

11-24-2003

FORM PTO-1595  
(Rev. 10/02)  
OMD No. 0651-0011 (exp. 6/30/2005)

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11.14.03 PATENT

22278 U.S. PTO  
10/714016



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**Sung Bock KIM; Eundeok SIM; Ki Soo KIM**

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**

City: **Daejeon** State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Country: **Republic of Korea**

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3. Nature of Conveyance:  
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Execution Date: 10/20/03

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: 10/20/03

A. Patent Application No.(s)  
**10714016**

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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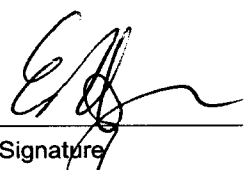
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**PATENT**  
**REEL: 014710 FRAME: 0915**

**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) KIM, Sung Bock (6) \_\_\_\_\_
- (2) SIM, Eundeok (7) \_\_\_\_\_
- (3) KIM, Ki Soo (8) \_\_\_\_\_
- (4) \_\_\_\_\_ (9) \_\_\_\_\_
- (5) \_\_\_\_\_ (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  
**BIDIRECTIONAL TRANSCEIVER AND METHOD FOR DRIVING THE SAME**

- (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:

| <u>INVENTORS</u>  | <u>DATE SIGNED</u>   |
|---|----------------------|
| 1) <u><i>Kim, Sung Bock</i></u><br>Name: KIM, Sung Bock | <u>Oct. 20. 2003</u> |
| 2) <u><i>Sim</i></u><br>Name: SIM, Eundeok              | <u>Oct. 20. 2003</u> |
| 3) <u><i>Kim</i></u><br>Name: KIM, Ki Soo               | <u>Oct. 20. 2003</u> |