7644993110 DOCKET: 01-10-2006 CU-4641 WWP Form PTO-1595 (Rev. 06/04) U.S. DEPARTMENT OF COMMERCE OMB No. 0651-0027 (exp. 6/30/2005) United States Patent and Trademark Office RE 103155722 To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies)/Execution Date(s): 2. Name and address of receiving party(ies) 1) SHIN, Dong Beom Dec. 21, 2005 Name: ELECTRONICS AND TELECOMMUNICATIONS 2) KWON, Yool Dec. 22, 2005 boternalvActobeas: RESEARCH INSTITUTE Dec. 23, 2005 3) KIM, Bong Tae Execution Date(s) Street Address: 161 Gajeong-dong, Additional name(s) of conveying party(ies) attached? Yes Yuseong-gu, Daejeon, Republic of Z 3. Nature of conveyance: Korea Assignment Merger City: Security Agreement Change of Name State: Government Interest Assignment Country: Executive Order 9424, Confirmatory License Additional name(s) & address(es) attached? Yes No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 01/04/20 6 HLE333 00000009 11321581 05 FC:8011 40.00 OP Additional numbers attached? 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: Woochoon W. Park Name: 40.00 7. Total fee (37 CFR 1.21(h) & 3.41) \$_ Authorized to be charged by credit card Internal Address: Authorized to be charged to deposit account Enclosed Street Address: c/o Ladas & Parry None required (government interest not affecting title) 224 South Michigan Avenue 8. Payment Information City: Chicago a. Credit Card Last 4 Numbers _ State: Illinois 60604 Zip: Expiration Date __ (312) 427-1300 b. Deposit Account Number 12-0400 Phone Number:

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Woochoon W. Park

PATENT REEL: 017425 FRAME: 0195

December 29, 2005

Authorized User Name Ladas & Parry LLP

Total number of pages including cover

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UNITED STATES OF AMERICA ASSIGNMENT

In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for the other good and valuable consideration,

ASSIGNOR:

Dong Beom SHIN

101-1105 Baekhap Apt., Wolpyung-2-dong, Sco-gu, Daejeon, Republic of Korea

Yool KWON

1-405 Samsung Apt., 35-8 Namsan-dong, Geumjung-gu, Busan, Republic of Korea

Bong Tae KIM

106-703 Hanbit Apt., Eceun-dong, Yusong-gu, Daejeon, Republic of Korea

hereby sells, assigns and transfers to

ASSIGNEE:

ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE 161 Gajeong-dong, Yusong-gu, Daejeon, Republic of Korea

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the Application entitled

BANDWIDTH ALLOCATION DEVICE FOR GUARANTEEING QoS IN ETHERNET PASSIVE OPTICAL ACCESS NETWORK

which application was

(a) executed by the undersigned on	even date nerewith
(b) filed as Serial No.	on
and, in and to all Letters Patent to be obtained f any continuation, division, renewal, substitute, re	for said invention by the above application or eissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits

PATENT REEL: 017425 FRAME: 0196 required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/we have set our hand and seal

Dec. 23, 2005 Bonofae 4.

PATENT
RECORDED: 12/29/2005 REEL: 017425 FRAME: 0197