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DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name of conveying parties:

PARK, Tae-Hyeong  
PARK, Joon-Ha  
LEE, So-Hyun

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party:

Name: SAMSUNG ELECTRONICS CO. LTD.  
Address: 416, Maetan-dong, Yeongtong-gu Suwon-si,  
Gyeonggi-do, Korea

Additional name(s) of receiving party(ies) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: September 5, 2007

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

If this document is being filed together with a new application, the execution date of the application is: September 5, 2007

A. Patent Application No.(s)

Title: INCREASING LCD APERTURE RATIOS

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Don C. Lawrence  
Internal Address: MACPHERSON, KWOK CHEN & HEID LLP  
Street Address: 2033 Gateway Place, Suite 400  
City San Jose State CA Zip 95110

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

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

☒ Authorized to be charged to Deposit Account No. 50-2257.  
☒ Charge Deposit Account No. 50-2257 for any additional fees required for this conveyance and credit Deposit Account No. 50-2257 any amounts overpaid

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8. 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.

Hugh H. Matsubayashi, Reg. No. 43,779  
Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

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PATENT  
REEL: 020115 FRAME: 0057

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we

PARK, Tae-Hyeong	of	705-902 SSangyong 1-cha apt., Manhyeonmaeul, Sanghyeon 2-dong, Suji-gu, Yongin-si, Gyeonggi-do, Korea
PARK, Joon-Ha	of	102-807 Hyundai apt., 92-1, Gaegeum-dong, Busanjin-gu, Busan, Korea
Lee, So-Hyun	of	San24bunji, Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

hereby sell, assign and transfer to SAMSUNG ELECTRONICS CO., LTD., a corporation, having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, its successors and assigns, the entire right, title and interest throughout the world in our invention in

**INCREASING LCD APERTURE RATIOS**

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 5th day of September, 2007.

PARK, Tae-Hyeong  
PARK, Tae-Hyeong

WITNESSED:

Signature



Date:

Sep. 5, 2007

KIM Yu-Mi

-Page 1 of 2-

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PATENT

REEL: 020115 FRAME: 0058

Executed this 5th day of September, 2007.

PARK Joon-Ha

PARK, Joon-Ha

WITNESSED:

Signature

Kim Young - Ju

Date:

Sep. 5, 2007

KIM Young-Ju

Executed this 5th day of September, 2007.

Lee, So-Hyun

Lee, So-Hyun

WITNESSED:

Signature

[Signature]

Date:

Sep. 5, 2007

PARK Mi-Young