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U.S. DEPARTMENT OF COMMERCE  
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103336904

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

## 1. Name of conveying party(ies):

Soon Sung YOO; Youn Gyoung CHANG;  
Heung Lyul CHO

Additional name(s) of conveying party(ies)  
attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: November 7, 2003

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

Name: LG.Philips LCD Co., Ltd.

Internal Address:

Street Address:

20, Yoido-dong  
Youngdungpo-ku

City: Seoul

Country: Republic of Korea

Zip:

Additional name(s) &  
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 new application is: November 7, 2003

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

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

Name: Song K. Jung  
MCKENNA LONG & ALDRIDGE LLP

Internal Address: Atty. Dkt.: 8733.935.10-US

Street Address:  
1900 K Street, N.W.

City:  
Washington

State: DC Zip: 20006

## 6. Total number of applications and patents involved:

1

## 7. Total fee (37 CFR 3.41)

\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

☐ Authorized to be charged to credit card  
(Form 2038 enclosed)

## 8. Deposit account number:

50-0911

(Attach duplicate copy of this page if paying by deposit account)

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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.

George G. Ballas; Reg. No.: 52,587

Name of Person Signing

*George G. Ballas*  
Signature

November 9, 2006

Date

Total number of pages including cover sheet, attachments, and documents: 3

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PATENT  
REEL: 018593 FRAME: 0658

## Assignment of Application

WHEREAS, I (WE)	Soon Sung YOO, Yung Gyoung CHANG and Heung Lyul CHO
, respectively,	
have invented certain new and useful improvements in:	
<b>THIN FILM TRANSISTOR ARRAY SUBSTRATE AND MANUFACTURING METHOD OF THE SAME</b>	
for which an application for Letters Patent was executed on	

(Application No. _____)	, Filed _____	), and _____
WHEREAS, LG.Philips LCD Co., Ltd.		
(hereinafter referred to as "ASSIGNEE") having a place of business at: 20 Yoido-dong, Youngdungpo-ku, Seoul, 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.

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 behalf 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 known 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 McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 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: Nov. 07. 2003 Soon Sung Yoo  
(Signature of Inventor)  
Soon Sung YOO

Date: Nov. 07. 2003 Youn Gyoung Chang  
(Signature of Inventor)  
Youn Gyoung CHANG

Date: Nov. 07. 2003 Heung Lyul CHO  
(Signature of Inventor)  
Heung Lyul CHO

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