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U.S. PTO 12/461164 08/03/2009

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N FORM COVER SHEET ENTS ONLY 103570222 To the Director or the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below 2. Name and address of receiving party(ies) 1. Name of conveying party(ies): CHANG, Byung-Hoon, KIM, Min-Jung Name: LG.PHILIPS LCD CO., LTD. Internal Address: Additional name(s) of conveying party(ies) Street X No 20 Yoido-dong, Youngdungpo-ku attached? Address: 3. Nature of Conveyance/Execution Date(s): Merger X |Assignment Change of Name Security Agreement City: Seoul Joint Research Agreement State: **Government Interest Agreement** Country: Korea Other Zip: Additional name(s) & X No Yes June 15, 2006 Execution Date(s): address(es) attached: 4. Application or patent number(s): 6 U X This document is being filed together with a new application. A. Patent Application No.(s): B. Patent No.(s): Additional numbers attached? Yes Name and address of party to whom correspondence 6. Total number of applications and concerning document should be mailed: patents involved: 1 Name: MCKENNA LONG & ALDRIDGE LLP 7. Total fee (37 CFR 3.41) 40 X Enclosed Internal Address: Atty. Dkt.: 8733.1612.10 Street Address: Authorized to be charged to deposit account 1900 K STREET, N.W. None required (government interest not affecting title) 8. Deposit account number: City: State: Zip: DC 20006 WASHINGTON 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 August 3, 2009 Name of Person Signing, Reg. No. Signature Date

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

49/44/2009 LNGUYEN1 00000038 12461164 04 FC:8021 40.00 OP

Based on Form PTO-1595 (Rev. 09-08)

REEL: 023080 FRAME: 0411

To: 202 496 7756

Docket No.: 8733.1612.00

## Assignment of Application

WHEREAS,	I (WE)	Byung-Hoo	<b>CHANG</b>	and	Min-Ju	ag KIM	
		<u> </u>				, respec	tiv <b>ely</b> ,
have invented certe						-	
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for which an applic	ation so	r Letters Paler	nt was exec	uted o	n		
(Application No.			Ţ.,	ilod			), and
WHEREAS,	LG.Ph	lips LCD Co	., Ltd.				
	14 4			1	£	. 4 -	
(hereinafter referre 20 Yoldo-dong, Y	omitani et to se	gpo-ku, Scou	) having a p I, KOREA	INCE O	i onsides :	at;	

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 assignce 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 ASSYGNEE 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 relastic applications, execute all necessary assignment papers to cause my and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful ouths, and, generally do everything possible to aid suid ASSIGNEE, its (his) successors and assigns, to obtain and

Page 1 of 2

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: 6. 6.15	Char C.
	(Nighting of Inventor) Byung-Hoon CHANG
Duto: 2006. 6. 15	(Signature of Inventor) Min-Jung KIM
Disto:	(Signature of Inventor)
Dutc!	(Signature of tryeator)
Date:	(Signature of lavember)

McKenns Long & Aldridge LI.P Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Page 2 of 2

continuation, division, renewal, substitute or reissue thereof for the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNING

IN WITNESS WHEREOF, I/We have hereunto set

hand and seal this 28th day of July , 2009

	By: Direch! d'awagnehi (11)
SIGNATURE	By: Pir oshi d'awagrehi (11) HIROSHI KAWAGUCHI
SIGNATURE	By:
<u>witnesses</u>	Mank In Fujim
	(Assignment of Application for Patent page 2 of 2)

PATENT REEL: 023080 FRAME: 0414

**RECORDED: 08/03/2009**