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

1. Name of conveying parties:

Hee-Sub KIM
Kwan-Sun PARK

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

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

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: **September 26, 2001**

09/967938

4. Application number:

This document is being filed together with a new application, the execution date of the application is September 26, 2001

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

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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

October 2, 2001
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:
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PATENT
REEL: 012226 FRAME: 0290

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned: **Hee-Sub KIM and Kwan-Sun PARK** the undersigned hereby sell and assign to **Samsung Electronics Co., Ltd.** (the Assignee), his/her 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(s) known as **APPARATUS FOR INJECTING LIQUID CRYSTAL MATERIALS AND METHODS FOR MANUFACTURING LIQUID CRYSTAL PANELS BY USING THE SAME**, for which application(s) for patent in the United States of America has (have) been executed by the undersigned on _____ (also known as **United States Application No. _____ filed _____**), 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 agree(s) to execute all papers necessary in connection with the application(s) 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 agree(s) to execute all papers necessary in connection with any interference that may be declared concerning the application(s) 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 grant(s)

Jason C. Abair, Reg. No. 44,007
Michael J. Bell, Reg. No. 39,604
John A. Bendrick, Reg. No. 41,612
Andrew S. Brenc, Reg. No. 45,534
Celine T. Callahan, Reg. No. 34,301
Jenny W. Chen, Reg. 44,604
Mary S. Consalvi, Reg. No. 32,212
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Matthew S. Zises, Reg. No. 47,246

of HOWREY SIMON ARNOLD & WHITE, LLP, Box No. 34, 1299 Pennsylvania Ave., NW, Washington, DC 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(s) opposite their name(s).

Date: September 26, 2001 Signature of Inventor: Hee-Sub KIM
Hee-Sub KIM

Date: September 26, 2001 Signature of Inventor: Kwan-Sun PARK
Kwan-Sun PARK