

06-19-2006

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OMB No. 0651-0027 (exp. 6/30/12)U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office103259954  
PATENT

SHEET

113013 U.S. PTO  
11/451484

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

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

- 1) Jae Y. OH (5/30/2006)  
2) Sung J. HONG (6/5/2006)

Additional name(s) 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

City: Seoul

State: \_\_\_\_\_

Country: Republic of Korea Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name☐ Security Agreement ☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other \_\_\_\_\_

## 4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: **Sunwoo Lee**  
JENKENS & GILCHRIST, A  
PROFESSIONAL CORPORATIONInternal Address: Atty. Dkt.: **68862-05014USPX**

Street Address: 901 15th Street, Suite 900

City: Washington

State: DC Zip: 20005

Phone Number: (202) 326-1525

Fax Number: (202) 326-1571

Email Address: slee@jenkens.com

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

1

## 7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

## 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_b. Deposit Account Number \_\_\_\_\_  
Authorized User Name \_\_\_\_\_

## 9. Signature:

Signature

June 13, 2006

Date

Sunwoo Lee - 43,337

Name of Person Signing

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

7

06/14/2006 RFEKADU1 00000067 11451484

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40.00 OP

DC 145380v1 68862-05014USPX

PATENT  
REEL: 017993 FRAME: 0638

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT** by, Jae Young OH, residing at #101-210, Poil Jugong Apt., Naeson 1-dong, Uiwang-si, Gyeonggi-do, Republic of Korea; and Sung Jin HONG, residing at #124-1501, Gwanak Hyundai Apt., Bongcheon 3-dong, Gwanak-gu, Seoul, Republic of Korea; (hereinafter referred to as Assignors);

**WHEREAS**, Assignors have invented certain new and useful improvements in **HORIZONTAL ELECTRIC FIELD SWITCHING LIQUID CRYSTAL DISPLAY DEVICE AND FABRICATING METHOD THEREOF**, set forth in the attached application for Letters Patent of the United States; and

**WHEREAS**, LG.Philips LCD Co., Ltd., a corporation organized under and pursuant to the laws of Republic of Korea and having its principal place of business at 20, Yoido-Dong, Yongdungpo-Gu, Seoul, Republic of Korea, (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use

and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by any one or all of the Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owner of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification 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:

JENKENS & GILCHRIST, A PROFESSIONAL CORPORATION

All practitioners at Customer Number 56100

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: <u>30 - May. 2006</u>	Signature: <u>Jae Young OH</u> Jae Young OH
Date: _____	Signature: _____ Sung Jin HONG

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT** by, Jae Young OH, residing at #101-210, Poil Jugong Apt., Naeson 1-dong, Uiwang-si, Gyeonggi-do, Republic of Korea; and Sung Jin HONG, residing at #124-1501, Gwanak Hyundai Apt., Bongcheon 3-dong, Gwanak-gu, Seoul, Republic of Korea; (hereinafter referred to as Assignors);

**WHEREAS**, Assignors have invented certain new and useful improvements in **HORIZONTAL ELECTRIC FIELD SWITCHING LIQUID CRYSTAL DISPLAY DEVICE AND FABRICATING METHOD THEREOF**, set forth in the attached application for Letters Patent of the United States; and

**WHEREAS**, LG.Philips LCD Co., Ltd., a corporation organized under and pursuant to the laws of Republic of Korea and having its principal place of business at 20, Yoido-Dong, Yongdungpo-Gu, Seoul, Republic of Korea, (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use

and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by any one or all of the Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owner of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification 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:

JENKENS & GILCHRIST, A PROFESSIONAL CORPORATION

All practitioners at Customer Number 56100

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Jae Young OH

Date: June 5, 2006

Signature: Sung Jin Hong  
Sung Jin HONG