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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

ET

10181;	3579 Attorney Docket No.: 049128-5027	
To the Commissioner for Patents: Please record the attached original documents or copy thereof.	ATTN: BOX ASSIGNMENT	
1. Name of conveying party(ies): $08/08/01$	2. Name and address of receiving party(ies):	
1. Soon Sung YOO 2. Dong Yeung KWAK 3. Hu Sung KIM 4. Yong Wan KIM 5. Dug Jin PARK 6. Yu Ho JUNG 7. Woo Chae LEE	Name: LG. PHILIPS LCD CO., LTD  Internal Address:	
Additional name(s) of conveying party(ies) attached?  Yes X No	10 To	
3. Nature of conveyance:  X Assignment Merger  Security Agreement Change of Name  Other  Execution Date: (1) July 26, 2001, (2) July 26, 2001(3) July 26,	Street Address: 20, Yoido-dong, Youngdungpo-ku, Seoul, Republic of Korea  City: State: Zip:	
2001, (4) July 27, 2001 (5) July 26, 2001, (6)July 26, 2001 and (7) July 27, 2001	Additional name(s) & address(es) attached?  Yes X No	
4. Application number(s) or patent number(s): NEW APPLICATION 09/923324/		
If this document is being filed together with a new application the execution date of the application is:  (1) July 26, 2001, (2) July 26, 2001(3) July 26, 2001, (4) July 27, 2001 (5) July 26, 2001, (6) July 26, 2001 and (7) July 27, 2001		
A. Patent Application No.(s)  B. Patent No.(s)		
Additional numbers attached: Yes X No		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1	
Name: Robert J. Gaybrick	7. Total fee (37 C.F.R §3.41): <u>\$40.00</u> X Enclosed	
Internal Address: Morgan, Lewis & Bockius LLP Customer No. 009629	Authorized to be charged to deposit account 50-0310	
Street Address: 1800 M Street, N.W. City: Washington State: D.C. Zip: 20036	Deposit account number: 50-0310     Attach duplicate of page if paying by deposit account	
9. Statement and Signature		
the original document.	mation is true and correct and any attached copy is a true copy of	
Robert J. Goodell  Name of Person Signing  1/09/2001 JBALINAN 00000028 09923324  Signal	August 8, 2001  Ture  Date	
	of pages including cover sheet, attachments and documents: 7	

ATTORNEY DOCKET NO: 049128-5024

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:

## LIQUID CRYSTAL DISPLAY AND FABRICATING METHOD THEREOF

Letters Patent on, (Serial No		; or filed an application for United States
WHEREAS, LG. Philips LCD Co., Ltd., gu, Seoul, Korea (hereinafter referred to as Assign the application for United States Letters Patent on		Itle, and interest in and to this invention,
NOW THEREFORE, be it known that, for acknowledged, LWE, as assignor(s), have sold, assumto the assignee, its lawful successors and assigns application, and all divisions, and continuations the all reissues thereof; and LWE hereby authorize and all Letters Patent for this invention to assignee, its	s, MY/OUR entire right, title, and interest in tereof, and all Letters Patent of the United St d request the Commissioner of Patents and T	eby sell, assign, transfer, and set over and to this invention and this ates which may be granted thereon, and rademarks of the United States to issue
AND, I/WE HEREBY further covenant a its successors and assigns, any facts known to ME/papers when called upon to do so, execute and delin said assignee, its successors and assigns, execute generally do everything possible to aid assignee, it livention in the United States, it being understood assignee, its successors and assigns.	iver all papers that may be necessary or desi- e all divisional, continuation, and reissue ap- is successors and assigns, to obtain and enfor-	ny legal proceeding, sign all lawful rable to perfect the title to this invention plications, make all rightful oaths and ree proper patent protection for this
<u> </u>	August 8, 20	filing date and application number of
M4 1 DO 1 DA 1014 1 44 1 DA COL , V 44 E MAY	e nereuno set our nana(s).	
Full Name of Sole or First Assignor	Assignor's Signature	Date
Full Name of Sole or First Assignor		July . 26. 2001
	Assignor's Signature  Soon Sung You	July . >6 . >00   Citizenship
Full Name of Sole or First Assignor  Soon Sung YOO Address	Assignor's Signature  Soon Sung YOO  umi-shi, Kyoungsangbuk-do, Republic of Ko  Assignor's Signature	Tuly = 6 . >00   Citizenship Republic of Korea  Date
Full Name of Sole or First Assignor  Soon Sung YOO  Address #401. Shinsegye Apartment, Hyunggok dong, Ku  Full Name of Second Assignor	Assignor's Signature  Soon Sung YOO  umi-shi, Kyoungsangbuk-do, Republic of Ko  Assignor's Signature	Tuly = 6 . >00   Citizenship Republic of Korea  Date
Full Name of Sole or First Assignor  Soon Sung YOO  Address #401. Shinsegye Apartment, Hyunggok dong, Ku  Full Name of Second Assignor  Dong Yeung KWAK Address	Assignor's Signature  Soon Sung YOO  umi-shi, Kyoungsangbuk-do, Republic of Ko  Assignor's Signature  Dong Young KWAK	Tuly >6. >00  Citizenship  Republic of Korea
Full Name of Sole or First Assignor  Soon Sung YOO  Address #401. Shinsegye Apartment, Hyunggok dong, Ku  Full Name of Second Assignor  Dong Yeung KWAK	Assignor's Signature  Soon Sung YOO  umi-shi, Kyoungsangbuk-do, Republic of Ko  Assignor's Signature  Dong Young KWAK	Tuly = 6 . >00   Citizenship Republic of Korea  Date
Full Name of Sole or First Assignor  Soon Sung YOO  Address #401. Shinsegye Apartment, Hyunggok dong, Ku  Full Name of Second Assignor  Dong Yeung KWAK Address	Assignor's Signature  Soon Sung YOO  umi-shi, Kyoungsangbuk-do, Republic of Ko  Assignor's Signature  Dong Young KWAK	Tuly = 6. >00   Citizenship  Republic of Korea  Date  July = 2b = 200   Citizenship
Full Name of Sole or First Assignor  Soon Sung YOO  Address #401. Shinsegye Apartment, Hyunggok-dong, Ku  Full Name of Second Assignor  Dong Yeung KWAK  Address #103/1108 Green Mansion, Songhyun 2-dong, D	Assignor's Signature  Sown Sung YOO  umi-shi, Kyoungsangbuk-do, Republic of Ko  Assignor's Signature  Dong Yeung KWAK  valseo-ku, Taegu-shi, Republic of Korea	Tuly = 6. >00   Citizenship  Republic of Korea  Date  July = 2b = 200   Citizenship

02 555 9736 **PATENT** PAGE.08

**REEL: 012065 FRAME: 0612** 

1-WA/1601126,1

ATTORNEY DOCKET NO: 049128-5024 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:

LIQUID CRYSTAL DIS	PLAY AND FABRICATING METHOD TH	IEREOF
for which I/WE executed an application for United S Letters Patent on, (Serial No		iled an application for United States
WHEREAS, LG. Philips LCD Co., Ltd., a cgu, Scoul, Korea (hereinafter referred to as Assignee the application for United States Letters Patent on the		and interest in and to this invention,
NOW THEREFORE, be it known that, for a acknowledged, I/WE, as assignor(s), have sold, assign unto the assignee, its lawful successors and assigns, lapplication, and all divisions, and continuations there all reissues thereof; and I/WE hereby authorize and rall Letters Patent for this invention to assignee, its su	MY/OUR entire right, title, and interest in and took, and all Letters Patent of the United States we equest the Commissioner of Patents and Trade.	ell, assign, transfer, and set over to this invention and this which may be granted thereon, and marks of the United States to issue
its successors and assigns, any facts known to ME/U papers when called upon to do so, execute and delive in said assignee, its successors and assigns, execute a generally do everything possible to aid assignee, its invention in the United States, it being understood the assignee, its successors and assigns.	er all papers that may be necessary or desirable all divisional, continuation, and reissue applicate successors and assigns, to obtain and enforce pricate any expense incident to the execution of success the attorneys I/WE have empowered in the D	gal proceeding, sign all lawful to perfect the title to this invention tions, make all rightful oaths and roper patent protection for this h papers shall be borne by the reclaration and Power of Attorney in g date and application number of
IN TESTIMONY WHEREOF, I'WE have I	hereunto set our hand(s).	
Full Name of Sole or First Assignor	Assignor's Signature	Date
Soon Sung YOO Address #401, Shinsegye Apartment, Hyunggok-dong, Kum	i-shi, Kyoungaangbuk-do, Republic of Korea	Citizenship Republic of Korea
Full Name of Second Assignor	Assignor's Signature	Date
Dong Yeung KWAK Address #103/1108 Green Mansion, Songhyun 2-dong, Dale	seo-ku, Taegu-shi, Republic of Korca	Citizenship Republic of Korea
	, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·

Names of additional inventors attached [X] Yes [ ] No

Morgan, Lewis & Bockius LLP

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**REEL: 012065 FRAME: 0613** 

ATTORNEY DOCKET NO: 049128-5024 SOLE/JOINT INVENTION

(U.S. Rights Only)

Full Name of Third Assignor	Assignor's Signature	Date
Hu Sung KIM	Hu Sung Kim	July. 26. 2001
Address		Citizenship
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		Republic of Korea
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Yong Wan KIM		
Address		Citizenship
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		Republic of Korea
Full Name of Fifth Assignor	Assignor's Signature	Date
Dug Jin PARK	Dug Jin Park	July, 26, 200/
Address		Citizenship
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		Republic of Korea
Full Name of Sixth Assignor	Assignor's Signature	Date
Yu Ho JUNG	Yu Ho Jung	July 26, 200/
Address		Citizenship
#B-308, 401-3, Imsu-dong, Kumi-shi, Ky	oungsangbuk-do, Republic of Korea	
		Republic of Korea
Full Name of Seventh Assignor	Assignor's Signature	Date
Woo Chae LEE		
Address		Citizenship
#240-501, Olympicsunsuchon Apt., Bang	l-dong, Songpa-ku, Seoul, Republic of Korea	
		Republic of Korea

Names of additional inventors attached [] Yes

Morgan, Lewis & Bockius LLP

1-WA/1601126.1

**PATENT** 02 555 9736 PAGE.03 **REEL: 012065 FRAME: 0614** 

[X] No

ATTORNEY DOCKET NO: 049128-5024 SOLE/JOINT INVENTION (U.S. Rights Only)

Full Name of Third Assignor	Assignor's Signature	Date
Hu Sung KIM		
Address #5/5, 55-105 Sangwolgok-dong, Sungbul	c-gu, Seoul, Republic of Korca	Citizenship  Republic of Korea
Full Name of Fourth Assignor	Assignor's Signature	Date
Yong Wan KIM	Kim Yong Wan	21. Jul. 2001
Address *B-504, Dongrakwon, 401-3, Imsu-dong,	Kumi-shi, Kyoungsangbuk-do, Republic of Korea	Citizenship  Republic of Korea
Full Name of Fifth Assignor	Assignor's Signature	Date
Dug Jin PARK		
Address #104-601, Hanla Apartment, Taojun-don	g, Buk-ku, Taegu-shi, Republic of Korea	Citizenship  Republic of Korsa
Full Name of Sixth Assignor	Assignor's Signature	Date Of Rorea
Yu Ho JUNG		
Address #B-308, 401-3, Imsu-dong, Kumi-shi, Ky	oungsangbuk-do, Republic of Korca	Citizenship  Republic of Korea
Full Name of Seventh Assignor	Assignor's Signature	Date
Woo Chac LEE		
Address		Citizenship
#240-501, Olympicsunsuchon Apt., Bang	i-dong, Songpa-ku, Seoul, Republic of Korca	Republic of Korea

Names of additional inventors attached [] Yes

Morgan, Lewis & Bockius LLP

1-WA/1601126.1

**REEL: 012065 FRAME: 0615** 

[X] No

ATTORNEY DOCKET NO: 049128-5024 SOLEJOINT 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:

LIQUID CRYST	'AL DISPLAY AND FABRICATING METHOD T	HEREOF
for which I/WE executed an application for Letters Patent on (Serial N	United States Letters Patent concurrently herewith; or o; and	filed an application for United States
gu, Seoul, Korea (hereinafter referred to as	Ltd., a corporation of Korea, whose post office address Assignce), is desirous of securing the entire right, title, ent on this invention and the Letters Patent to be issue	and interest in and to this invention,
acknowledged, I/WE, as assignor(s), have so unto the assignee, its lawful successors and a application, and all divisions, and continuati- all ressues thereof; and I/WE hereby author	hat, for good and valuable consideration the receipt of old, assigned, transferred, and set over, and do hereby assigns, MY/OUR entire right, title, and interest in and one thereof, and all Letters Patent of the United States ize and request the Commissioner of Patents and Tradee, its successors and assigns, in accordance with the terms.	sell, assign, transfer, and set over to this invention and this which may be granted thereon, and emarks of the United States to issue
its successors and assigns, any facts known to papers when called upon to do so, execute as in said assignee, its successors and assigns, of generally do everything possible to aid assigns.	nant and agree that I/WE will, without further conside to ME/US respecting this invention and testify in any lend deliver all papers that may be necessary or desirable execute all divisional, continuation, and reissue applies nee, its successors and assigns, to obtain and enforce parcod that any expense incident to the execution of successors.	egal proceeding, sign all lawful to perfect the title to this invention stions, make all rightful oaths and proper patent protection for this
AND, I'WE HEREBY authorize an this application, to insert here in parentheses and application when known.  IN TESTIMONY WHEREOF, I'W	d request the attorneys I/WE have empowered in the I (Application No, filed) the filin August 8, 200 E have hereunto set our hand(s).	ig date and application number of
Full Name of Sole or First Assignor	Assignor's Signature	Date
Soon Sung YOO		·
Address	ng, Kumi-shi, Kyoungsangbuk-do, Republic of Korea	Citizenship  Republic of Korea
Full Name of Second Assignor	Assignor's Signature	Date
Dong Yeung KWAK		
Address #103/1108 Green Mansion, Songhyun 2-do	ng, Dalseo-ku, Taegu-shi, Republic of Korca	Citizenship
#10077100 Grout Maison, Songrym, 2-00	ng, Daboo-ka, Tangu-sin, Kapunin of Rosea	Republic of Korea
Names	of additional inventors attached [X] Yes [] No	
	Morgan, Lewis & Bockius LLP	

1-WA/1601126.1

02 555\_9736 PATENT PAGE.20 REEL: 012065 FRAME: 0616

ATTORNEY DOCKET NO: 049128-5024 SOLEJOINT INVENTION (U.S. Rights Only)

Full Name of Third Assignor	Assignor's Signature	Date
Hu Sung KIM		
Address		Citizenship
#5/5, 55-105 Sangwolgok-dong, Sungbuk-gn, Seoul, Republic of Korea		
		Republic of Korea
Full Name of Fourth Assignor	Assignor's Signature	Date
Yong Wan KIM		
Address		Citizenship
#B-504, Dongrakwon, 401-3, Imsu-dong,	Kumi-shi, Kyoungsangbuk-do, Republic of Korea	•
		Republic of Korca
Full Name of Fifth Assignor	Assignor's Signature	Date
Dug Jin PARK		
Address		Citizenship
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		Republic of Korea
Full Name of Sixth Assignor	Assignor's Signature	Date
Yu Ho JUNG		
Address		Citizenship
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	1	Republic of Korca
Full Name of Seventh Assignor	Assignor's Signature  Morrchae Lee	Date
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		Republic of Korea

Names of additional inventors attached [] Yes

Morgan, Lewis & Bocklus LLP

1-WA/1601126.1

02 555 9736 **PATENT** PAGE.21 **REEL: 012065 FRAME: 0617** 

[X] No