

ASSIGNMENT RECORD

02-26-2004

Patents Only

To the Honorable Commissioner c



Date: February 17, 2004  
Attorney Docket No. 5649-1191

Please record the attached original documents of 102678457

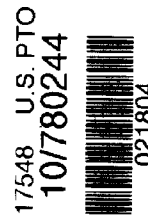
1. Name of conveying party(ies):

- [1] Seong-Jun Heo
- [2] Sun-Pil Youn
- [3] Sung-Man Kim
- [4] Si-Young Choi
- [5] Gil-Hyun Choi
- [6] Ja-Hum Ku
- [7] Chang-Won Lee
- [8] Jong-Myeong Lee
- [9] Kwon-Sun Ryu

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, Paldal-gu  
Suwon-city, Kyungki-do  
REPUBLIC OF KOREA



3. Nature of conveyance:

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

Execution Date: [1] October 31, 2003; [2] October 31, 2003; [3] October 31, 2003; [4] October 31, 2003; [5] October 31, 2003; [6] October 31, 2003; [7] October 31, 2003; [8] October 31, 2003; [9] October 31, 2003;

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

4. Application Serial No. Patent No. 10780244

If this document is being filed together with a new application, the execution date of the application is: February 17, 2004

Additional numbers attached? Yes ☒ No

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

Julie H. Richardson  
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

02/23/2004 HLE333 00000066 10780244

03 FC:8021

40.00 OF

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.

Julie H. Richardson Reg. #40,142  
Name of Person Signing

Signature

02/17/04  
Date

Total number of pages including cover sheet, attachments and document: 12

CERTIFICATE OF EXPRESS MAILING

Express Mail Label No. EV 353611458 US

Date of Deposit: February 17, 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 § 1.10 on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Rosa Lee Brinson

PATENT  
REEL: 015004 FRAME: 0365

**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **Seong-Jun Heo**, citizen of the Republic of Korea, residing at 3F. 71-1 Bangi-dong, Songpa-gu, Seoul, Republic of Korea; **Sun-Pil Youn**, citizen of the Republic of Korea, residing at 746-1 Sinrimll-dong, Gwanak-gu, Seoul, Republic of Korea; **Sung-Man Kim**, citizen of the Republic of Korea, residing at 301 Ho, 618-1 Il-dong, Sanglok-gu, Ansan-si, Gyeonggi-do, Republic of Korea; **Si-Young Choi**, citizen of the Republic of Korea, residing at 419-903 Hyundai APT., 92 Seohyeon-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; **Gil-Heyun Choi**, citizen of the Republic of Korea, residing at 104-101 Donga Solresiti APT., Haengwon-maeul, Bojeong-ri, Guseong-myeon, Yongin-si, Gyeonggi-do, Republic of Korea; **Ja-Hum Ku**, citizen of the Republic of Korea, residing at 1004-1401 Geonyeong APT., Mujigae-maeul, Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; **Chang-Won Lee**, citizen of the Republic of Korea, residing at 701-304 Jugong APT., 3 Byeolyang-dong, Gwacheon-si, Gyeonggi-do, Republic of Korea; **Jong-Myeong Lee**, citizen of the Republic of Korea, residing at 414-102 Sambu APT., Saetbyeol-maeul, Bundang-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; and **Kwon-Sun Ryu**, citizen of the Republic of Korea, residing at 536-11 Guun-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements as described in **METHODS OF FORMING A SEMICONDUCTOR DEVICE HAVING A METAL GATE ELECTRODE AND ASSOCIATED DEVICES**, 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 and/or for which a related priority application may have been previously filed in a foreign patent office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No.

\_\_\_\_\_, filed \_\_\_\_\_) the application number and 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, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention(s) as described in said application(s), 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(s) and application(s), and in and to any and all applications for which said application claims the benefit of priority, as well as to 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 term and/or extensions or adjustments therefor, for which said Letters Patent may be granted, together with the right to claim the priority of said application(s) 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(s) and application(s) 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(s), to testify in any interference or legal proceedings involving said invention(s), 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(s) in all countries and to vest in the assignee complete title to the said invention(s) and Letters Patent(s), without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, we have hereunto set our hand and seal on this 31th  
day of Oct., 2003.

Seong-Jun Heo  
**Seong-Jun Heo**

Witnessed by:

\_\_\_\_\_

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

Witnessed by:

\_\_\_\_\_

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

Sun-Pil Youn  
**Sun-Pil Youn**

Witnessed by:

\_\_\_\_\_

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

Witnessed by:

\_\_\_\_\_

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

Sung-man Kim  
**Sung-Man Kim**

Witnessed by:

\_\_\_\_\_

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

Witnessed by:

\_\_\_\_\_

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

Siyoung Choi  
**Si-Young Choi**

Witnessed by:

\_\_\_\_\_

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

Witnessed by:

\_\_\_\_\_

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

Gil Heyun Choi  
**Gil-Heyun Choi**

Witnessed by:

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

Witnessed by:

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



Ja-Hum Ku

**Ja-Hum Ku**

Witnessed by:

\_\_\_\_\_

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

Witnessed by:

\_\_\_\_\_

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

*Chang-Won Lee*

**Chang-Won Lee**

Witnessed by:

\_\_\_\_\_

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

Witnessed by:

\_\_\_\_\_

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

Jong Myeong Lee  
**Jong-Myeong Lee**

Witnessed by:

\_\_\_\_\_

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

Witnessed by:

\_\_\_\_\_

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

Kwon-Sun Ryu  
**Kwon-Sun Ryu**

Witnessed by:

\_\_\_\_\_

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

Witnessed by:

\_\_\_\_\_

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