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J.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Our Ref.: 46268

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

1. Name of conveying party(ies): Kyou-Seung Kim 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:

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other

Street Address: 416, Maetan-dong, Yeongtong-gu Suwon-si, Gyeonggi-do City: Country: Korea Zip: Additional name(s) & address(es) attached? Yes No

Execution Date: January 29, 2004

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: Jan. 29, 2004 A. Patent Application No.(s) 10767206 B. Patent No.(s) Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, LLP Internal Address: Street Address: 1300 19th Street, N.W., Suite 600 City: Washington State: DC Zip: 20036

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: 18-2220 (Attach duplicate copy of this page if paying by deposit account)

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9. 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. Mark W. Hrozenchik (Reg. No. 45,316) Name of Person Signing Signature Date JAN 30 2004

Total number of pages including cover sheet, attachments, and documents: 3

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

02/04/2004 HMARZ11 00000016 10767206 03 FC:8021 40.00 OP

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ASSIGNMENT

WHEREAS, I, Kyou-Seung Kim, a citizen of the Republic of Korea, residing at #926, Byuckjeongol 9-danji Samsung APT., 969-2, Yeongtong-dong, Paldal-gu, Suwon-si, Gyeonggi-do, Republic of Korea (hereinafter ASSIGNOR), have made a certain invention entitled APPARATUS AND METHOD FOR MEASURING AND COMPENSATING DELAY BETWEEN MAIN BASE STATION AND REMOTE BASE STATION INTERCONNECTED BY AN OPTICAL CABLE for which I am making application for Letters Patent of the United States, said application being executed concurrently herewith; 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, Yeontong-gu, Suwon-si, Gyeonggi-do, Korea (hereinafter ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the aforementioned invention and the aforementioned application and 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 me by said ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, by these presents do hereby sell, assign, set over and transfer unto 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; and in, to and under 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; and my right to file said applications and claim priority under the provisions of any international convention or treaty; and any Letters Patent of the United States issued or granted on said invention and/or said applications;

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

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

AND I 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