

## PATENT ASSIGNMENT

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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>Kyu-hwan Choi</td> <td>07/20/2012</td> </tr> <tr> <td>Jung-mok Bae</td> <td>07/20/2012</td> </tr> <tr> <td>Hoon Song</td> <td>07/20/2012</td> </tr> <tr> <td>Sang-yoon Lee</td> <td>07/20/2012</td> </tr> <tr> <td>Yoon-sun Choi</td> <td>07/20/2012</td> </tr> <tr> <td>Eok-su Kim</td> <td>07/20/2012</td> </tr> </tbody> </table>	Name	Execution Date	Kyu-hwan Choi	07/20/2012	Jung-mok Bae	07/20/2012	Hoon Song	07/20/2012	Sang-yoon Lee	07/20/2012	Yoon-sun Choi	07/20/2012	Eok-su Kim	07/20/2012	
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Eok-su Kim	07/20/2012														
RECEIVING PARTY DATA															
Name:	Samsung Electronics Co., Ltd.														
Street Address:	416, Maetan-dong, Yeongtong-gu														
City:	Suwon-si, Gyeonggi-do														
State/Country:	KOREA, REPUBLIC OF														
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>13554443</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	13554443											
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Application Number:	13554443														
CORRESPONDENCE DATA															
Fax Number:	(202)315-3758														
Phone:	202-429-0020														
Email:	info@nsiplaw.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:	NSIP LAW														
Address Line 1:	P.O. Box 34688														
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20043														
ATTORNEY DOCKET NUMBER:	012055.0014														
NAME OF SUBMITTER:	Christopher R. Monday														
Total Attachments: 3 source=NewApp_0120550014_AssignmentExecuted#page1.tif source=NewApp_0120550014_AssignmentExecuted#page2.tif source=NewApp_0120550014_AssignmentExecuted#page3.tif															

OP \$40.00 13554443

## ASSIGNMENT

For valuable consideration, we,

<b>Kyu-hwan CHOI</b>	c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
<b>Jung-mok BAE</b>	c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
<b>Hoon SONG</b>	c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
<b>Sang-yoon LEE</b>	c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
<b>Yoon-sun CHOI</b>	c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
<b>Eok-su KIM</b>	c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

hereby assign to:

**SAMSUNG ELECTRONICS CO., LTD.**, a Republic of Korea

corporation/institution/foundation/institute having principal executive office(s) or place  
of business at: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of  
Korea; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title  
and interest throughout the world in the inventions and improvements which are subject of U.S.  
Patent Application Number 13/554,443 filed July 20, 2012 at the U.S. Patent &  
Trademark Office signed by us, with title **LIGHT REFRACTION CONTROLLING PANEL,  
3D-DISPLAY COMPRISING THE SAME, AND METHOD OF OPERATING THE 3D-  
DISPLAY**, and we authorize and request the attorneys appointed in said application to hereafter  
complete this assignment by inserting above the filing date and application serial number of said  
application when known; this Assignment including said application, any and all United States  
and foreign patents, utility models, and design registrations granted for any of said inventions or  
improvements, and the right to claim priority based on the filing date of said application under  
the International Convention for the Protection of Industrial Property, the Patent Cooperation

Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, preliminary statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

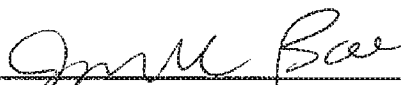
IN TESTIMONY/WITNESS WHEREOF, we, undersigned inventors (Assignors) intending to be legally bound, have hereto affixed our signatures.

This 20 day of July, 2012



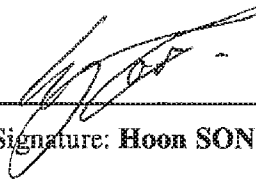
Signature: **Kyu-hwan CHOI**

This 20 day of July, 2012



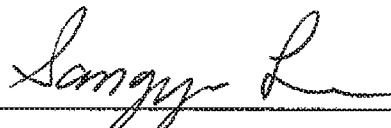
Signature: **Jung-mok BAE**

This 20 day of July, 2012



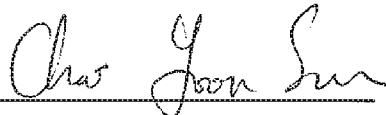
Signature: **Hoon SONG**

This 20 day of July, 2012



Signature: **Sang-yoon LEE**

This 20 day of July, 2012



Signature: **Yoon-sun CHOI**

This 20 day of July, 2012



Signature: **Eok-su KIM**