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04/26/2007Form  
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United States Patent and Trademark Office

103405011

FORM COVER SHEET

## PATENTS ONLY

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):

Sang-Ho CHOI (04/23/2007) and Jong-Jin PARK  
(04/20/2007)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-Gu

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):

A. Patent Application No.(s)

NEW

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

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

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

Name: Esther H. Chong  
BIRCH, STEWART, KOLASCH & BIRCH,  
LLP

Internal Address: Atty. Dkt.: 3430-0230PUS1

Street Address: 8110 Gatehouse Road  
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P.O. Box 747

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State: VA Zip: 22040-0747

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Fax Number: (703) 205-8050

Email Address: mailroom@bskb.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 02-2448  
Authorized User Name Esther H. Chong

## 9. Signature:

Signature

April 26, 2007

Date

Esther H. Chong - 40,953

Name of Person Signing

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

4

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**BIRCH, STEWART, KOLASCH & BIRCH, LLP**

UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

**ASSIGNMENT**

Application No. NEW Filed 4/26/07

Insert Name(s) of Inventor(s) \*\*\* (Given Name FAMILY NAME (ALL CAPS)) \*\*\*

WHEREAS, **Sang-Ho CHOI and Jong-Jin PARK** (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title of Invention

**IN-PLANE SWITCHING MODE LIQUID CRYSTAL DISPLAY DEVICE, ARRAY SUBSTRATE FOR IN-PLANE SWITCHING MODE LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF DRIVING THE SAME**

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date of Signing of Application  
Insert Name of Assignee  
Insert Address of Assignee

on 4/23/07, 4/20/07; and

WHEREAS, **LG.PHILIPS LCD CO., LTD.**

**of 20, Yoldo-Dong, Youngdungpo-Gu, Seoul, Republic of Korea**

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

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☒ in any foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date April 23<sup>rd</sup> 2007

Name of Inventor Sang-Ho Choi  
(signature) **Sang-Ho CHOI**

Date \_\_\_\_\_

Name of Inventor \_\_\_\_\_  
(signature) **Jong-Jin PARK**

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date \_\_\_\_\_

Name of Inventor \_\_\_\_\_

(signature) Sang-Ho CHOI

Date 04.20.2007

Name of Inventor \_\_\_\_\_

Jong-Jin PARK  
(signature) Jong-Jin PARK