

05-30-2003

ASSIGNMENT RECORD



Patents Only

102460890

To the Honorable Commissioner of Patents and Trademarks:

Date: May 21, 2003
Attorney Docket No. 5649-1091

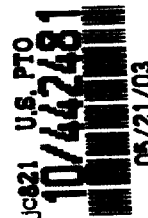
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

5.21.03

Kyu-hyun Lee
Tae-young Chung
Chang-hyun Cho
Yang-keun Park
Sang-bum Kim

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

Samsung Electronics Co., Ltd.
416 Maetan-dong, Paldal-gu
Suwon-City, Kyungki-do
REPUBLIC OF KOREA

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

3. Nature of conveyance:

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

Execution Date: May 9, 2003

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

4. Application Serial No. Patent No. 10442481

If this document is being filed together with a new application, the execution date of the application is: May 9, 2003

Additional numbers attached? Yes No

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

D. Scott Moore
Myers Bigel Sibley & Sajovec
P. O. Box 37428
Raleigh NC 276276. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$40.00
☒ X Enclosed
☐ Authorized to be charged to deposit account

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 is true and correct and any attached copy is a true copy of the original document.*D. Scott Moore, #42,011
Name of Person Signing

Signature

May 21, 2003
DateTotal number of pages including cover sheet, attachments and document: 3

05/23/2003 IMEKONEN 00000009 10442481

U.S. PTO

05/21/03

PATENT
REEL: 014106 FRAME: 0605

ASSIGNMENT

THIS ASSIGNMENT, made by us, **Kyu-hyun Lee**, citizen of the Republic of Korea, residing at 205-303, Shinyoungtong Hyundai Apt., 868, Banwol-ri, Taeon-eub, Hwaseong-gun, Kyungki-do, Republic of Korea; **Tae-young Chung**, citizen of the Republic of Korea, residing at 512-801 Samsung 5cha Racmian Apt., Jinsan Maeul, 1161, Bojeong-ri, Guseong-myun, Yongin-city, Kyungki-do, Republic of Korea; **Chang-hyun Cho**, citizen of the Republic of Korea, residing at 120-1303, Ssangyoung Apt., Minsok Maeul, Bora-ri, Kiheung-eub, Yongin-city, Kyungki-do, Republic of Korea; **Yang-keun Park**, citizen of the Republic of Korea, residing at 101-506, Hansung Apt., 380, Gugal-ri, Kiheung-eub, Yongin-city, Kyungki-do, Republic of Korea; and **Sang-bum Kim**, citizen of the Republic of Korea, residing at 802-1805, Doosan Apt., 973-3, Youngtong-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **METHODS OF FORMING INTEGRATED CIRCUIT MEMORY DEVICES THAT INCLUDE A PLURALITY OF LANDING PAD HOLES THAT ARE ARRANGED IN A STAGGERED PATTERN AND INTEGRATED CIRCUIT MEMORY DEVICES FORMED THEREBY**, 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 filing date and application number 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, Paldal-gu, Suwon-city, 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.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 9th day of May, 2003.

KYU-HYUN LEE (SEAL)
Kyu-hyun Lee

Tae Young Chung (SEAL)
Tae-young Chung

Changhyun Cho (SEAL)
Chang-hyun Cho

Yang Keun Park (SEAL)
Yang-keun Park

Sang-bum Kim (SEAL)
Sang-bum Kim

Witnessed by:

Date: _____