

11-23-2005

FORM PTO-1595
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Attorney Docket No. 5000-1-730

To the Assistant Commissioner for Patents

1. Name of conveying party(ies):

Kyoung-Youm KIM; Jeong-Hwan SONG;
Se-Yoon KIMAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Other: _____

Execution Date: November 11, 2005

2. Name and address of receiving party(ies):

Name: SAMSUNG ELECTRONICS CO., LTD.Address: 416, MAETAN-DONG, YEONGTONG-GUSUWON-SI, GYEONGGI-DOREPUBLIC OF KOREAAdditional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: November 11, 2005

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Steve ChaAddress: CHA & REITER
210 Route 4 East, Suite #103
Paramus, New Jersey 076526. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00☒ Enclosed☒ Authorized to be charged to deposit account, if necessary
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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Steve Cha, Reg No.44,069
Name of Person Signing
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(BDSM 8)
(9/94)PATENT
REEL: 017249 FRAME: 0108

Assignment of Invention and Patent Application

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of TEN (\$10.00) DOLLAR,

- 1) Kyoung-Youm KIM of
#9-801, Miseong APT., 17-6, Sincheon-dong, Songpa-gu, Seoul, Republic of Korea
- 2) Jeong-Hwan SONG of
224-16, Bangi-dong, Songpa-gu, Seoul, Republic of Korea
- 3) Se-Yoon KIM of
#110-1004, Hyundai Feel Green, Mabuk-ri, Guseong-eup, Yongin-si, Gyeonggi-do,
Republic of Korea

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

SAMSUNG ELECTRONIC CO., LTD. of
416, MAETAN-DONG, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO,
REPUBLIC OF KOREA

(hereinafter **Assignee**) the entire right, title and interest for the United States Of America as defined in 35 U.S.C. § 1.00, in and to the invention entitled as:

"Planar Lightwave Circuit Having Optical Filter"

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.

Name of First Inventor: Kyoung-Youm KIM

WITNESSED: Jong-Hee KIM
Jong-Hee KIM

Jeong Hwan Song
Signature of inventor

WITNESSED: Jong-Hee KIM
Jong-Hee KIM

Se-Yoon Kim
Signature of inventor

WITNESSED: Jong-Hee KIM
Jong-Hee KIM