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To the Honorable Commissioner of Patents and Trademarks. Please record.

all documents or copy thereof.

1. Name of conveying party(ies):
Chan Kim; Ho Sook Lee; Tae Whan Yoo; Hyeong Ho Lee

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

2. Name and address of receiving party(ies):
Name: **Electronics and Telecommunications Research Institute**

Internal Address: _____

Street Address: **161 Gajeong-dong, Yusong-gu**

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: 5/29/03, 6/5/03,

City: **Daejeon-city** State: _____ ZIP: _____

Country: **Rep. of Korea**

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

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: _____

A. Patent Application No.(s)
10,629,889

B. Patent No.(s)

Additional numbers attached? No Yes

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **Blakely, Sokoloff, Taylor & Zafman LLP**

Internal Address: _____

Street Address: **12400 Wilshire Boulevard
7th Floor**

City: **Los Angeles** State: **CA** ZIP: **90025**

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

7. Total Fee (37 CFR 3.41).....\$ **40.00**
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To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

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7/29/03
Date

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Docket No. 2013P097

PATENT
REEL: 014341 FRAME: 0580

17354 JLS PTO
10/629889
07/29/03

08/05/2003 DBYRNE 00000168 10629889
01 FC:0021 40.00 DD

ASSIGNMENT

In consideration of the receipt of good and valuable consideration in hand paid, the rec and sufficiency of which is hereby acknowledged, the undersigned,

- (1) KIM, Chan (5) _____
(2) LEE, Ho Sook (6) _____
(3) YOO, Tae Whan (7) _____
(4) LEE, Hyeong Ho (8) _____

who have made a certain new and useful invention, hereby sell, assign and transfer unto Electronics and Telecommunications Research Institute of 161 Gajeong-dong
Yusong-gu, Daejeon-city, Rep. of Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

APPARATUS FOR EXECUTING MULTI-POINT CONTROL PROTOCOL IN ETHERNET
PASSIVE OPTICAL NETWORK

(a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____ ;
or

(b) for which an application for United States Letters Patent was executed on _____

and the undersigned hereby authorize and request the United States Commissioner of Patent and Trademark issue any and all United States Letters Patents which may be granted therefor and any and all extens divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the Interna Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said applic shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in ma application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remunera in and to any improvements, and applications for patent based thereon, growing out of or related to the invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representat deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED of the dates indicated aside our signatures:

<u>INVENTORS</u>	<u>DATE SIGNED</u>
1) <u>Chan Kim</u> Name: KIM, Chan	<u>5/29/2003</u>
2) <u>Ho Sook Lee</u> Name: LEE, Ho Sook	<u>June 5, 2003</u>
3) <u>Tae Whan Yoo</u> Name: YOO, Tae Whan	<u>6/5/2003</u>
4) <u>Hyeong Ho Lee</u> Name: LEE, Hyeong Ho	<u>June 5, 2003</u>