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Attorney Docket No. 5000-1-470

To the Assistant Commissioner for Patents

1. Name of conveying party(ies):

Jae-Yeon SONG; Jin-Hee KIM; A-Jung KIM;
Min-Hyo LEE; Se-Youn LIM; Su-Hyung KIM;
Jong-Ho YOON

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name

Other: _____

Execution Date: September 9, 2003

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

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416. MAETAN-DONG, PALDAL-GU

SUWON-CITY, KYUNGKI-DO

KOREA, REPUBLIC OF KOREA

Additional 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: September 9, 2003

A. Patent Application No.(s)

10/659158

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 Cha

Address: CHA & REITER
411 Hackensack Avenue, 9th Floor
Hackensack, New Jersey 07601

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

Enclosed

Authorized to be charged to deposit account, if necessary
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8. Deposit account number: 502-470

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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

9/10/03
Date

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:

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Assistant Commissioner for Patents
Box Assignments
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17888 U.S. PTO
10/659158
09/10/03

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) Jac-Yeon SONG of
#514-902, Yangjimaetul Hanyang APT., Sunae-dong, Pundang-gu, Songnam-shi,
Kyonggi-do, Republic of Korea
- 2) Jin-Hee KIM of
#544-707, Ssangyong APT., 963-2, Youngtong-dong, Paldal-gu, Suwon-shi, Kyonggi-do,
Republic of Korea
- 3) A-Jung KIM of
#5-805, Cheonghwa APT., Itaewon 2-dong, Yongsan-gu, Seoul, Republic of Korea
- 4) Min-Hyo LEE of
#902-506, Jugong APT., Byuckjukgol 9-danji, Youngtong-dong, Paldal-gu, Suwon-shi,
Kyonggi-do, Republic of Korea
- 5) Se-Youn LIM of
#302, Shinwonvillage, 1054-33, Namhyon-dong, Kwanak-gu, Seoul, Republic of Korea
- 6) Su-Hyung KIM of
#5-706, Woosung APT., Pungnap 2-dong, Songpa-gu, Seoul, Republic of Korea
- 7) Jong-Ho YOON of
200-1, Hwajong-dong, Dukyang-gu, Koyang-shi, Kyonggi-do, Republic of Korea

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

SAMSUNG ELECTRONIC CO., LTD. of
416, MAETAN-DONG, PALDAL-GU, SUWON-CITY, KYUNGKI-DO, KOREA
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:

METHOD FOR CHECKING MULTICAST LLID TRANSMISSION IN ETHERNET PASSIVE OPTICAL NETWORK

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: Jae-Yeon SONG Jae-Yeon SONG
Signature of inventor

Dated: September 9, 2003

WITNESSED: Jung

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

Dated: n September 9, 2003

WITNESSED: Jung

Name of Third Inventor: A-Jung KIM A-Jung Kim
Signature of inventor

Dated: September 9, 2003

WITNESSED: Jung

Name of Fourth Inventor: Min-Hyo LEE Min-Hyo LEE
Signature of inventor

Dated: September 9, 2003

WITNESSED: Jung

Name of Fifth Inventor: Se-Youn LIM Se-Youn LIM
Signature of inventor

Dated: September 9, 2003

WITNESSED: [Signature]

Name of Sixth Inventor: Su-Hyung KIM Su-Hyung Kim
Signature of inventor

Dated: September 9, 2003

WITNESSED: [Signature]

Name of Seventh Inventor: Jong-Ho YOON Jong-Ho YOON
Signature of inventor

Dated: September 9, 2003

WITNESSED: [Signature]