	
To: Commissioner for Paten. 102691931	Date: March 4, 2004 Attorney Docket No.: 5649-1246
Please record the attached original documents or copy thereof.	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
[1] Woo-Jin Lee 3 - 4 - 0 4 [2] Kyu-Hyoun Kim	Samsung Electronics Co., Ltd. 416, Maetan-dong Yeongtong-gu, Suwon-si Gyeonggi-do, Republic of Korea,
Additional name(s) of conveying party(ies) attached? Yes No	45 17 18 18 19 19 19 19 19 19 19 19
3. Nature of conveyance:	1001
X Assignment Merger Security Agreement Change of Name Other Execution Date:	
[1] February 23, 2004 [2] February 23, 2004	Additional name(s) & address(es) attached? Yes _X_ No
4. Application Serial NoPatent No \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Additional numbers attached? Yes _X_ No	
5. Name and address of party to whom correspondence concerning document should be mailed: USPTO Customer No. 20792 Elizabeth A. Stanek Myers Bigel Sibley & Sajovec P. O. Box 37428	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$40.00 X Enclosed Authorized to be charged to deposit account
Raleigh NC 27627	8. Deposit account number: 50-0220
DO NOT USE THIS SPACE	
9. Statement and signature To the best of my knowledge and belief, the foregoing information of the original document. Elizabeth A. Stanek Registration No. 48,568 Name of Person Signing	Signature March 4, 2004 Date
CERTIFICATE OF EXPRESS MAILING Express Mail Label No.: EV381443441US Date of Deposit: 03/04/2004 I hereby certify that this correspondence is being deposited with the United States	Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § CATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT **REEL: 015053 FRAME: 0790**

ASSIGNMENT

THIS ASSIGNMENT, made by us, **Woo-Jin Lee**, citizen of the Republic of Korea, residing at 121-1604 Hanjin APT., Haengdang-dong, Seongdong-gu, Seoul, Republic of Korea; and **Kyu-Hyoun Kim**, citizen of the Republic of Korea, residing at 811-606 Hansin APT., Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in INTEGRATED CIRCUIT DEVICES HAVING IMPROVED DUTY CYCLE CORRECTION AND METHODS OF OPERATING THE SAME, for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. _______, filed _______) the application number and the filing date of said application when known or to file this Assignment concurrently with the application; and

WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation having a principal place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

REEL: 015053 FRAME: 0791

Date:_____

RECORDED: 03/04/2004