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U.S. DEPARTMENT OF COMMERCE
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103369891

attached original documents or copy thereof.

Tab settings To the Director of the United States Pat

1. Name of conveying party(ies):

Ji-young LEE
Hak-sun LEE
Myeong-cheol KIM
Kyung-yub JEON

Additional names(s) of conveying party(ies) Yes No

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

Name: Samsung Electronics Co., Ltd.
Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si

119260 U.S. PTO
11/699476

013007

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: January 23, 2007

City: Gyeonggi-do State/Prov.:

Country: Republic of Korea ZIP:

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

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: January 23, 2007

Patent Application No.	Filing date	B. Patent No.(s)
NEW	January 30, 2007	

Additional numbers Yes No

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

Name: STEPHEN R. WHITT
Registration No. 34,753
Address: VOLENTINE & WHITT, PLLC
ONE FREEDOM SQUARE
11951 FREEDOM DRIVE, SUITE 1260

City: RESTON State/Prov.: VA

Country: USA ZIP: 20190

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

- Enclosed - Any excess or insufficiency should be credited or debited to deposit account
- Authorized to be charged to deposit account

8. Deposit account number: 50-0238

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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 copies are true copy of the original document.

STEPHEN R. WHITT
Name of Person Signing

Signature

January 30, 2007

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

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

**Insert
Name(s) of
Inventor(s)**

- | | |
|----------------------------|-----------|
| 1. <u>Ji-young LEE</u> | 7. _____ |
| 2. <u>Hak-sun LEE</u> | 8. _____ |
| 3. <u>Myeong-cheol KIM</u> | 9. _____ |
| 4. <u>Kyung-yub JEON</u> | 10. _____ |

**Insert
Name(s) of
Assignee(s) &**

the undersigned hereby sell(s) and assign(s) to

Address(es)

_____ SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-dong, Yeongtong-gu,
of _____ Suwon-si, Gyeonggi-do, Republic of Korea

**Title of
Invention**

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

_____ METHOD OF FORMING PATTERN USING FINE PITCH HARD MASK

**Date of
Signing of
Application**

for which an application for patent in the United States of America has been executed by

the undersigned on January 23, 2007

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby grant(s) the practitioners associated with the CUSTOMER NUMBER 20987 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Jan. 23, 2007 Signature of Inventor Ji-young Lee
Ji-young LEE

Date Jan. 23, 2007 Signature of Inventor [Signature]
Ji-young LEE

Date Jan. 23, 2007 Signature of Inventor Myeong-Chul Kim
Myeong-Chul KIM

Date _____ Signature of Inventor _____
kyung-yub JEON

Date Jan. 23, 2007 Signature of Inventor [Signature]

Date _____ Signature of Inventor _____

(Note regarding Witnessing: It is recommended that the execution by the inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)

Witness _____

Witness _____

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Applicant Reference No. SS-24613-US-CIP