

700496007 11/06/2012

Form PTO-1595 (Rev. 6-12)
OMB No. 0651-0027 (exp. 04/30/2015)U.S. DEPARTMENT OF COMMERCE
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PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):Yu Jin PARK (09/25/2012), Han YANG (09/25/2012),
Sin-Hwan LIM (09/25/2012), Kyo Jin CHOO
(09/25/2012), and Seog Heon HAM (09/25/2012)Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**2. Name and address of receiving party(ies)**Name: Samsung Electronics Co., Ltd.

Internal Address: _____

Street Address: _____

129, Samsung-ro, Yeongtong-gu

City: Suwon-Si, Gyeonggi-Do

State: _____

Country: Republic of Korea Zip: 443-742Additional name(s) & address(es) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name☐ Security Agreement ☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other _____**4. Application or patent number(s):**☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

13/669,983

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Gary D. Yacura
HARNESS, DICKEY & PIERCE, P.L.C.

Internal Address: Atty. Dkt.: 6668-000195/US

Street Address: P.O. Box 8910

City: RestonState: VA Zip: 20195Phone Number: (703) 668-8000Fax Number: (703) 668-8200Email Address: dcmalroom@hdp.com**6. Total number of applications and patents involved:**

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00☒ Authorized to be charged to deposit account☐ Enclosed☐ None required (government interest not affecting title)**8. Payment Information**Deposit Account Number 08-0750Authorized User Name Gary D. Yacura**9. Signature:**

Signature

Gary D. Yacura - 35,416

Name of Person Signing

November 6, 2012

Date

Total number of pages including cover sheet, attachments, and documents:

7

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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PATENT
REEL: 029280 FRAME: 0525

SAMSUNG ELECTRONICS CO., LTD.

**COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND
ASSIGNMENT FORM¹**

The undersigned acknowledges that this document is being used both as an assignment of
the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

Title: **ANALOG-TO-DIGITAL CONVERSION CIRCUIT, AND IMAGE SENSOR INCLUDING THE
SAME**

for which Assignor is about to make or has made United States or International application
for patent.

WHEREAS, as a below named inventor(s), I/(we) hereby declare that:

Section I: Declaration

This declaration is directed to:

- ☒ 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-identified application was made or authorized to be made by me (us).

I (we) believe that I am (we are) the original inventor (original joint inventors) of a claimed
invention in the above-identified application.

I (we) 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.

¹ This form requires the use of an Application Data Sheet.

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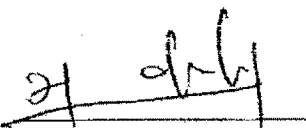
examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation 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 Harness, Dickey & Pierce, PLC 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 FIRST INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	Park	Yu Jin	
<p>SIGNATURE  DATE 2012.9.25</p>			

SEC Ref No. IB-201112-533-1-US0

Attorney Ref No. 6668-000195/US

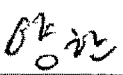
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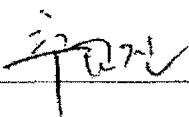
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LEGAL NAME OF SECOND INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	Yang	Han	
<p>SIGNATURE <u></u> DATE <u>2012.09.25</u></p>			

LEGAL NAME OF THIRD INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	Lim	Sin-Hwan	
<p>SIGNATURE <u></u> DATE <u>2012.9.25</u></p>			

LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	Choo	Kyo Jin	
<p>SIGNATURE <u></u> DATE <u>2012.09.25</u></p>			

SEC Ref No. IB-201112-533-1-US0

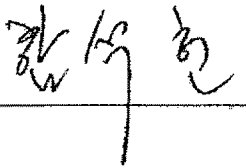
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LEGAL NAME OF FIFTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	Ham	Seog Heon	
<div style="display: flex; justify-content: space-between; align-items: center;"><div>SIGNATURE </div><div>DATE <u>2012.9.25</u></div></div>			

SEC Ref No. IB-201112-533-1-US0

Attorney Ref No. 6668-000195/US

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