

07-30-2003



102511825

To the Honorable Commissioner of Patents and Trademarks, I enclose the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): 7-24-03</p> <p>Mun-Pyo HONG; Wan-Schick HONG; Sang-II KIM; Soo-Guy RHO; Jin-Kyu KANG; and Sang-Gab KIM</p> <p>Additional names of conveying party(ies) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p> <p>3. Nature of Conveyance</p> <p><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: January 8, 2001</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Samsung Electronics Co., Ltd.</p> <p>Internal Address:</p> <p>Street Address: 416, Maetan-dong, Paldal-ku City: Suwon-city, Kyungki-do State or Country: The Republic of KOREA</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
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4. Application number(s) or patent number(s):

Title: **THIN FILM TRANSISTOR ARRAY PANEL FOR A LIQUID CRYSTAL DISPLAY AND METHODS FOR MANUFACTURING THE SAME**

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

A. Patent Application No(s). **09,676,813** filed on **October 2, 2000**

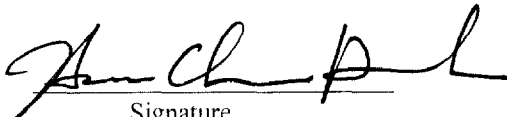
B. Patent No(s). _____

Additional numbers attached? ☐ Yes ☒ No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Hae-Chan Park, Esq. McGuireWoods LLP 1750 Tysons Boulevard, Suite 1800 McLean, Virginia 22102</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00</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: 23-1951</p>
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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 copy is a true copy of the original document.

Hae-Chan Park, Reg. No. 50,114  July 24, 2003
Name of Person Signing Signature Date

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02-06-2001

Form PTO-1595 6/93

Commerce, U.S. Patent and Trademark Office



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1-29-01

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

1. Name of conveying parties:

Mun-Pyo HONG
Wan-Shick HONG
Sang-Il KIM

Additional name(s) of conveying party(ies) attached? ☐ yes ☒ no

2. Name and address of receiving party:

Name: Samsung Electronics Co., Ltd.

Street Address: 416 Maetan-dong, Paldal-ku

City: Suwon-city State: Kyungki-do Zip Code:

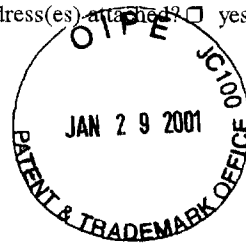
Country: Korea

Additional name(s) & address(es) attached? ☐ yes ☒ no

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Dates: January 8, 2001



4. Application number:

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

A. Patent Application No.

B. Patent No(s).

Additional numbers attached? ☐ yes ☒ no

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

Name: HOWREY SIMON ARNOLD & WHITE, LLP

Internal Address:

Street Address: Box No. 34
1299 Pennsylvania Ave, NW

City: Washington State: DC Zip Code: 20004-2402

6. Total number of applications and patents involved

1

7. Total fee (37 C.F.R. § 3.41).....\$ 40.00

☒ Enclosed☐ Authorized to be charged to Deposit Account

8. Deposit Account Number: 08-3038

02/05/2001 DEBYRNE 00000087 09676813

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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 copy is a true copy of the original document.

Michael J. Bell

Name of Person Signing

Registration No. 39,604

Signature

Date

Total number of pages including cover sheet, attachments and document 3

OMB NO. 0651-0011 (exp.4/94)

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to the undersigned: Mun-Pyo HONG, Wan-Schick HONG, Sang-Il KIM, Soo-Guy RHO, Jin-Kyu KANG and Sang-Gab KIM, the undersigned hereby sells and assigns to SAMSUNG ELECTRONICS CO., LTD. (the Assignee), his entire right, title and interest

check applicable box(es) ☒: for the United States of America (as defined in 35 U.S.C. § 100),
 ☒: and throughout the world,

in the invention known as

THIN FILM TRANSISTOR ARRAY PANEL FOR A LIQUID CRYSTAL DISPLAY AND METHODS FOR MANUFACTURING THE SAME

, for which application for patent in the United States of America has been executed by the undersigned on _____ (also known as United States Application No. 09/676,813, filed **October 2, 2000**), in any and all applications thereon, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations of such applications or Letters Patent(s) and divisional and continuation applications thereof, to the full end of the term or terms for which such Letters Patent(s) issue, including all claims, if any, that may have arisen for infringement prior to the date of this assignment, such entire right, title and interest to be held and enjoyed by the above-named Assignee to the same extent as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

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

The undersigned agrees to execute all papers necessary in connection with any interference that may be declared concerning the application or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned hereby represents that the undersigned has full right to convey the entire interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict therewith.

The undersigned hereby grants:

Jeffrey I. Auerbach, Reg. No. 32,680
Melvin L. Barnes, Jr. Reg. No. 38,375
Michael J. Bell, Reg. No. 39,604
Mark R. Buscher, Reg. No. 35,006
Celine T. Callahan, Reg. No. 34,301
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Timothy L. Scott, Reg. No. 37,931
Anthony W. Shaw, Reg. No. 30,104
J. David Smith, Reg. No. 39,839
Michael J. Songer, Reg. No. 39,841

of HOWREY & SIMON, BOX NO. 34, 1299 PENNSYLVANIA Avenue, N.W., Washington, D.C. 20004-2402, power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned on the date opposite his name.

Date: <u>Jan 8, 2001</u>	Signature of Inventor: <u>Mun-Pyo Hong</u> Mun-Pyo HONG
Date: <u>Jan 8, 2001</u>	Signature of Inventor: <u>Wan-Schick Hong</u> Wan-Schick HONG
Date: <u>Jan 8, 2001</u>	Signature of Inventor: <u>Sang Il Kim</u> Sang-II KIM
Date: <u>Jan 8, 2001</u>	Signature of Inventor: <u>Soo Gyu Rho</u> Soo-Gyu RHO
Date: <u>Jan 8, 2001</u>	Signature of Inventor: <u>Jin-Kyu Kang</u> Jin-Kyu KANG
Date: <u>Jan 8, 2001</u>	Signature of Inventor: <u>Sang Gab Kim</u> Sang-Gab KIM