ASSIGNMENT RECORDATION FORM COVER	,
To: Commissioner for Patents:	Date: February 14, 2013 Attorney Docket No. 5649-3555
Places report the attached original decurrents or computation	Attorney Docket No. 3049-3333
Please record the attached original documents or copy thereof.	T
1. Name of conveying party(ies);	2. Name and address of receiving party(ies):
[1.] YunKi Lee	
[2.] Seunghoon Kim	Samsung Electronics Co., Ltd.
[3.] Yongsick Kim	129, Samsung-ro, Yeongtong-gu
[4.] Changrok Moon	Suwon-si, Gyeonggi-do 443-742
	Republic of Korea
Additional name(s) of conveying party(ies) attached? Yes X No	
3. Nature of conveyance:	
Execution Date(s) [1.] 11/26/2012; [2.] 11/26/2012; [3.]	Additional name(s) & address(es) attached?Yes _XNo
02/06/2013; [4.] 11/26/2012	
X Assignment Merger	, and the second
Security Agreement Change of Name	
Joint Research Agreement	
Government Interest Assignment	
Executive Order 9424, Confirmation License	
Other	
4. Application Serial No. 13/767,135; filed February 14, 2013 If this document is being filed together with a new application is:	the execution date of the application
Additional numbers attached? Yes X No	
5 Norma and address of mostrate will an account of	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
concerning document should be maned.	7. Total fee (37 CFR 3.41) \$40.00
Shawna Cannon Lemon	Enclosed
Myers Bigel Sibley & Sajovec	X Authorized to be charged to deposit account
P. O. Box 37428	2, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1
Raleigh NC 27627	
	8. Deposit account number: 50-0220
W.A. 1 VA	TITTE ON LOW
	E THIS SPACE
9. Statement and signature	
To the best of my knowledge and belief, the foregoing informa	tion is true and correct and any attached copy is a true copy
of the original document.	() ()
Shawna Cannon Lemon, Reg. No. 53,888	A U
3.7 0	February 14, 2013
Name of Person Signing Sighature Total number of pages including cover sheet, attachments and do	Date
	CSIMILE TRANSMISSION
I hereby certify that this correspondence is being facsimile tran	7 CFR § 1.8 1smitted to the U.S. Patent and Trademark Office via facsimile number
571-273,6140 on February 14, 2013.	
1984- Ke Wedlen	
Betty-Loy/Medlin	
Date of/Signature: February 14 2013	· · · · · · · · · · · · · · · · · · ·

PATENT

REEL: 029827 FRAME: 0448

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM²

The unde	rsigned acknowledges that this document is being used both as an assignment of
the Inven	tion and as the declaration (37 CFR 1.63) for a Utility or Design Application.
WHEREAS	5, the undersigned, hereinafter referred to collectively as Assignor, has invented:
Title:	IMAGE SENSORS AND METHODS OF FORMING THE SAME
for which	Assignor is about to make or has made United States or International application
WHEREAS	5, as a below named inventor(s), I/(we) hereby declare that:
Section I.	Declaration
This decla	eration is directed to:
\triangleright	The attached U.S. non-provisional patent application, or
	U.S. non-provisional patent application number, filed on, or
	PCT international patent application number, filed on
The above	e-identified application was made or authorized to be made by me (us).
	ieve that I am (we are) the original inventor (original Joint inventors) of a claimed in the above-identified application.
	reby acknowledge that any willful false statement made in this declaration is le under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or
¹ This form	n requires the use of an Application Data Sheet.
SEC Ref N	o, IB-201110-510-1-USO Attorney Ref No 5649-3555
ACM ADINE	DECLARATION (37 CER 1 63) FOR LITHITY PATENT APPLICATION AND ASSIGNMENT FORM

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PATENT REEL: 029827 FRAME: 0449

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesald application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-

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SEC Ref No.	IB-201110-510-1-US0	Attorney Ref No.	5649-3555

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PATENT REEL: 029827 FRAME: 0450

examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to Issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to Issue or grant patents and applications as aforesaid, to Issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Myers Bigel Sibley & Sajovec, PA the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Section III. Inventor(s)/Assignor(s) Signature(s)

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIRST INVENTOR/ASSIGNOR	ree	YunKi	
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		A CONTRACTOR OF THE CONTRACTOR	

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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	KIM	Seunghoon	
		,	
SIGNATURE _	<u></u>	DATE —	12, 11.26

Family Name	First Given Name	Second Given Name
КІМ	Yongsick	
Then	DATE	13. <i>0</i> 2. <i>0</i> 6
		KIM Yongsick

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FOURTH INVENTOR/ASSIGNOR	MOON	Changrok	
SIGNATURE _	2/202	DATE	12,11,26

SEC Ref No.	1B-201110-510-1-US0	Attorney Ref No.	5649-3555

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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