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To the Director of the U.S. Patent and

Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Chang -yeul KWON
Chil-youl YANG
Tae-kon KIM

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

SAMSUNG ELECTRONICS CO., LTD.
416 Mactan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do,
Republic of KoreaAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: December 30, 2004

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

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: December 30, 2004

A. Patent Application No.(s)
Not yet assignedB. Patent No.(s)
Not yet assignedAdditional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

6. Total number of applications and patents involved:

1

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

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PATENT
REEL: 016165 FRAME: 0998

Assignment

Whereas, We, KWON, Chang-yeul, YANG, Chil-youl, KIM, Tac-kon of Seongnam-si, Yongin-si, Seongnam-si, respectively, hereinafter called assignors, have invented certain improvements in METHOD OF COMMUNICATIONS BETWEEN MIMO STATIONS and executed an application for Letters Patent of the United States of America therefor on _____; and

Whereas, SAMSUNG ELECTRONICS CO., LTD., 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

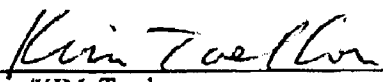
Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number [case_serial_number] and Confirmation number [confirmation_number], filed [case_filing_date]) the application number and filing date of said application when known.

Date: ✓  December 30, 2004
s/KWON, Chang-yeul

Date: ✓  December 30, 2004
s/YANG, Chil-youl

Date: ✓  December 30, 2004
s/KIM, Tae-kon

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)