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

1. Name(s) of conveying party(ies):

1) SANG HO LEE
2) CHAN KIM
3) HONG JU KIM
4) _____
5) _____
6) _____

Additional names of conveying parties attached? Yes No

2. Name and address of receiving party:

Name: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

Internal Address: _____

Street Address: 161 KAJONG-DONG
YUSONG-GU

Postal Code & City: TAEJON, 305-350

Country REPUBLIC OF KOREA

Additional names & addresses attached? Yes No

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3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Dates:

1) JANUARY 26, 2000 4) _____
 2) JANUARY 26, 2000 5) _____
 3) JANUARY 26, 2000 6) _____

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

If this document is being filed together with a new application, the execution date of the application is FEBRUARY 4, 2000.

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: Seed Intellectual Property Law Group PLLC

Internal Address: E. RUSSELL TARLETON

Street Address: 701 Fifth Avenue, Suite 6300

City: Seattle State: WA ZIP: 98104-7092

6. Total number of applications and patents involved..... 1

7. Total Fee (37 CFR 3.41): \$40

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:
19-1090

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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.

E. RUSSELL TARLETON *E. Russell Tarleton* 2/4/00
 Name of Person Signing Signature Date

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

ASSIGNMENT

WHEREAS, we, Sang Ho Lee, Chan Kim, and Hong ju Kim (hereinafter referred to as ASSIGNORS), having post office addresses of Chowon APT 101-611, Manyeon-dong, Seo-gu, Taejon, Republic of Korea; Seowoo APT 103-1305, Nae-dong, Seo-gu, Taejon, Republic of Korea; and Gangbyeon APT 103-903, Manyeon-dong, Seo-gu, Taejon, Republic of Korea, respectively, are the joint inventors of an invention entitled "ONU FUNCTION PROCESSING APPARATUS IN ATM-PON SYSTEM," as described and claimed in the specification forming part of an application for United States letters patent executed herewith claiming priority based on applications filed in Korea identified by Application No. 1999- 62773 , filed December 27, 1999;

WHEREAS, Electronics and Telecommunications Research Institute (hereinafter referred to as ASSIGNEE), a non-profit organization of Korea having a place of business at 161 Kajong-Dong, Yusong-Gu, Taejon, 305-350, Republic of Korea, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters

patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

Date Jan. 26, 2000

Sang Ho Lee SH Lee

Date Jan. 26, 2000

Chan Kim CKim

Date Jan. 26, 2000

Hong Ju Kim Hong Ju Kim