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Attorney Docket No. 5000-1-553

To the Assistant Commissioner for Patents

U.S. PTO
10/869434

061604

1. Name of conveying party(ies): 6-16-04
Se-Youn LIM; Jae-Yeon SONG; Jin-Hee KIM;
Seo-Won KWON; Yoon-Sun LEE; Jong-Hwa LEEAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Other: _____

Execution Date: June 10, 2004

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: June 10, 2004

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No 16869434

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[Signature]
Signature6/16/04
Date

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(BDSM 8)
(9/94)PATENT
REEL: 015488 FRAME: 0932

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) Se-Youn LIM of
#2-308, Singuro Hyundai APT., 74-30, Guro-dong, Guro-gu, Seoul, Republic of Korea
- 2) Jae-Yeon SONG of
#514-902, Yangjimaoul Hanyang APT., Sunae-dong, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
- 3) Jin-Hee KIM of
#544-707, Ssangyong APT., 963-2, Yeongtong-dong, Paldal-gu, Suwon-si, Gyeonggi-do,
Republic of Korea
- 4) Seo-Won KWON of
#301, 1015-4, Yeongtong-dong, Paldal-gu, Suwon-si, Gyeonggi-do, Republic of Korea
- 5) Yoon-Sun LEE of
824-1, Sindang 2-dong, Jung-gu, Seoul, Republic of Korea
- 6) Jong-Hwa LEE of
#942-1404, Lotte APT., Yeongtong-dong, Paldal-gu, Suwon-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:

MULTICAST TRANSMISSION METHOD IN GEM MODE IN GIGABIT-CAPABLE PASSIVE OPTICAL NETWORK AND METHOD OF PROCESSING FRAME

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 Sole or First Inventor: Se-Youn LIM Se-Youn LIM
Signature of inventor

Dated: June 10, 2004

WITNESSED: Jong-Hee KIM

Name of Second Inventor: Jae-Yeon SONG Jae-Yeon SONG
Signature of inventor

Dated: June 10, 2004

WITNESSED: Jong-Hee KIM

Name of Third Inventor: Jin-Hee KIM Jin-Hee Kim
Signature of inventor

Dated: June 10, 2004

WITNESSED: Jong-Hee KIM

Name of Fourth Inventor: Seo-Won KWON Seo-Won KWON
Signature of inventor

Dated: June 10, 2004

WITNESSED: Jong-Hee KIM

Name of Fifth Inventor: Yoon-Sun LEE Yoon-Sun Lee
Signature of inventor

Dated: June 10, 2004

WITNESSED: Jong-Hee KIM

Name of Sixth Inventor:

Jong-Hwa LEE

Jong-Hwa LEE

Signature of inventor

Dated: June 10, 2004

WITNESSED: Jong-Hee KIM