

01-09-2004



FORM PTO-1595  
(Rev. 6-93)

102642189

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

RECORDATION FORM COVER SHEET  
PATENTS ONLY

Attorney Docket No.: 041501-5597

To the Commissioner for Patents **ATTN: MAIL STOP ASSIGNMENT RECORDATION SERVICES**  
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
  
(1) Byoung Ho LIM  
(2) Seong Hee KIM  
(3) Chul NAM  
(4) Jong Woo PARK  
(5) Gyu Bong KIM  
  
*12.30.03*  
  
Additional names of conveying party(ies) attached?  
 Yes  No

2. Name and address of receiving party(ies):  
  
Name: LG.PHILIPS LCD CO., LTD.  
  
Internal Address:  
  
Street Address: 20, Yoido-dong, Youngdungpo-ku,  
Seoul, Korea  
  
Additional name(s) & address(es) attached?  
 Yes  No

16834 U.S. PTO  
10747073  
123003

3. Nature of conveyance:  
  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
  
Execution Date: (1)&(3)-(5) December 23, 2003, (2)  
December 24, 2003

Additional name(s) & address(es) attached?  
 Yes  No  
  
*10747073*

4. New Application number(s) or patent number(s): **NEW APPLICATION**  
  
If this document is being filed together with a new application the execution date of the application is:  
  
(1)&(3)-(5) December 23, 2003, (2) December 24, 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:** Robert J. Gaybrick  
  
**Internal Address:** Morgan, Lewis & Bockius LLP  
**Customer No. 09629**  
  
**Street Address:** 1111 Pennsylvania Ave., N.W.  
**City:** Washington **State:** D.C. **Zip:** 20004

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 50-0310  
  
8. Deposit Account No. 50-0310  
**(Attach duplicate page if paying by deposit account)**

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.  
  
Robert J. Goodell Reg. No. 41,040 *RAGM* December 30, 2003  
Name of Person Signing Signature Date  
  
Total number of pages including cover sheet, attachments and documents: 4

I-WA/1661917.2

Revised 10/1/03

01/08/2004 DBYRPS 00000178 500310 10747073  
01 FD:ACB 40.00 00

PATENT  
REEL: 014856 FRAME: 0651

23 DEC '03 13:26 LG.LCD

P.3

ATTORNEY DOCKET NO: 041501-5597  
SOLE/JOINT INVENTION  
(U.S. Rights Only)

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), (hereinafter referred to as Assignor(s)), have made an invention entitled:

TRANSREFLECTION-TYPE LIQUID CRYSTAL DISPLAY DEVICE  
AND METHOD OF FABRICATING THE SAME

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on \_\_\_\_\_ (Serial No. \_\_\_\_\_); and


WHEREAS, LG.Philips LCD Co., Ltd., a corporation of Korea, whose post office address is 20, Yoido-dong, Youngdangpo-ku, Seoul, Korea (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident in the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known. December 30, 2003

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

Full Name of First Assignor Byoung Ho LIM	Assignor's Signature 	Date 103. 12.23
Address Hyundai APF, 101-902, Donggok-dong, Kumi-shi, Kyongsangbuk-do, Korea		Citizenship Republic of Korea
Full Name of Second Assignor Seong Hoo KIM	Assignor's Signature	Date
Address Woobang Sincheonji town 111-302, Namyulli, Seokjeok-myun, Chilgok-gun, Kyongsangbuk-do, Korea		Citizenship Republic of Korea

Names of additional inventors attached  Yes [ ] No

Morgan, Lewis & Bockius LLP

1-WA/2003109.1

ATTORNEY DOCKET NO: 041501-5597  
SOLE/JOINT INVENTION  
(U.S. Rights Only)

**ASSIGNMENT**

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled;

**TRANSREFLECTION-TYPE LIQUID CRYSTAL DISPLAY DEVICE  
AND METHOD OF FABRICATING THE SAME**

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on \_\_\_\_\_, (Serial No. \_\_\_\_\_); and

WHEREAS, LG.Philips LCD Co., Ltd., a corporation of Korea, whose post office address is 20, Yeido-dong, Youngdungpo-ku, Seoul, Korea (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all remedies thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known. December 30, 2003

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).



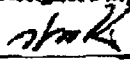
Full Name of First Assignor	Assignor's Signature	Date
Byoung Ho LIM		
Address		Citizenship
Hyundai APT. 101-902, Bongpok-dong, Kumi-shi, Kyongsangbuk-do, Korea		Republic of Korea
Full Name of Second Assignor	Assignor's Signature	Date
Seong Hee KIM	SEONG HEE KIM	24 Dec. 2003
Address		Citizenship
Woobang Sincheonji town 111-302, Namyuulh, Seokjeok-myun, Chilgok-gun, Kyongsangbuk-do, Korea		Republic of Korea

Names of additional inventors attached  Yes  No

Morgan, Lewis & Bockius LLP

1-WA/2093109.1

ATTORNEY DOCKET NO: 041501-5597  
SOLE/JOINT INVENTION  
(U.S. Rights Only)

Full Name of Third Assignor	Assignor's Signature	Date
Chul NAM		'03. 12. 23
Address 662-48, IpAn-dong, Gangneung-shi, Gangwon-do, Korea		Citizenship Republic of Korea
Full Name of Fourth Assignor	Assignor's Signature	Date
Jong Woo PARK		03. 12. 23
Address 1208-18, Hisan5-dong, Seo-gu, Taegu-kwangyokshi, Korea		Citizenship Republic of Korea
Full Name of Fifth Assignor	Assignor's Signature	Date
Gyu Bong KIM		12. 23. 2003
Address Dongbu Villa A-202, 674-20, Sinam 1-dong, Dong-gu, Taegu-kwangyokshi, Korea		Citizenship Republic of Korea

Names of additional inventors attached  Yes  No

Morgan, Lewis & Bockius LLP

1-WA/2003109.1