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EET

U.S. DEPARTMENT OF COMMERCE  
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101078773

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

1. Name of conveying party(ies):

YOUNG TAE HAN  
SOON HONG KWON  
DONG HO LEE  
SUNG HO CHO

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

KOREA TELECOMMUNICATION AUTHORITY  
#100, SEJONGRO, JONGRO-KU  
SEOUL, KOREA

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

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other:

Execution Date: August 5, 1996

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: August 9, 1996

A. Patent Application No.(s)

08/695,294

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Curtis B. Hamre  
Address: Merchant, Gould, Smith, Edell,  
Welter & Schmidt  
3100 Norwest Center  
90 South Seventh Street  
Minneapolis, MN 55402-4131

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Please charge any additional fees or credit any overpayments to our Deposit account number: 13-2725

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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.

Curtis B. Hamre  
Name of Person Signing

*Curtis B. Hamre*  
Signature

August 9, 1996  
Date

Total number of pages including cover sheet, attachments, and document: 2

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Mail documents to be recorded with required cover sheet information to:  
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**INSTRUCTIONS**

**ASSIGNMENT TO CORPORATION (FOR USA ONLY)**

Inventor(s)  
Name  
  
Date Patent  
Declaration  
Signed and  
Title, Serial  
No. and  
Filing  
  
Name of  
Corporation  
  
State or  
Country of  
Incorporation  
and Address

**WHEREAS,**

1. Young Tae HAN residing at C/O, Korea Telecommunication Authority,  
62-1 Whaam-dong, Yusung-ku, Taejeon, Korea 305-348  
and a citizen of Republic of Korea;
  2. Soon Hong KWON residing at C/O, Korea Telecommunication Authority,  
62-1 Whaam-dong, Yusung-ku, Taejeon, Korea 305-348  
and a citizen of Republic of Korea;
  3. Dong Ho LEE residing at C/O, Korea Telecommunication Authority,  
62-1 Whaam-dong, Yusung-ku, Taejeon, Korea 305-348  
and a citizen of Republic of Korea;
- (herein called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States on \_\_\_\_\_ for this invention, which application is entitled "PHASE LOCKED LOOP FOR MPEG SYSTEM" and which has been given Serial Number \_\_\_\_\_ and the filing date of \_\_\_\_\_;

**AND WHEREAS** Korea Telecommunication Authority (herein called "ASSIGNEE"), a corporation organized under the laws of Korean, and having an office and place of business at #100, Sejongro, Jongro-ku, Seoul, Korea wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign and transfer to the ASSIGNEE, its successors and assigns, the entire right, title and interest for all countries in and to the invention disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to the ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED hereby agree that the UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Each Inventor  
must sign  
& date  
  
Note: No  
legalization or  
other witness  
required

<i>Young Tae Han</i>		August 5, 1996
Signature Young Tae HAN		Date
<i>Soon Hong Kwon</i>		August 5, 1996
Signature Soon Hong KWON		Date
<i>Dong Ho Lee</i>		August 5, 1996
Signature Dong Ho LEE		Date

MERCHANT & GOULD

07/22/1999 13:18

612-371-5224

**INSTRUCTIONS**

**ASSIGNMENT TO CORPORATION (FOR USA ONLY)**

Inventor(s)  
Name

WHEREAS,

1. Sung Ho CHO residing at C/O, Korea Telecommunication Authority,  
62-1 Whaam-dong, Yusung-ku, Taejeon, Korea 305-348  
and a citizen of Republic of Korea
2. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_
3. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_

Date Patent  
Declaration  
Signed and  
Title: Serial  
No. and  
Filing

(herein called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States on \_\_\_\_\_ for this invention, which application is entitled "PHASE LOCKED LOOP FOR MPEG SYSTEM" and which has been given Serial Number \_\_\_\_\_ and the filing date of \_\_\_\_\_

Name of  
Corporation  
State or  
Country of  
Incorporation  
and Address

AND WHEREAS Korea Telecommunication Authority (herein called "ASSIGNEE"), a corporation organized under the laws of Korean, and having an office and place of business at #100, Sejongro, Jongro-ku, Seoul, Korea

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign and transfer to the ASSIGNEE, its successors and assigns, the entire right, title and interest for all countries in and to the invention disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to the ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED hereby agree that the UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Each Inventor  
must sign  
& date

S. H. Cho  
Signature Sung Ho CHO

August 5, 1996  
Date

Note: No  
legalization or  
other witness  
required

Signature \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

MERCHANT & GOULD

V910313

RECORDED: 08/09/1996

PATENT  
REEL: 009973 FRAME: 0799