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To the Director of the U.S. Patent a.

documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

- (1) Noh-Sun Kim
- (2) Hun-Kee Kim
- (3) Gin-Kyu Choi

Execution Date(s) October 15, 2004

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Government Interest Assignment
- ☐ Executive Order 9424, Confirmatory License
- ☐ Other

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: _____

Street Address: 416, Maetan-dong, Yeongtong-gu

City: Suwon-si

State: Gyeonggi-do

Country: Republic of Korea Zip: 442-742

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

4. Application or patent number(s):

A. Patent Application No.(s)
10/855,894

- ☒ This document is being filed together with a new application.
- B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Roylance, Abrams, Berdo & Goodman, L.L.P.

Internal Address: Suite 600

Street Address: 1300 19th Street, NW

City: Washington

State: D.C. Zip: 20036

Phone Number: (202) 659-9076

Fax Number: (202) 659-9344

Email Address: _____

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
- ☐ Authorized to be charged to deposit account
- ☒ Enclosed
- ☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 18-2220

Authorized User Name John E. Holmes

9. Signature:

Signature

October 20, 2004

Date

Peter L. Kendall
Name of Person Signing

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

4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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ASSIGNMENT

WHEREAS, We, Noh-Sun Kim, Hun-Kee Kim and Gin-Kyu Choi, all citizens of the Republic of Korea, residing respectively at, 1160-15, Maetan 3-dong, Paldal-gu, Suwon-si, Gyeonggi-do, Republic of Korea; #406-1006, Sindonga APT., Sadang 2-dong, Dongjak-gu, Seoul, Republic of Korea and #207-604, Hanjin APT., Donam-dong, 609-1, Seongbuk-gu, Seoul, Republic of Korea (hereinafter ASSIGNORS), have made a certain invention entitled **APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING DATA USING A MULTIPLE ANTENNA DIVERSITY SCHEME IN A MOBILE COMMUNICATION SYSTEM**, for which we are making application for Letters Patent of the United States, which application was filed on May 28, 2004 as application Serial No. 10/855,894; and

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (hereinafter ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the aforementioned invention in and for the United States, in and to the aforementioned application, and in and to any and all United States Letters Patent to be obtained on said invention and/or application;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that for good and valuable consideration paid to us by said ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, we, the ASSIGNORS, by these presents do hereby sell, assign, set over and transfer unto the said ASSIGNEE, its successors, legal representatives or assigns, the entire right, title and interest in and to the aforesaid invention in and for the United States; in and to the aforesaid United States application and any divisional, continuing, substitute or reissue applications or supplementary disclosures which may be filed on said invention in the United States, including our right to file said applications and claim priority under the provisions of any international treaty or convention; and any Letters Patent of the United States issued or granted on said invention and/or said applications;

AND WE HEREBY authorize and request the U.S. Patent and Trademark Office to issue any and all patents on said invention and/or said application to said ASSIGNEE as sole assignee;

AND WE HEREBY covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed and will not execute any assignment or other instrument in conflict herewith;

AND WE HEREBY further covenant and agree to communicate to said ASSIGNEE, or its legal representatives, successors or assigns, any facts relating to said invention, including evidence for interference purposes or other proceedings, whenever requested, and to testify in any interference or in any other legal proceeding, when requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective; and to perform the aforesaid communicating, executing and delivering, without any payment except expenses and to perform the aforesaid testifying for reasonable compensation; and generally to do everything possible to aid the said ASSIGNEE, its successors, legal representatives or assigns to obtain and enforce proper patent protection on and for said invention in the United

States, and likewise we make these provisions binding upon our heirs, legal representatives and/or administrators.

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 15th day of October, 2004.



Noh-Sun Kim

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 15th day of October, 2004.



Hun-Kee Kim

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 15th day of October, 2004.



Gm-Kyu Choi



Witness