

10-19-2005

T MGW Ref: 61920480US



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To the Director of the U.S. Patents a.

Documents or the new address(es) below.

1. Name of conveying party(ies):

Yoon-Sung UM; Jae-Jin LYU; Chang-Hun LEE;
Mee-Hye JUNG

Additional name of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address:

Street Address: 416, Maetan-dong, Yeongtong-gu

City: Suwon-si, Gyeonggi-do

State:

Country: The Republic of KOREA

Zip:

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

3. Nature of conveyance:

Execution Date(s) September 30, 2005; September 30, 2005; September 30, 2005; September 30, 2005

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other

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

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/175,254, filed July 7, 2005

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

Name: Hae-Chan Park

Internal Address

Street Address: McGuireWoods LLP

1750 Tysons Boulevard - Suite 1800

City: McLean

State: Virginia

Zip: 22102

Phone Number: 703-712-5000

Fax Number: 703-712-5280

Email Address:

6. Total number of applications and patents involved: one (1)

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☐ Authorized to be charged by credit card

☐ Authorized to be charged to deposit account

☒ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card

Last 4 Numbers

Expiration Date

b. Deposit Account Number 23-1951

Authorized User Name McGuireWoods LLP

9. Signature :

Signature

October 13, 2005

Date

Hae-Chan Park, Reg. No. 50,114

Total number of pages including cover sheet, attachments, and documents

Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 017092 FRAME: 0364

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ASSIGNMENT

Whereas, Assignor has invented certain new and useful processes, machines, articles of manufacture, compositions of matter, and/or improvements thereof ("Invention") disclosed in

☒ an application for United States Letters Patent entitled :

**ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF AND DISPLAY
DEVICE HAVING THE SAME** ("Application");

☐ upon which United States Letters Patent, Patent Number _____, has issued ("Patent");

Whereas, Assignor desires to convey all rights, title and interests in and to the same to Samsung Electronics Co., Ltd. ("Assignee"), with offices located at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea

Now, for valuable consideration by Assignee to Assignor, the receipt of which is hereby acknowledged, and for other good and valuable consideration, Assignee and Assignor hereby agree as follows:

Assignor hereby conveys, assigns, sells and transfers to Assignee all rights, title and interests in and to the Invention disclosed in said application and in and to any Letters Patent of the United States, , any continuation, division, renewal, or substitute thereof, and hereby grant to Assignee the right to apply in its own name for patents or inventor's certificates and related rights heretofore or hereafter filed for the Invention in any and all countries, including (without limitation) all rights to claim priority based thereon, all patents granted thereon and all reissues, extensions and renewals thereof.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignor further covenants that Assignee will, upon Assignee's request, be provided promptly with all pertinent facts and documents relating to the Invention, Patent, Application and any patents granted thereon, as may be known and accessible to Assignor, and Assignor will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Application, Patent, Invention, whether in the U..S. or any and all foreign countries and any patents granted thereon and/or for obtaining any reissue or reissues of any patent which may be granted for the invention and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as the Assignee thereof shall hereafter require and prepare at assignee's expense..

IN WITNESS WHEREOF, Assignor has hereunto set hand and seal.

Assignor:

Signature: *Yoon-Sung*

Print

Name: UM, Yoon-Sung

Address: Ssangyong Apt. 216-1702, Sanghyeon-ri, Sooji-eup, Yongin-si, Gyeonggi-do, Korea

Date: september 30, 2005

Assignor:

Signature: LYU, JAZ - JIN

Print
Name: LYU, Jae-Jin

Address: 692, Yangbeol 1-ri, Opo-myeon, Gwangju-gun, Gyeonggi-do, Korea

Date: september 30, 2005

Assignor:

Signature: lee changhun

Print
Name: LEE, Chang-Hun

Address: Yehyun Maeul Hyundai Home Town 104-1205, 705, Seocheon-ri, Giheung-eup, Yongin-si, Gyeonggi-do, Korea

Date: september 30, 2005

Assignor:

Signature: JUNG, Mee-Hye

Print
Name: JUNG, Mee-Hye

Address: Hyundai Town Apt. 105-1101, Banwol-ri, Taeon-eup, Hwasung-si, Gyeonggi-do, Korea

Date: september 30, 2005