

2-9-07

03-06-2007

U.S. PTO  
11/704740  
02/09/2007

ASSIGNMENT RECORD.



Patents Only

To: Commissioner for Patents:

103378248

Date: February 9, 2007  
Attorney Docket No. 5649-1980

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- [1.] JONG-HYUN CHOI
- [2.] KYU-CHAN LEE
- [3.] SUNG-MIN YIM
- [4.] DONG-HAK SHIN

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

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

Samsung Electronics Co., Ltd.  
416 Maetan-dong, Yeongtong-gu  
Suwon-si, Gyeonggi-do  
Republic of Korea

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

3. Nature of conveyance:

Execution Date(s)

- [1.] January 5, 2007 [2.] January 5, 2007
- [3.] January 5, 2007 [4.] January 5, 2007

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmation License
- Other

4. Application Serial No. \_\_\_\_\_ Patent No. \_\_\_\_\_

If this document is being filed together with a new application, the execution date of the application is: January 5, 2007

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 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.

D. Scott Moore (Reg. No. 42,011)

Name of Person Signing

Signature

February 9, 2007

Date

Total number of pages including cover sheet, attachments and document: 4

CERTIFICATE OF EXPRESS MAILING

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Amelia Tauchen  
Amelia Tauchen

02/13/2007 DEHMANU1 00000078 11704740

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PATENT  
REEL: 018985 FRAME: 0015

**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **JONG-HYUN CHOI**, a citizen of the Republic of Korea, residing at 102-1604, Dongsuwon LG Village, Mangpo-dong, Paldal-gu, Suwon-si, Gyeonggi-do, Republic of Korea; and **KYU-CHAN LEE**, a citizen of the Republic of Korea, residing at 502-811, Samik Green Apt., Myeongil 1-dong, Gangdong-gu, Seoul, Republic of Korea; **SUNG-MIN YIM**, a citizen of the Republic of Korea, residing at 103-907, Dongsuwon LG village, Mangpo-dong, Paldal-gu, Suwon-si, Gyeonggi-do, Republic of Korea; and **DONG-HAK SHIN**, a citizen of the Republic of Korea, residing at 204-1301, Woonam First Ville 2cha Apt., Taean-eup, Hwaseong-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **DRIVER CIRCUITS FOR INTEGRATED CIRCUIT DEVICES THAT ARE OPERABLE TO REDUCE GATE INDUCED DRAIN LEAKAGE (GIDL) CURRENT IN A TRANSISTOR 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 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, 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 thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the

**ASSIGNMENT - CONTINUED**

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 bind our heirs, legal representatives and assigns, promptly to 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.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 5<sup>th</sup> day of Jan., 2007.

Choi Jong Hyun (SEAL)  
**JONG-HYUN CHOI**

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 5<sup>th</sup> day of Jan, 2002.

Kyu Chan Lee (SEAL)  
Kyu Chan Lee

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 5<sup>th</sup> day of Jan, 2002.

Sungmin Yim (SEAL)  
Sung-Min Yim

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 5<sup>th</sup> day of Jan, 2002.

Donghak Shin (SEAL)  
Dong-Hak Shin

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_