

12-30-2005



Date: December 19, 2005  
Attorney Docket No. 5649-1662

103147653

To: Commissioner for Patents:

Please record the attached original documents

1. Name of conveying party(ies):

[1.] Chan Hwang  
[2.] Suk-Joo Lee  
[3.] Han-Ku Cho  
[4.] Sang-Gyun Woo

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

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

112975 U.S. PTO  
11/31/109  
121905

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.] December 7, 2005 [2.] November 17, 2005 [3.] November 21, 2005 [4.] December 7, 2005

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.] December 7, 2005 [2.] November 17, 2005 [3.] November 21, 2005 [4.] December 7, 2005

Additional numbers attached? ☐ Yes ☒ No

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

David D. Beatty  
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

12/22/2005 WASFAW1 00000154 11311109

06 FC:8021 40.00 DP  
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.

David D. Beatty #38,071

Name of Person Signing

Signature

December 19, 2005

Date

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

CERTIFICATE OF EXPRESS MAILING

Express Mail Label No. EV 769241314 US

Date of Deposit: December 19, 2005

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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Katie Wu

**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **Chan Hwang**, citizen of the Republic of Korea, residing at #6-903, Mujigae Apt., Seocho2-dong, Seocho-gu, Seoul, Republic of Korea; **Suk-Joo Lee**, citizen of the Republic of Korea, residing at #102-402, Geonyeong Apt., Pungdeokcheon 1-dong, Yongin-si, Gyeonggi-do, Republic of Korea; **Han-Ku Cho**, citizen of the Republic of Korea, residing at #113-705, Parktown, 52 Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; and **Sang-Gyun Woo**, citizen of the Republic of Korea, residing at #523-1704, Samsung 5cha Apt., Pungdeokcheon 2-dong, Yongin-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **OPTICAL MASKS AND METHODS FOR MEASURING ABERRATION OF A BEAM** 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 same to be held and enjoyed by said assignee, its successors and assigns, as

**ASSIGNMENT – CONTINUED**

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 7<sup>th</sup>  
day of December, 2005

Chan Hwang  
**Chan Hwang**

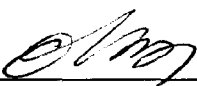
Witnessed by:

\_\_\_\_\_  
Print Name

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

**ASSIGNMENT – CONTINUED**

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 17<sup>th</sup>  
day of November, 2005

  
\_\_\_\_\_  
**Suk-Joo Lee**

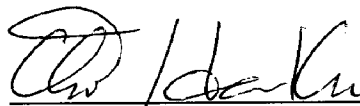
Witnessed by:

\_\_\_\_\_  
Print Name

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

**ASSIGNMENT – CONTINUED**

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 21<sup>st</sup>  
day of Nov, 2005

  
\_\_\_\_\_  
**Han-Ku Cho**

Witnessed by:

\_\_\_\_\_  
Print Name

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

**ASSIGNMENT – CONTINUED**

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 7<sup>th</sup>  
day of December, 2005

Sang-Gyun Woo  
Sang-Gyun Woo

Witnessed by:

\_\_\_\_\_  
Print Name

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