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ASSIGNMENT RECORDATION FORM COVER SHEET

Patents Only

02-14-2006

To: Commissioner for Patents:



Date: February 6, 2006  
Attorney Docket No. 7649-15

Please record the attached original document

103177912

1. Name of conveying party(ies):

- [1.] Kyoung Woo Lee
- [2.] Seung-Man Choi
- [3.] Ja-Hum Ku
- [4.] Ki-Chul Park

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) of conveying party(ies) attached? Yes ☒ No

3. Nature of conveyance:

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

Execution Date: [1.] January 30, 2006 [2] January 30, 2006  
[3.] January 30, 2006 [4.] January 30, 2006

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

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

If this document is being filed together with a new application, the execution date of the application is: [1.] January 30, 2006 [2] January 30, 2006 [3.] January 30, 2006 [4.] January 30, 2006

Additional numbers attached? Yes ☒ No

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

Grant J. Scott  
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.

Grant J. Scott #36,925

Name of Person Signing Signature

February 6, 2006

Date

Total number of pages including cover sheet, attachments and document: 6

CERTIFICATE OF EXPRESS MAILING

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Candi L. Riggs

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PATENT  
REEL: 017548 FRAME: 0439

**ASSIGNMENT**

THIS ASSIGNMENT, made by me, **Kyoung Woo Lee**, a citizen of the Republic of Korea, residing at 718 Jefferson Boulevard, Fishkill, New York 12524, USA; **Seung-Man Choi**, a citizen of the Republic of Korea, residing at 1306 Max Way, Fishkill, New York 12524, USA; **Ja-Hum Ku**, a citizen of the Republic of Korea, residing at #603-1003, Parkview Apt., Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; and **Ki-Chul Park**, a citizen of the Republic of Korea, residing at 1002 Jefferson Blvd., Fishkill, New York 12524, USA;

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in **METHODS OF FORMING DUAL-DAMASCENE INTERCONNECT STRUCTURES ON SEMICONDUCTOR SUBSTRATES USING MULTIPLE PLANARIZATION LAYERS HAVING DIFFERENT POROSITY CHARACTERISTICS** for which an application has been filed, or is being concurrently filed, 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 or other

**ASSIGNMENT - CONTINUED**

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 30th day of January, 2006.

Kyoung Woo Lee (SEAL)  
**Kyoung Woo Lee**

Witnessed by:

\_\_\_\_\_

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

**ASSIGNMENT - CONTINUED**

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 30<sup>th</sup> day  
of January, 2006

Seung-Man Choi (SEAL)  
**Seung-Man Choi**

Witnessed by:

\_\_\_\_\_

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

**ASSIGNMENT - CONTINUED**

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 30<sup>th</sup> day  
of Jan., 2006.

JA-HUM KU (SEAL)  
**Ja-Hum Ku**

Witnessed by:

\_\_\_\_\_

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

**ASSIGNMENT - CONTINUED**

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 30th day  
of January, 2006

Nichul Park (SEAL)  
**Ki-Chul Park**

Witnessed by:

\_\_\_\_\_

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