

ASSIGNMENT RECORDATION

03-13-2007

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U.S. PTO
11/709400
02/22/2007

To: Commissioner for Patents:

Date: February 22, 2007
Attorney Docket No. 5649-2099

103381853

Please record the attached original document or copy thereof.

1. Name of conveying party(ies):

- [1.] Jin-Man Kim
- [2.] Yun-Sik Yang
- [3.] Young-Min Min
- [4.] Sang-Ho Kim

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

3. Nature of conveyance:

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

Execution Date: [1.] February 12, 2007 [2.] February 12, 2007
[3.] February 12, 2007 [4.] February 12, 2007

4. Application Serial No. _____

If this document is being filed together with a new application, the execution date of the application is:
[1.] February 12, 2007 [2.] February 12, 2007 [3.] February 12, 2007 [4.] February 12, 2007

Additional numbers attached? ___ Yes X No

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

Needham James Boddie, II
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
X Authorized to be charged to deposit account

8. Deposit account number: 50-0220

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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.

Needham James Boddie, II, Reg. No. 40,519
Name of Person Signing

NJBoddie II
Signature

February 22, 2007
Date

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

CERTIFICATE OF EXPRESS MAILING

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I hereby certify that this paper or fee 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Erin C. Dutton
Erin C. Dutton

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ASSIGNMENT

THIS ASSIGNMENT, made by us, **Jin-Man Kim**, a citizen of the Republic of Korea, residing at SK Apt. 107-1405, Seocheon-ri, Giheung-eup, Yongin-si, Gyeonggi-do 449-906, Republic of Korea; **Yun-Sik Yang**, a citizen of the Republic of Korea, residing at Dongsuwon LG Village 110-603, Mangpo-dong, Paldal-gu, Suwon-si, Gyeonggi-do 442-706, Republic of Korea; **Young-Min Min**, a citizen of the Republic of Korea, residing at Woonam First Ville 2-cha 204-1902, Byeongjeom-dong, Hwaseong-si, Gyeonggi-do 445-360, Republic of Korea; and **Sang-Ho Kim**, a citizen of the Republic of Korea, residing at Geumhwa Maeul Jugong Apt. 306-1304, Sanggal-dong, Giheung-eup, Yongin-si, Gyeonggi-do 449-956, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **SEMICONDUCTOR ETCHING APPARATUS**, 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 priority of said application in all foreign countries in accordance with the International Convention, the

ASSIGNMENT -- CONTINUED

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, we have hereunto set our hands and seals on this 12
day of 02, 2007.

Jim-Man-Kim
Jim-Man Kim

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 12
day of 02, 2007.

San-Sik Yang
Yun-Sik Yang

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 12
day of 02, 2007.

Young-Min Min
Young-Min Min

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 12
day of 02, 2007.

Sang-Ho Kim
Sang-Ho Kim