Atty Docket No.:

FORM PTO-1595

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U.S DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Tracererks. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): FEB 0 2 2001 Hye-Young KIM and Soon-Ku HUH Name: LG.Philips LCD Co., Ltd. 20, Yoido-dong, Youngdungpo-ku Address: Seoul, KOREA Additional name(s) of conveying party(ies) attached A □ Mes ⊠No 3. Nature of Conveyance: □ Merger ☐ Security Agreement □ Change of Name □ Other Execution Date: 12/07/00 (both) Additional name(s) and address(es) attached? □Yes ⊠No 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: A. Patent Application No.(s) B. Patent No.(s) 09/734,010 Additional numbers attached? □Yes ⊠No 5. Name and address of party to whom correspondence 6. Total applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 ■ Previously paid at filing on 12/12/00 LONG ALDRIDGE & NORMAN LLP ☐ Authorized to be charged to deposit account 701 Pennsylvania Avenue, N.W. 6th Floor 8. Deposit account number: 50-0911 Washington, D.C. 20004 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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. February 2, 2001 John M. Kelly Date Name of Person Signing Registration Number: 33,920 Total number of pages including this cover sheet: Do not detach this portion

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PATENT REEL: 012538 FRAME: 0091 Docket No.: 8733.332.00

Assignment of Application

| | KIM, Hye-Young a | ind H | JH, Soon-Ku | |
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| nave invented certair | s in: M | ETHOD OF | | |
| MANUFACT | URING A THIN FIL | M TRA | NSISTOR ARRAY | SUBSTRATE |
| or which an applica | ion for Letters Patent v | vas exe | cuted on | |
| Application No. (| 9/734,010 . | Filed | December 12, 2000 |), and |
| - | Philips LCD Co., Ltd. | • | | |
| WHEREAS, LG | i miips Leb eo., Eta. | | | |
| tol. | to as "ASSIGNEE") ha | ving a j | place of business at: | |
| tole . | | | | c of KOREA |

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

PATENT REEL: 012538 FRAME: 0092 I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts know to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Long Aldridge & Norman LLP, Attorneys at Law, 6th Floor, 701 Pennsylvania Avenue, N.W., Washington, D.C. 20004 the power to insert on this assignment any further identification, including the application number and filing date, which 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.

| Date: 17 December 2000 | J. Km |
|------------------------|--|
| Date | (Signature of Inventor) KIM, Hye-Young |
| Date: 1 December 2000 | (Signature of Inventor) HUH, Soon-Ku |
| Date: | (Signature of Inventor) |

Long Aldridge & Norman LLP

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PATENT
RECORDED: 02/02/2001 REEL: 012538 FRAME: 0093