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Washington, D.C. 20231

Form PTO-1595

RE

(Rev. 03/01)

U.S. DEPARTMENT OF COMMERCE

U.S. PATENT AND TRADEMARK OFFICE

102326328

To the honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof:

1. Name of Conveying Party(ies):

KO, YOUNG JO

KIM, JUNG IM

12-23-02

2. Name and Address of Receiving Party(ies):

Name: ELECTRONICS and TELECOMMUNICATIONS
RESEARCH INSTITUTE

Street Address: 161 Kajong-dong, Yusong-Gu,

Street Address:

City: Daejon-Shi

State/Country: Korea

Postal Code: 305-350

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ NoAdditional name(s) and addresses attached? ☐ Yes ☒ No

3. Nature of Conveyance:

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

Execution Date: 11182002

4. Application Number(s) or Patent Number(s):

☒ Assignment is being filed together with new application and the first execution date of application is: 12232002☐ Application has been filed already and the application filing date is:

A. Patent Application Number(s):

10,325861

B. Issued Patent Number(s):

Additional numbers attached? ☐ Yes ☒ No

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

CUSTOMER NUMBER 00136 -or-

JACOBSON HOLMAN PLLC
400 Seventh Street, N.W.
Washington, D.C. 20004-2218
Tel. 202-638-6666

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): \$ 40.00

☒ Enclosed☒ Any deficiencies in enclosed fees are authorized to be charged to Deposit Account No. 06-1358.

Attorney Docket Number: P68462US0

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8. 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.

Yoon S. Ham/45,307

December 23, 2002

Name of Person Signing, Reg. No.

Signature

Date

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

-2-

JCH 103-2/02

1000-4800-00000000 10325861

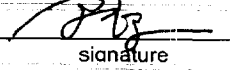
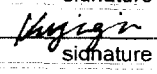
40.00 DP

UNITED STATES OF AMERICA – ASSIGNMENT

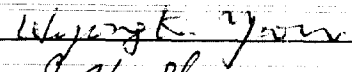
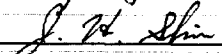
| | | | | |
|--|---|------|---|-----|
| (1-5) | Insert <u>Name(s)</u> of Inventors | (1) | Young Jo KO | and |
| | | (2) | Jung Im KIM | |
| | | (3) | | |
| | | (4) | | |
| | | (5) | | |
| In consideration of the sum of one dollar (\$1.00), and other good and valuable considerations paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to | | | | |
| (6) | Insert <u>Name</u> of Assignee | (6) | ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE | |
| (7) | Insert <u>Address</u> of Assignee | (7) | Of 161 Kajong-dong, Yusong-Gu, Daejeon-Shi, Republic of Korea | |
| (8) | Insert <u>Legal Entity and State or Country</u> (e.g., a corporation or citizen of Korea) | (8) | A(n) Institute of Republic of Korea | |
| (hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention known as | | | | |
| (9) | Insert <u>Identification</u> of Invention, such as Title, Case Number or Foreign Application Number | (9) | CHANNEL ENCODING/DECODING METHOD AND MULTIPLE-ANTENNA COMMUNICATION TRANSMITTING/RECEIVING SYSTEM PERFORMING THE SAME | |
| (10) | Insert <u>Date</u> of signing of Application, or filing date and Serial No., if known | (10) | for which the undersigned has (have) executed an application for patent in the United States of Said application having been executed/filed on December 23, 2002 (and assigned Serial No. New Application) | |

- 1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims provisions of the International Union for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents United States resulting from this application or any continuing or divisional applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute any agreement in conflict herewith.
- 6) Assignor hereby further assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, right to sue for, and collect damages for, any and all acts of past and future infringement.
- 7) The undersigned hereby grant(s) the law firm of Jacobson Holman PLLC, 400 Seventh Street, N.W., Washington, D.C. 20004, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

| | | | | |
|------|-------------------|------------------|-------------|--|
| Date | November 18, 2002 | Name of Inventor | Young Jo KO |  signature (SEAL) |
| | | | typed name | |
| Date | November 18, 2002 | Name of Inventor | Jung Im KIM |  signature (SEAL) |
| | | | typed name | |
| Date | | Name of Inventor | | signature (SEAL) |
| | | | typed name | |
| Date | | Name of Inventor | | signature (SEAL) |
| | | | typed name | |
| Date | | Name of Inventor | | signature (SEAL) |
| | | | typed name | |

This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:

| | | | |
|--|---------|----------------|--|
| <input type="checkbox"/> Additional inventor's names and signatures on a separate sheet. | Witness | Hyong Ku YOON |  signature |
| | Witness | Jung Hyuk SHIN |  signature |

LAW OFFICES OF
JACOBSON HOLMAN
 PROFESSIONAL LIMITED LIABILITY COMPANY
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JH 5/01 (Copying without deletions permitted)