š	Ū	П	٧	(í	:	۳	V	Ý.	() (C	1	Ė	3	Č	, ,	7	ì	5	1	p	ij	1	ζ	ľ	ì	0	1	1)	X	7	ĺ	1	ς	}

WHEREAS SONG, Jung-Eun , hereinafter , hereinafter
referred to collectively as the assignor and inventor, has invented a certain improvement relating to
COUNTING CIRCUIT, IMAGE SENSING DEVICE WITH THE COUNTING CIRCUIT AND READ-OUT METHOD
OF THE IMAGE SENSING DEVICE
[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 was amended
on
Serial No, the United States of America being designated.
AND WHEREASSK hynix Inc
hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents 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 other good and valuable consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledged, said assigner hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and 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 assignee's successors of assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissue and prolongations thereof.
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent or said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.
As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be 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 18 U.S.C. 100 by fine or imprisonment of not more than five (5) years, or both.
그래마 그는 살이 되는 것이 되었다. 그리는 이 사람들은 얼마를 다 되는 그들은 그들은 사람들이 되었다. 그는 사람들은 경우를 받는 것이 없다.
ASSIGNOR (INVENTOR):
Signature: <u>Song Jung-lum</u> Daie: <u>2015, 10, 12</u>
Printed or Typed Name: SONG, Jung-Eun Page 1of 1

RECORDED: 10/27/2015

PATENT REEL: 036895 FRAME: 0804