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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
SAMS06-08105

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

1. Name of conveying party(ies):

Eun-Seok Ko
Tak-Ki Yu
Yung-Soo Kim
Myeon-Kyun Cho

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

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: 416, Maetan-dong, Yeongtong-gu
Suwon-si, Gyeonggi-do

Republic of Korea 442-370

Street Address: Same as above

City: _____ State: _____ Zip: _____

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

3. Nature of conveyance:

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

Execution Date: July 7, 2008, respectively

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: 07/07/08

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Docket Clerk

Internal Address: P.O. Drawer 800889

Dallas, Texas 75380

Street Address: _____

City: _____ State: _____ Zip: _____

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:

50-0208

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9. Signature.

William A. Munck, Registration No. 39,308

Name of Person Signing

Signature

July 9, 2008

Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

DOCKET NO. SP8105-US (SAMS06-08105)

PATENT

ASSIGNMENT

WHEREAS, We, Eun-Seok Ko, resident of Seongnam-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Tak-Ki Yu, resident of Yongin-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Yung-Soo Kim, resident of Seongnam-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, and Myeon-Kyun Cho, resident of Seongnam-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "APPARATUS AND METHOD FOR GENERATING EFFECTIVE SIGNAL TO NOISE RATIO (SNR) PER STREAM IN MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) WIRELESS COMMUNICATION SYSTEM" disclosed in an application for United States Letters Patent (Application No. _____, filed _____), said application having been executed concurrently herewith;

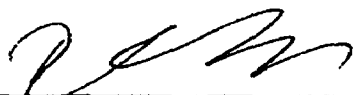
WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-370, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize William A. Munck or John T. Mockler of Munck Carter, P.C. to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

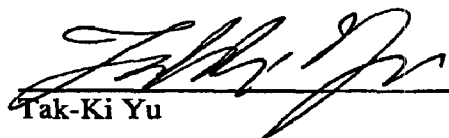
We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.


Date: July 7, 2008


Eun-Seok Ko

Date: July 7, 2008


Tak-Ki Yu

Date: July 7, 2008


Yung-Soo Kim

Date: _____

Myeon-Kyun Cho

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: _____

Eun-Seok Ko

Date: _____

Tak-Ki Yu

Date: _____

Yung-Soo Kim

Date: July 7, 2008



Myeon-Kyun Cho