

FORM PTO-1595
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OMB No. 0651-0011 (exp. 4/94)
HSML-20326.19US01

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Patent and Trademark Office

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<p>1. Name of conveying party(ies):</p> <p>Takashi NAKAI Goki TOSHIMA Ryutaro OKE Junichi MARUYAMA</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Panasonic Liquid Crystal Display Co., Ltd. 1-6, Megahida-cho, Shikama-ku Himeji-shi, Hyogo 672-8033 Japan</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: February 14, 2012

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) B. Patent No.(s)

13/415457

Additional numbers attached? Yes No

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

Name: Douglas P. Mueller
Address: Hamre, Schumann, Mueller & Larson P.C.
P. O. Box 2902
Minneapolis, MN 55402-0902

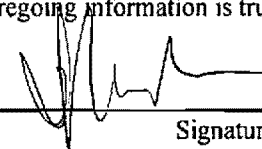
6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00
 Enclosed
 Authorized to be charged to Deposit Account No. 50-3478.

8. Please charge any additional fees or credit any overpayments to our Deposit account number: 50-3478

Statement and signature: DO NOT USE THIS SPACE

9. 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.

Douglas P. Mueller  March 8, 2012
Name of Person Signing Signature Date

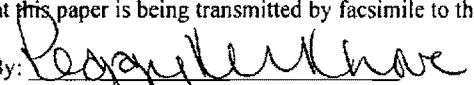
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CERTIFICATE UNDER 37 CFR 1.6(d): I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on March 8, 2012.

By: 
Name: Peggy Kerkhove

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PATENT OFFICE

PATENT
REEL: 027845 FRAME: 0483

Panasonic Ref*: P612047-01

Application Serial No. _____

Japan Firm Name: HARUKA Patent & Trademark Attorneys

Japan Firm Ref: PLD-50049(US)

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

US Firm Ref: _____

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 checked="" 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 type="checkbox"/> for which an application for U.S. patent has been filed on:	Application Filing Date _____	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 therefore, 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)	Takashi Nakai	<i>Takashi Nakai</i>	February 14, 2012
(2)	Goki Toshima	<i>Goki Toshima</i>	Feb. 14, 2012
(3)	Ryutaro Oke	<i>Ryutaro Oke</i>	Feb. 14, 2012
(4)	Junichi Maruyama	<i>Junichi Maruyama</i>	Feb 14, 2012

PATENT