

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>Pil-Kyu KANG</td> <td>10/27/2010</td> </tr> <tr> <td>Dae Lok BAE</td> <td>10/27/2010</td> </tr> <tr> <td>Gil Heyun CHOI</td> <td>11/02/2010</td> </tr> <tr> <td>Jong Myeong LEE</td> <td>10/27/2010</td> </tr> </tbody> </table>		Name	Execution Date	Pil-Kyu KANG	10/27/2010	Dae Lok BAE	10/27/2010	Gil Heyun CHOI	11/02/2010	Jong Myeong LEE	10/27/2010
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RECEIVING PARTY DATA											
Name:	SAMSUNG ELECTRONICS CO., LTD.										
Street Address:	416, Maetan-dong, Yeongtong-gu										
City:	Suwon-si, Gyeonggi-do										
State/Country:	REPUBLIC OF KOREA										
Postal Code:	442-742										
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>12968488</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12968488						
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Application Number:	12968488										
CORRESPONDENCE DATA											
Fax Number:	(571)283-0740										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	SEC.2868										
NAME OF SUBMITTER:	Stephen R. Whitt										
Total Attachments: 2											

CH \$40.00 12968488

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PATENT
REEL: 025504 FRAME: 0123

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ASSIGNMENT

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

**Insert
Name(s) of
Inventor(s)**

- | | |
|--|---|
| 1. <u>Pil-Kyu KANG</u>
2. <u>Dae Lok BAE</u>
3. <u>Gil Heyun CHOI</u>
4. <u>Jong Myeong LEE</u>
5. _____
6. _____ | 7. _____
8. _____
9. _____
10. _____
11. _____
12. _____ |
|--|---|

**Insert
Name(s) of
Assignee(s) &**

the undersigned hereby sell(s) and assign(s) to

Address(es)

SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-dong, Yeongtong-gu,
Suwon-si, Gyeonggi-do 442-742, Republic of Korea

**Title of
Invention**

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

OPTICAL INPUT/OUTPUT DEVICE FOR PHOTO-ELECTRIC INTEGRATED
CIRCUIT DEVICE AND METHOD OF FABRICATING SAME

**Date of
Signing of
Application**

for which an application for patent in the United States of America has been executed by the undersigned on October 27 and November 2, 2010.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby grant(s) the practitioners associated with the CUSTOMER NUMBER 20987 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date October 27, 2010 Signature of Inventor 
Pil-Kyu RANG

Date October 27, 2010 Signature of Inventor 
Dae Lok BAE

Date November 2, 2010 Signature of Inventor 
Gil Heun CHOI

Date Oct. 27, 2010 Signature of Inventor 
Jong Myeong LEE

Date _____ Signature of Inventor _____

Date _____ Signature of Inventor _____

(Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)

Witness _____

Witness _____

Applicant Reference No. IE-190923-US