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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):

- 1) HONG, Seung-Eun
- 2) KWON, Ho-Jin
- 3) KWON, O-Hyung
- 4) LEE, Soo-In

Execution Date(s) December 18, 2006

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Government Interest Assignment
- ☐ Executive Order 9424, Confirmatory License
- ☐ Other _____

2. Name and address of receiving party(ies)

Name: ELECTRONICS AND TELECOMMUNICATIONS

Internal Address: RESEARCH INSTITUTE

Street Address: 161 Gajeong-dong,

Yuseong-gu, Daejeon, Republic of

Korea

City: _____

State: _____

Country: _____ Zip: _____

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

4. Application or patent number(s):

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Woochoon W. Park

Internal Address: _____

Street Address: c/o Ladas & Parry

224 South Michigan Avenue

City: Chicago

State: Illinois Zip: 60604

Phone Number: (312) 427-1300

Fax Number: _____

Email Address: _____

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
- ☐ Authorized to be charged to deposit account
- ☒ Enclosed
- ☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
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b. Deposit Account Number 12-0400

Authorized User Name Ladas & Parry LLP

9. Signature:

December 22, 2006

Signature

Date

Woochoon W. Park

Name of Person Signing

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

3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT

REEL: 018727 FRAME: 0459

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:

HONG, Seung-Eun / #103-401 Daerim Durae Apt., Sinseong-dong, Yuseong-gu,
Daejeon 305-720, Republic of Korea

KWON, Ho-Jin / #A-101 Jungang Town, 685-210, Sillim 7-dong, Gwanak-gu,
Seoul 151-886, Republic of Korea

KWON, O-Hyung / #107-1103 Hanbit Apt., Eoeun-dong, Yuseong-gu, Daejeon 305-755,
Republic of Korea

LEE, Soo-In / #106-606 Clover Apt., Dunsan-dong, Seo-gu, Daejeon 302-120,
Republic of Korea

hereby sells, assigns and transfers to

ASSIGNEE: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE
ADDRESS: 161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, 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

APPARATUS AND METHOD FOR DETERMINING DOWNSTREAM TOPOLOGY
IN HYBRID-FIBER-COAXIAL NETWORK

which application was

☒ (a) executed by the undersigned on even date herewith

☐ (b) filed as Serial No. _____ on _____

and, in and to all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, substitute, reissue 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;


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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 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.

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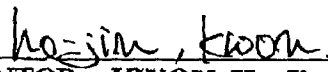
Dec. 18, 2006

Date


INVENTOR HONG, Seung-Eun

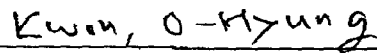
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INVENTOR KWON, Ho-Jin

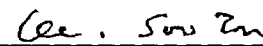
Dec 18, 2006

Date


INVENTOR KWON, O-Hyung

Dec 18, 2006

Date


INVENTOR LEE, Soo-In