

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>Yong-Kwan KIM</td> <td>07/29/2013</td> </tr> <tr> <td>Seong-Ha PARK</td> <td>07/29/2013</td> </tr> <tr> <td>Yong-Chan KEH</td> <td>07/29/2013</td> </tr> <tr> <td>Jung-Kee LEE</td> <td>07/29/2013</td> </tr> <tr> <td>Joong-Wan PARK</td> <td>07/29/2013</td> </tr> </tbody> </table>		Name	Execution Date	Yong-Kwan KIM	07/29/2013	Seong-Ha PARK	07/29/2013	Yong-Chan KEH	07/29/2013	Jung-Kee LEE	07/29/2013	Joong-Wan PARK	07/29/2013
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RECEIVING PARTY DATA													
Name:	Samsung Electronics Co., Ltd.												
Street Address:	129 Samsung-ro, Yeongtong-gu, Suwon-si												
City:	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>13965429</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13965429								
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CORRESPONDENCE DATA													
Fax Number:	2012269246												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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Email:	jeryl.bizzoco@chareiter.com												
Correspondent Name:	Cha & Reiter, LLC												
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ATTORNEY DOCKET NUMBER:	5000-1-1569												
NAME OF SUBMITTER:	Steve Cha												
Signature:	/Steve Cha/												

PATENT

Date:

08/13/2013

Total Attachments: 3

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Assignment of Invention and Patent Application

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration,

- 1) Yong-Kwan KIM of
#208-1204, Samho Jindeok APT., Cheoncheon-dong, Jangan-gu, Suwon-si, Gyeonggi-do,
Republic of Korea
- 2) Seong-Ha PARK of
#431-602, Cheongmyeongmaeul 4-danji APT., Yeongtong 1-dong, Yeongtong-gu, Suwon-si,
Gyeonggi-do, Republic of Korea
- 3) Yong-Chan KEH of
#104-205, Cheongdam Xi APT., 12, Yeongdong-daero 138-gil, Gangnam-gu, Seoul,
Republic of Korea
- 4) Jung-Kee LEE of
#105-501, Daedong APT., 64, Unam-ro, Osan-si, Gyeonggi-do, Republic of Korea
- 5) Joong-Wan PARK of
#120-201, Maetan Weve Haneulchae APT., 363, Hyowon-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, Republic of Korea

(hereinafter **Assignor**) hereby sells, assigns, transfers, and sets over unto:

SAMSUNG ELECTRONICS CO., LTD. of
129, SAMSUNG-RO, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO, 443-742
REPUBLIC OF KOREA

(hereinafter **Assignee**) the entire right, title and interest for the United States Of America as defined in 35 U.S.C. Section 261, in and to the invention entitled as:

ILLUMINATION OPTICAL SYSTEM FOR BEAM PROJECTOR

invented by **Assignor**; the application for United States patent therefor, invented by **Assignor**; any patent or reissues of any patent that may be granted thereon; and any applications which are continuations, continuation-in-part, substitutes, or divisions of said application. **Assignor**

authorizes Assignee to enter the date of signature and/or Serial Number and Filing Date in the above. Assignor also authorizes and requests the Commissioner of Patents and Trademarks to issue any resulting patent(s) to the said Assignee, for its interests as Assignee, its successors, assigns and legal representatives. The undersigned agrees that the attorney of record in said application shall hereafter act on behalf of said Assignee; and Assignor further conveys to Assignee all priority rights resulting from the above-identified application for United States Patent. Assignor agrees to execute all papers, give any required testimony and perform other lawful acts, as deemed essential by Assignee to perfect Assignee's interest in any resulting patent of the United States, and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions thereof, and Assignee's interest therein.

SIGNED ON THE DATES(S) INDICATED BESIDE MY/OUR SIGNATURE(S):

Name of First Inventor: Yong-Kwan KIM

Kim Yong Kwan
Signature of inventor

Dated: 2013.07.29

WITNESSED: _____

Name of Second Inventor: Seong-Ha PARK

SeongHa Park
Signature of inventor

Dated: 2013.07.29

WITNESSED: _____

Name of third Inventor: Yong-Chan KEH

Yong chan Keh
Signature of inventor

Dated: 2013.07.29

WITNESSED: _____

Name of fourth Inventor: Jung-Kee LEE

Jungkee Lee
Signature of inventor

Dated: 2013.07.29

WITNESSED: _____

Name of fifth Inventor: Joong-Wan PARK

Joongwan Park
Signature of inventor

Dated: 2013.07.29

WITNESSED: _____