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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): Makoto Yokoyama (11/08/2011), Yasushi Sasaki (11/08/2011), Yuhichiroh Murakami (11/08/2011), and Shige Furuta (11/08/2011) 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) Name: <u>Sharp Kabushiki Kaisha</u> Internal Address: _____ Street Address: <u>22-22, Nagaike-cho, Abeno-ku</u> <u>Osaka-shi, Osaka</u> <u>545-8522</u> <u>JAPAN</u> 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): <u>in parentheses after inventor name</u> <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) <u>13/375,778</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Donald J. Daley</u> <u>HARNESS, DICKEY & PIERCE, P.L.C.</u> Internal Address: <u>Atty. Dkt.: 12480SL-000523/US/NP</u> Street Address: <u>P.O. Box 8910</u> City: <u>Reston</u> State: <u>VA</u> Zip: <u>20195</u> Phone Number: <u>(703) 668-8030</u> Fax Number: <u>(703) 668-8200</u> Email Address: <u>ddaley@hdp.com</u>	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <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 <u>08-0750</u> Authorized User Name <u>Donald J. Daley</u>	
9. Signature: <div style="text-align: center; margin-top: 20px;"> _____ Signature </div> <div style="text-align: right; margin-top: 10px;"> <u>December 2, 2011</u> Date </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <u>Donald J. Daley - 34,313</u> Name of Person Signing </div> <div style="text-align: right;"> Total number of pages including cover sheet, attachments, and documents: 4 </div> </div>	

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PATENT
REEL: 027337 FRAME: 0389

ASSIGNMENT

Atty. Dkt. No.:

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

DISPLAY DRIVING CIRCUIT, DISPLAY DEVICE AND DISPLAY DRIVING METHOD

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) ☐ executed on _____, _____, _____; or
- (c) ☒ filed on February 23, 2010, and assigned Serial No. _____ or PCT International Application No. PCT/JP2010/001175;
- (d) ☐ U.S. Patent No. _____, issued _____; and

WHEREAS, **SHARP KABUSHIKI KAISHA**

22-22 Nagaike-cho Abeno-ku

Osaka-shi, Osaka

JAPAN 545-8522

, hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

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

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and

ASSIGNMENT

Atty. Dkt. No.:

applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. 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.

Makoto Yokoyama

Makoto YOKOYAMA

November 8, 2011

Dated

Yasushi Sasaki

Yasushi SASAKI

November 8, 2011

Dated

Yuhichiro Murakami

Yuhichiro MURAKAMI

November 8, 2011

Dated

Shige Furuta

Shige FURUTA

November 8, 2011

Dated