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Form <b>PTO-1595</b> (Rev. 01-09) OMB No. 0651-0027 (exp. 02/28/2009)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
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Makoto Yokoyama (11/17/2011), and	Internal Address:
Additional name(s) of conveying party(les) attached? X Yes No	Street Address:
3. Nature of conveyance/Execution Date(s):	22-22, Nagaike-cho, Abeno-ku
Execution Date(s): in parentheses after inventor name	Osaka-shi, Osaka 545-8522
X Assignment Merger Change of Name	JAPAN
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4. Application or patent number(s):  A. Patent Application No.(s)  13/378,214  Additional numbers attached?	This document is being filed together with a new application.  B. Patent No.(s)  Yes X No
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Donald J. Daley	
HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Atty. Dkt.: 12480SL-000533/US/NP Street Address: P.O. Box 8910	X Authorized to be charged to deposit account     Enclosed     None required (government interest not affecting title)
City: Reston	8. Payment Information
State: VA Zip: 20195	
Phone Number: (703) 668-8000	
Fax Number: (703) 668-8200	Deposit Account Number 08-0750
Email Address: dcmailroom@hdp.com	Authorized User Name Donald J. Daley
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Donald J. Daley - 34,313  Name of Person Signing	Total number of pages including cover sheet, attachments, and documents;

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PATENT REEL: 027416 FRAME: 0109 From: Harness Dickey 703-668-8200 To: 957

To: 95712730140

Page: 3/5

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·		COVER SHEET (PTO-1595) ental sheet)	
Additional Conveying F	Party(ies)/Execution D	ate(s) (1. Continued):	·
Takahiro Yamaguchi (11/17	7/2011)		
Additional Assignees (2	2. Continued):		<del></del>
Assignee Name:			
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Additional Applications	and/or Patents (4. Co	ontinued):	. ,
Additional Patent Application Num  4A. Continued:	bers	Additional Patent Numbers 4B. Continued:	
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	Additional numbers attached?	Yes No	

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Docket No.: 12480SL-000533/US/NP

From: Harness Dickey 703-668-8200 To: 95712730140 Page: 4/5 Date: 12/14/2011 4:23:24 PM

## **ASSIGNMENT**

Atty. Dkt. No.:

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

FLIP-FLOP, SHIFT REGISTER, DISPLAY DRIVE CIRCUIT, DISPLAY APPARATUS, AND DISPLAY PANEL

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)	$\boxtimes$	filed on March 26, 2010, and assigned Serial No or PC International Application No. <u>PCT/JP2010/002196</u> ;
	(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

Page 1 of 2

## **ASSIGNMENT**

Atty. Dkt. No.: -

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 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.

(Juhichiroh Phurapame
Yuhichiroh MURAKAMI
November 17, 2011
Dated
Shizo levutar
Shige FURUTA
November 17, 2011
Dated
Yezushi Dewserki
Yasushi SASAKI
November 17, 2011
Dated
Makoto Yokoyama
Makoto YOKOYAMA
November 17, 2011
Dated
Takahiro Jamaguchi Takahiro YAMAGUCHI
Takahir Jamaguchi J. J.
Dated November 17 2011

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