

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Min-Seok Oh</td> <td>06/25/2012</td> </tr> <tr> <td>Moo-Sup Lim</td> <td>06/25/2012</td> </tr> <tr> <td>Jung-Chak Ahn</td> <td>06/26/2012</td> </tr> <tr> <td>Eun-Sub Shim</td> <td>06/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Min-Seok Oh	06/25/2012	Moo-Sup Lim	06/25/2012	Jung-Chak Ahn	06/26/2012	Eun-Sub Shim	06/25/2012
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Min-Seok Oh	06/25/2012										
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Jung-Chak Ahn	06/26/2012										
Eun-Sub Shim	06/25/2012										
RECEIVING PARTY DATA											
Name:	Samsung Electronics Co., Ltd.										
Street Address:	129, Samsung-ro										
Internal Address:	Yeongtong-gu										
City:	Suwon-si, Gyeonggi-do										
State/Country:	KOREA, REPUBLIC OF										
Postal Code:	443-742										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13612904</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13612904						
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Application Number:	13612904										
CORRESPONDENCE DATA											
Fax Number:	9198541401										
Phone:	9198541400										
Email:	mmcmahan@myersbigel.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Michele P. McMahan										
Address Line 1:	4140 Parklake Avenue										
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ATTORNEY DOCKET NUMBER:	5649-3508										
NAME OF SUBMITTER:	Michele P. McMahan										

CH \$40.00 13612904

**Total Attachments: 5**

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**ASSIGNMENT**

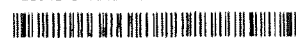
THIS ASSIGNMENT, made by us, **Min-Seok OH**, citizen of the Republic of Korea, residing at 207-202 Jandari Maeul Humansia Apt., Segyo-dong, Osan-si, Gyeonggi-do, Republic of Korea; **Moo-Sup LIM** citizen of the Republic of Korea, residing at 202-803 Sin LG Xi 2 Cha Apt., Sinbong-dong, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Jung-Chak AHN**, citizen of the Republic of Korea, residing at 2201-1704 Baekhyeon Maeul Koaroo Apt., Dongbaek-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea and **Eun-Sub SHIM**, citizen of the Republic of Korea, residing at 489-17, Anyang 6-dong, Manan-gu, Anyang-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **IMAGE SENSOR APPARATUS USING SHADED PHOTODETECTOR FOR TIME OF FLIGHT DETERMINATION** for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. 13/612,904, filed 9/13/12) the filing date and application number of said application when known or to file this Assignment concurrently with the application, and

WHEREAS, **Samsung Electronics Co., Ltd.**, a Korean corporation having a principal place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742 Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International



**ASSIGNMENT – CONTINUED**

Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 25 day of June, 2012.

  
\_\_\_\_\_  
Min-Seok OH (SEAL)

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_



ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 25 day  
of Jun., 2012.

  
\_\_\_\_\_  
Moo-Sup LIM (SEAL)

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_



ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 26 day  
of June, 2012.

Jung Chak AHN (SEAL)  
Jung-Chak AHN

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_



ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 25 day  
of June, 2012.

  
\_\_\_\_\_  
Eun-Sub SHIM (SEAL)

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_

