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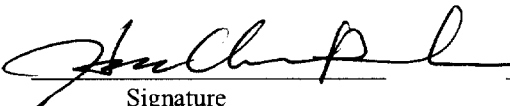


FORM PTO-1595  
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RECORDATION FORM COVER SHEET  
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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
Docket No.: 6192.0290.AA

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): <b>Jung-Hee LEE; Yoon-Sung UM; Jong-Ho SON; Jae-Jin LYU</b></p> <p>Additional names of conveying party(ies) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p> <p>3. Nature of Conveyance <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <b>April 18, 2003</b></p>	<p>2. Name and address of receiving party(ies): Name: <b>Samsung Electronics Co., Ltd.</b> Internal Address: Street Address: <b>416, Maetan-dong, Paldal-ku</b> City: <b>Suwon-city, Kyunggi-do</b> State or Country: <b>The Republic of KOREA</b></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
<p>4. Application number(s) or patent number(s): <b>10445849</b> Title: <b>LIQUID CRYSTAL DISPLAY AND THIN FILM TRANSISTOR ARRAY PANEL THEREFOR</b></p> <p>If this document is being filed together with a new application, the execution date of the application is <b>April 25, 2003</b></p> <p>A. Patent Application No(s). _____ filed on _____</p> <p>B. Patent No(s). _____</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed: <b>Hae-Chan Park, Esq. McGuireWoods LLP 1750 Tysons Boulevard, Suite 1800 McLean, Virginia 22102</b></p>	<p>6. Total number of applications and patents involved: <b>1</b></p> <p>7. Total fee (37 CFR 3.41): <b>\$40.00</b></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Total fee due <input checked="" type="checkbox"/> Any deficiencies in the enclosed fees</p> <p>8. Deposit account number: <b>23-1951</b></p>
<p>9. Statement and signature</p> <p>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.</p> <p><b>Hae-Chan Park, Reg. No. 50,114</b> Name of Person Signing</p> <p> Signature</p> <p><b>May 28, 2003</b> Date</p>	

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PATENT  
REEL: 014123 FRAME: 0070

# ASSIGNMENT OF INVENTION

WHEREAS, WE, LEE, Jung-Hee; UM, Yoon-Sung; SON, Jong-Ho and LYU, Jae-Jin have invented certain new and useful improvements in LIQUID CRYSTAL DISPLAY AND THIN FILM TRANSISTOR ARRAY PANEL THEREFOR for which a patent application has been executed.

AND WHEREAS, Samsung Electronics Co., Ltd. having a principal place of business at 416, Maetan-dong, Paldal-ku, Suwon-city, Kyungki-do, KOREA, referred to as Assignee, is desirous of acquiring our interest in said invention and in any Letters Patent which may be granted therefor.

NOW THIS INDENTURE WITNESSETH, That for a valuable consideration, the receipt of which is hereby acknowledged, we hereby assign, sell and transfer unto the said assignee, the entire right, title and interest in and to inventions disclosed in said application and in and to any Letters Patent of the United States and in and to any Letters Patent or Inventor's Certificates of any and all foreign countries which may be granted therefor, and in and to any and all priority and/or Convention rights or benefits accruing or to accrue to me with respect to the filing or securing of patents in the United States and/or securing of patents or inventor's certificates in any and all countries foreign thereto.

AND WE hereby grant to assignee the right to apply in its own name for patents or inventor's certificates corresponding to the above invention in countries foreign to the United States.

AND WE hereby further agree to sign and properly execute such necessary and lawful papers for application for foreign patents and inventor's certificates for filing applications for United States, foreign patents and inventor's certificates for subdivisions of any applications for patent or inventor's certificate and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention and to perform such further acts as may be required to carry out the intent of this agreement as the assignee thereof shall hereafter require and prepare at assignee's expense.

Dated: April 18, 2003

LEE Jung-Hee

Name: LEE, Jung-Hee

Dated: April 18, 2003

Um Yoon Sung

Name UM, Yoon-Sung

Dated: April 18, 2003

Son Jong Ho

Name: SON, Jong-Ho

Dated: April 18, 2003

LYU JAE JIN

Name: LYU, Jae-Jin

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