

11-30-2007

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Form PTO-1595  
(Rev. 03/01)  
OMB No. 0651-0027 (exp. 5/31/2002)

HEET U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

11-20-07

1. Name of conveying party(ies):

KIM, Mun Chul

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

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: 26 December 2003

2. Name and address of receiving party(ies)

Name: LG.PHILIPS LCD CO., LTD.

Internal Address:

Street Address:

20 Yoido-dong  
Youngdungpo-gu

City: Seoul

State: 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: 20 November 2007

A. Patent Application No.(s): ; filed

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.: 8733.1003.10

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

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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.

Eric J. Nuss Registration No. 40,106

Name of Person Signing

Signature

20 November 2007

Date

Total number of pages including cover sheet, attachments, and documents: 2

11/23/2007 CNGUYEN2 00000004 11984688

04 FC:0021

DC:505020030P

PATENT  
REEL: 020184 FRAME: 0931

Docket No.: 8733.1003

## Assignment of Application

|   |                          |         |                 |
|---|--------------------------|---------|-----------------|
| <b>WHEREAS, I (WE)</b>  | Mun-Chul KIM             |         |                 |
|   |                          |         |                 |
|   |                          |         | , respectively, |
| have invented certain new and useful improvements in:   |                          |         |                 |
| <b>DRIVING CIRCUIT FOR USE IN CHOLESTERIC LIQUID CRYSTAL DISPLAY DEVICE</b>   |                          |         |                 |
| for which an application for Letters Patent was executed on   |                          |         |                 |
| (Application No.  |                          | , Filed | ), and          |
| <b>WHEREAS,</b>   | LG.Philips LCD Co., Ltd. |         |                 |
| (hereinafter referred to as "ASSIGNEE") having a place of business at:<br>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: 26 September 2009

Mun-Chul Kim  
(Signature of Inventor)  
Mun-Chul KIM

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

\_\_\_\_\_  
(Signature of Inventor)

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

\_\_\_\_\_  
(Signature of Inventor)

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

\_\_\_\_\_  
(Signature of Inventor)

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

\_\_\_\_\_  
(Signature of Inventor)

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

\_\_\_\_\_  
(Signature of Inventor)

**McKenna Long & Aldridge LLP**  
Attorneys At Law  
1900 K Street, N.W.  
Washington, D.C. 20006

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) RECORDATION FORM COVER SHEET PATENTS ONLY U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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| <b>1. Name of conveying party(ies):</b><br><b>KIM, Mun Chul</b><br><br>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | <b>2. Name and address of receiving party(ies)</b><br>Name: <u>LG.PHILIPS LCD CO., LTD.</u><br>Internal Address: _____<br>Street Address: _____<br><br><b>20 Yoido-dong<br/>Youngdungpo-gu</b><br><br>City: <u>Seoul</u><br>State: <u>KOREA</u> Zip: _____<br>Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>3. Nature of Conveyance:</b><br><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger<br><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name<br><input type="checkbox"/> Other _____<br>Execution Date: <u>26 December 2003</u> |  |

**4. Application number(s) or patent number(s):**  
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|                                       |                                       |
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| A. Patent Application No.(s): ; filed | B. Patent No.(s):<br><b>FILE COPY</b> |
|---------------------------------------|---------------------------------------|

Additional numbers attached?  Yes  No

|   |  |
|---|--|
| <b>5. Name and address of party to whom correspondence concerning document should be mailed:</b><br>Name: <u>Song K. Jung<br/>MCKENNA LONG &amp; ALDRIDGE LLP</u><br>Internal Address: <u>Atty. Dkt.: 8733.1003.10</u><br>Street Address: _____<br><br><u>1900 K STREET, N.W.</u><br><br>City: <u>WASHINGTON</u> State: <u>DC</u> Zip: <u>20006</u> | <b>6. Total number of applications and patents involved:</b> <u>1</u><br><b>7. Total fee (37 CFR 3.41)</b> \$ <u>40.00</u><br><input checked="" type="checkbox"/> Enclosed<br><input type="checkbox"/> Authorized to be charged to deposit account<br><input type="checkbox"/> Authorized to be charged to credit card (Form 2038 enclosed)<br><b>8. Deposit account number:</b> <u>50-0911</u><br>(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.*

Eric J. Nuss Registration No. 40,106 Eric J. Nuss 20 November 2007  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 2