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



102331356

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):

Seog-Il Song; Hyun-Seo Oh; Hyung-Yun Kong

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

Name: Electronics and Telecommunications
Research Institute

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

☒ No ☐ Yes

Internal Address: _____

Street Address: 161, Gajeong-Dong,
Yuseong-Gu

3. Nature of Conveyance:

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

City: Daejeon State: _____ ZIP: _____

Country: Korea

Execution Date: 12/18/2002

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: 12/18/02

A. Patent Application No.(s)

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

☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit Account Number:

02-2666

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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

Eric S. Hyman

Signature

12/17/02

Date

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

4

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

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Washington, D.C. 20231

01/07/2003 LUNELLER 00000287 10330800

01 FC:0021

40.00 OP

Docket No. 51876P324

PATENT
REEL: 013626 FRAME: 0143

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged , the undersigned,

SONG, SEOG-ILL ; OH, HYUN-SEO AND KONG, HYUNG-YUN

Hereby sells, assigns, and transfers to:

Electronics and Telecommunications Research Institute

a corporation of Republic of Korea, having a principal place of business at:

161, Gajeong-Dong, Yuseong-Gu, Daejeon, Korea

("Assignee"), and 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 has been executed by the undersigned concurrently herewith,

☐ which was filed _____ and assigned Serial No. _____

and is entitled: **APPARATUS FOR TRANSMITTING AND RECEIVING SIGNAL USING ORTHOGONAL CODES AND NON-BINARY VALUES IN CDMA/OFDM SYSTEM AND METHOD THEREOF**

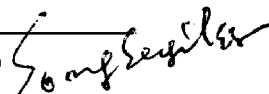
and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

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.

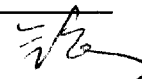
Date: December 18, 2002

Name: SONG, SEOG-ILL



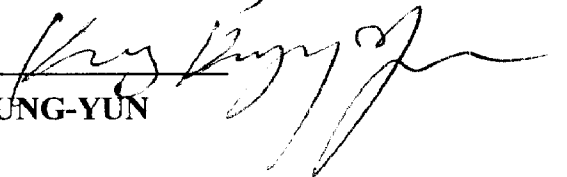
Date: December 18, 2002

Name: OH, HYUN-SEO



Date: December 18, 2002

Name: KONG, HYUNG-YUN



Date: _____, 2002

Name: _____

Date: _____, 2002

Name: _____