

ASSIGNMENT RECORDATION OF

09-10-2003



102545580

y

To: Commissioner for Patents:

Date: August 28, 2003
Attorney Docket No. 5649-1139

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

A. Sung-hoon Kim

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

Samsung Electronics Co., Ltd.
416 Maetan-dong
Paldal-ku, Suwon
Kyunggi-do, Republic of Korea

09/03/2003 DTESSEM1 00000035 10651181

04 FC:0021

40.00 DP

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

Additional name(s) of conveying party(ies) attached? Yes 1 No

3. Nature of conveyance:

- Assignment
- Merger
- Security Agreement
- Change of Name
- Other

Execution Date: A. August 11, 2003

4. Application Serial No. _____ Patent No. 10/651181

If this document is being filed together with a new application, the execution date of the application is: August 28, 2003

Additional numbers attached? ___ Yes ___ x No

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

Scott C. Hatfield, Esq.
Myers Bigel Sibley & Sajovec
P. O. Box 37428
Raleigh NC 27627

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: 50-0220

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.

Scott C. Hatfield, Reg. No. 38,176

Name of Person Signing

Signature

08/28/03

Date

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

CERTIFICATE OF MAILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on August 28, 2003.

Joyce Paoli

22388 U.S. PTO

10/651181

08/29/03

ASSIGNMENT

THIS ASSIGNMENT, made by me, **Sung-hoon Kim**, a citizen of the Republic of Korea, residing at 101-304, Shibeom danji Samsung Apt., Seohyun-dong, Bundang-gu, Sungnam-city, Kyungki-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, I am the sole inventor of certain new and useful improvements in INTEGRATED CIRCUIT DEVICES INCLUDING INPUT/OUTPUT LINE PAIRS AND PRECHARGE CIRCUITS AND RELATED MEMORY DEVICES for which an application has been filed, or is being concurrently filed, in the United States Patent and Trademark Office. I 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-ku, Suwon, Kyunggi-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, I 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 me if this assignment and

sale had not been made.

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

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

I further covenant and agree to communicate to said assignee or its representatives any facts known to me 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 I hereby instruct, and further covenant and agree to bind my heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 11th day of August, 2003.

Sung-Hoon Kim (SEAL)
SUNG-HOON KIM

Witness

