

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Teruhisa Nakagawa</td> <td>07/09/2012</td> </tr> <tr> <td>Yoshinori Aono</td> <td>07/10/2012</td> </tr> <tr> <td>Masahiro Ishii</td> <td>07/09/2012</td> </tr> </tbody> </table>		Name	Execution Date	Teruhisa Nakagawa	07/09/2012	Yoshinori Aono	07/10/2012	Masahiro Ishii	07/09/2012
Name	Execution Date								
Teruhisa Nakagawa	07/09/2012								
Yoshinori Aono	07/10/2012								
Masahiro Ishii	07/09/2012								
RECEIVING PARTY DATA									
Name:	Panasonic Liquid Crystal Display Co. Ltd								
Street Address:	1-6 Megahida-cho								
Internal Address:	Shikama-ku								
City:	Himeji-shi, Hyogo								
State/Country:	JAPAN								
Postal Code:	672-8033								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13549208</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13549208				
Property Type	Number								
Application Number:	13549208								
CORRESPONDENCE DATA									
Fax Number:	2027568087								
Phone:	202-756-8000								
Email:	mweipdocket@mwe.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	MCDERMOTT WILL & EMERY LLP								
Address Line 1:	600 13TH STREET, NW								
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20005-3096								
ATTORNEY DOCKET NUMBER:	091328-0011								
NAME OF SUBMITTER:	Michael E. Fogarty.jpg								
Total Attachments: 2 source=ASSIGNMENT#page1.tif source=ASSIGNMENT#page2.tif									

CH \$40.00 13549208

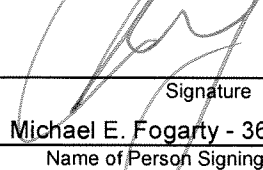
RECORDATION FORM COVER SHEET
PATENTS ONLY

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): Teruhisa NAKAGAWA (07/09/2012), Yoshinori AONO (07/10/2012), and Masahiro ISHII (07/09/2012) Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Panasonic Liquid Crystal Display Co., Ltd. Name: _____ Internal Address: _____ Street Address: _____ 1-6, Megahida-cho, Shikama-ku Himeji-shi, Hyogo 672-8033 JAPAN City: _____ State: _____ Country: _____ Zip: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance/Execution Date(s): Execution Date(s): in parentheses after inventor name <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	

4. Application or patent number(s): A. Patent Application No.(s) 13/549,208 Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> This document is being filed together with a new application. B. Patent No.(s) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

5. Name and address to whom correspondence concerning document should be mailed: Name: Michael E. Fogarty MCDERMOTT WILL & EMERY LLP Internal Address: Atty. Dkt.: 091328-0011 Street Address: 600 13th Street, N.W. City: Washington DC State: DC Zip: 20005-3096 Phone Number: (202) 756-8372 Fax Number: (202) 756-8087 Email Address: mweipdocket@mwe.com	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title) 8. Payment Information Deposit Account Number 50-0417 Authorized User Name Michael E. Fogarty
---	--

9. Signature:  Signature Michael E. Fogarty - 36,139 Name of Person Signing	September 12, 2012 Date Total number of pages including cover sheet, attachments, and documents: <input type="checkbox"/>
---	---

Panasonic Ref*: P625331-01

Application Serial No. 13/549,208

Japan Firm Name: HARUKA Patent & Trademark Attorneys

Japan Firm Ref: PLD-50058(US)

US Firm Name*: MWE
 (* must be filled)

US Firm Ref: 091328-0011

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:

Box 1		
Title of Invention: LIQUID CRYSTAL DISPLAY DEVICE		
<i>1. For use when signing Declaration prior to filing U.S. patent application (check only one box below)</i>		
(a) <input type="checkbox"/> for which an application for U.S. patent has been executed by the undersigned concurrently herewith, or		
(b) <input type="checkbox"/> for which an application for U.S. patent has been executed on the following date(s): _____, or <small>(if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if the Declaration was signed before this Assignment, enter the date(s) on which you signed the Declaration)</small>		
(c) <input type="checkbox"/> for which an International Application has been filed as: <small>(for the PCT-US national entry, check only (c) and enter PCT application number in the right)</small>	PCT Application No. _____	and, _____
<i>2. For use when signing Declaration after filing U.S. patent application</i>		
(d) <input checked="" type="checkbox"/> for which an application for U.S. patent has been filed on:	Application Filing Date	July 13, 2012 and, _____

WHEREAS, Panasonic Liquid Crystal Display Co., Ltd. of 1-6, Megahida-cho, Shikama-ku, Himeji-shi, Hyogo 672-8033, Japan, its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are 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.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefor, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

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

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee(s) and hereby covenants that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

The undersigned hereby does sell, assign and transfer unto said Assignee(s) the full and exclusive authority for revoking power of attorney(s) executed by the undersigned in connection with this application and for appointing a new power of attorney in place thereof. The undersigned hereby grant(s) the Assignee(s) and the appointed U.S. patent attorneys and agents 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 Office for recordation of this document.

The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2 (Each Inventor, please Sign and Date below)			
	(e) First Name, Last Name	(f) Signature	(g) Date signed <small>Month, Date, Year</small>
(1)	Teruhisa Nakagawa	Teruhisa Nakagawa	July 9, 2012 <small>Month, Date, Year</small>
(2)	Yoshinori Aono	Yoshinori Aono	July 10, 2012 <small>Month, Date, Year</small>
(3)	Masahiro Ishii	Masahiro Ishii	July 9, 2012 <small>Month, Date, Year</small>
(4)			<small>Month, Date, Year</small>

Check if additional paper(s) is/are attached. Total of ____ pages are submitted.