

Form PTO-1595  
September 11, 1997

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8/ 857,352  
SHEET

U.S. DEPARTMENT OF COMMERCE

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100727430

9/15/97  
Attorney Docket No.: 4576-86

1. Name of conveying party(ies):

SEP 15 1997  
Gwan-Joong KIM  
Young-Sun KIM  
PATENT & TRADEMARK OFFICE

2. Name and address of receiving party(ies):

Name: Electronics and  
Telecommunications Research  
Institute

Internal Address:

Street Address: 161 Gajung-Dong, Yusong-ku

City: Daejeon

Country/State/Zip: Korea

Additional names and addresses attached? [x] yes [ ] no;

Korea Telecom  
100 Sejongno  
Chongno-ku, Seoul, Korea

Additional name(s) of conveying party(ies) attached?  
[ ] yes [X] no

3. Nature of Conveyance

[X] Assignment [ ] Merger  
[ ] Security Agreement [ ] Change of Name  
[ ] Other

Execution Date: May 21, 1997

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 May 21, 1997;

A. Patent Application No.(s)

08/857,352

B. Patent No.(s):

N/A

Additional numbers attached? [ ] Yes [X] No

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

Name: Martin B. Pavane, Esq.

Internal Address: Cohen, Pontani, Lieberman & Pavane

Street Address: 551 Fifth Avenue, Suite 1210

City: New York State: NY ZIP: 10176

6. Total number of applications and patents involved:  
[1]

7. Total fee (37 C.F.R. 3.41) \$ 40.00

[X] Enclosed

[ ] Authorized to be charged to deposit account

8. Deposit account number: 03-2412

(Attach duplicate copy of this page if paying by deposit account)

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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.

Martin B. Pavane, Esq.

Name of Person Signing  
Reg. No. 28,337

Signature

September 11, 1997

Date

Total number of pages including cover sheet, attachments and document [4]

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PATENT

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## ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, We/I the undersigned,

Gwan-Joong KIM & Young-Sun KIM

(hereinafter referred to as "ASSIGNOR").

Hereby sell, assign and transfer to ~~Electronics and Telecommunications~~  
Research Institute & Korea Telecom

(hereinafter referred to as "ASSIGNEE"), a corporation of ~~Republic of Korea, respectively~~  
having a place of business at 161 Gajung-Dong, Yusong-ku, Daejeon, Korea  
& 100 Sejongno, Chongno-ku, Seoul, Korea

its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

☒ which was filed on May 16, 1997 and accorded  
U.S. Serial No. \_\_\_\_\_.

☐ which has been executed by the undersigned concurrently herewith,

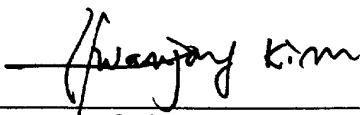
Maintenance method for subscriber lines of broadband network  
and is entitled termination apparatus in an asynchronous transfer mode  
permanant virtual connection switching system  
and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all  
other applications for Letters Patent which have been or shall be filed in the United States and

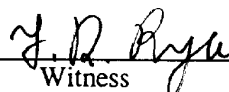
all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name, and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers, communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: May 21, 1997  
month/day/year

  
Signature of First Inventor

  
Witness

Witness

Date: May 21, 1997  
month/day/year

Signature of Second Inventor

Longman, Jr.

Witness

J. D. Ryan

Witness

Date: \_\_\_\_\_  
month/day/year

Signature of Third Inventor

Witness

Witness

Date: \_\_\_\_\_  
month/day/year

Signature of Fourth Inventor

Witness

Witness

Date: \_\_\_\_\_  
month/day/year

Signature of Fifth Inventor

Witness

Witness

Date: \_\_\_\_\_  
month/day/year

Signature of Sixth Inventor

Witness

Witness