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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

10/23/02

Do-In Choi; Yun-Je Oh; Min-Hyo Lee; Soon-Ho Jang; Hwan-Jin Sung; Tae-Sung Park

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

2. Name and address of receiving party(ies)

Name: Samsung Electronic Co., Ltd.

Internal Address:

416, Maetang-Dong, Paldal-Gu, Suwon-City

Kyungki-do, Republic of Korea

Street Address:

City: State: Zip:

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

Execution Date: October 14, 2002

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

10/278305

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

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 Cha, Esq.

Internal Address: CHA & REITER

411 Hackensack Ave, 9th floor

Hackensack, NJ 07601

Street Address:

6. Total number of applications and patents involved:

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

- Enclosed Authorized to be charged to deposit account

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

10/23/02 Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT REEL: 013419 FRAME: 0718

1036 U.S. PTO 10/278305 10/23/02

10/25/2002 MAHME1 00000030 10278305 02 FC:8021 40.00 DP

PTO/SB/15

Customer No.:33942
Docket No.:**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) Do-In CHOI of
955, Togok-dong, Kangnam-gu, Seoul, Republic of Korea
- 2) Yun-Je OH of
#805-106, Dusan APT., Youngtong-dong, Paldal-gu, Suwon-shi, Kyonggi-do,
Republic of Korea
- 3) Min-Hyo LEE of
#902-506, Jugong APT., Byuckjukgol 9-danji, Youngtong-dong, Paldal-gu, Suwon-shi,
Kyonggi-do, Republic of Korea
- 4) Soon-Ho JANG of
#404-404, Jugong APT., Neutimaecul, Chongja-dong, Pundang-gu, Songnam-shi, Kyonggi-do,
Republic of Korea
- 5) Hwan-Jin SUNG of
1020-4, Youngtong-dong, Paldal-gu, Suwon-shi, Kyonggi-do, Republic of Korea
- 6) Tac-Sung PARK of
#612-1201, Kukdong APT., Youngtong-dong, Paldal-gu, Suwon-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:

**GIGABIT ETHERNET PASSIVE OPTICAL NETWORK SYSTEM AND MEDIA
ACCESS CONTROL METHOD FOR THE SAME**

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: Do-In CHOI



Signature of inventor

Dated: Oct. 14, 2002

WITNESSED: 

Name of Second Inventor: Yun-Je OH



Signature of inventor

Dated: Oct. 14, 2002

WITNESSED: 

Name of Third Inventor: Min-Hyo LEE

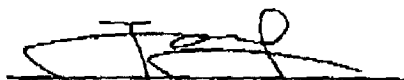


Signature of inventor

Dated: Oct. 14, 2002

WITNESSED: 

Name of Fourth Inventor: Soon-Ho JANG


Signature of inventor


Dated: Oct. 14, 2002

WITNESSED: 

Name of Fifth Inventor: Hwan-Jin SUNG


Signature of inventor

Dated: Oct. 14, 2002

WITNESSED: 

Name of Sixth Inventor: Tae-Sung PARK


Signature of inventor

Dated: Oct. 14, 2002

WITNESSED: 