

02-09-2005

FORM PTO-1595

(Rev. 10/02)

OMD No. 0651-0011 (exp. 6/30/2005)



U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

102936507

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

1. Name of conveying party(ies):

Tae Sik CHEUNG; Jae Wook LEE; Woo Young CHOI; Bhum Cheol LEE; Bong Tae KIM; Jong Hyun LEE

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

Name: Electronics and Telecommunications Research Institute

Internal Address: _____

Street Address: 161 Gajeong-dong, Yusong-gu

Additional name(s) of conveying party(ies) attached?

☒ No ☐ Yes

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____City: Daejeon State: _____ ZIP: _____Country: Republic of KoreaExecution Date: 4/7/04; 4/28/04; 4/30/04Additional 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)

10/855,258

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 FloorCity: Los Angeles State: CA ZIP: 900256. Total number of applications and patents involved: 17. Total Fee (37 CFR 3.41).....\$ 40.00☐ Enclosed☐ Authorized to be charged to deposit account

8. Deposit Account Number:

02-2666

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

DO NOT USE THIS SPACE

9. Statement and signature.

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.

Eric S. Hyman

Name of Person Signing

Signature EAHDate 1/29/05Total number of pages including cover sheet, attachments, and document: 3

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

Mail Stop Assignment Recordation Services
Director of the US Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Docket No. 2013P170

PATENT
REEL: 016230 FRAME: 0161

5-26-04

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

1. Name of conveying party(ies):
Tae Sik CHEUNG; Jae Wook LEE; Woo Young CHOI; Bhum Cheol LEE; Bong Tae KIM; Jong Hyun LEE

Additional name(s) of conveying party(ies) attached?

☒ No ☐ Yes

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: 4/7/04; 4/28/04; 4/30/04

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

Name: **Electronics and Telecommunications Research Institute**

Internal Address:

Street Address: **11 Gajeong-dong, Yusong-gu**

City: **Daejeon** State: _____ ZIP: _____

Country: **Republic 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: 4/7/04;

A. Patent Application No.(s)

101855258

B. Patent No.(s)

4/28/04;

4/30/04

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**

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit Account Number:

02-2666

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

DO NOT USE THIS SPACE

9. Statement and signature.

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.

06/03/2004 6TOM11 00000006 10655258

01 FC:0021 40.00 DP

Eric S. Hyman

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **3**

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

Mail Stop Assignment Recordation Services
Director of the US Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Docket No. 2013P170

PATENT
REEL: 016230 FRAME: 0162

ASSIGNMENT

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

| | |
|----------------------------|---------------------------|
| (1) <u>CHEUNG, Tae Sik</u> | (6) <u>LEE, Jong Hyun</u> |
| (2) <u>LEE, Jae Wook</u> | (7) _____ |
| (3) <u>CHOI, Woo Young</u> | (8) _____ |
| (4) <u>LEE, Bhum Cheol</u> | (9) _____ |
| (5) <u>KIM, Bong Tae</u> | (10) _____ |

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
DATA TRANSCIVER AND METHOD FOR TRANSCIVING DATA PERFORMING EQUALIZATION
AND PRE-EMPHASIS ADAPTIVE TO TRANSMISSION CHARACTERISTICS OF RECEIVING PART

- (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 Trademarks to issue any and all United States Letters Patents which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application 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 making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED of the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

1) Taesik Cheung
Name: CHEUNG, Tae Sik

Apr. 28, 2004

2) Jae Wook Lee
Name: LEE, Jae Wook

April 7, 2004

3) Woo Young Choi
Name: CHOI, Woo Young

April 7, 2004

4) Bhum Cheol Lee
Name: LEE, Bhum Cheol

April 30, 2004

5)

Blt

Name: KIM, Bong Tae

April. 30, 2004

6)

Lee Jonghyun

Name: LEE, Jong Hyun

April. 30. 2004