

700481972 03/13/2012

Form PTO-1595 (Rev. 01-09)
OMB No. 0651-0027 (exp. 02/28/2009)

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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):

Etsuo Yamamoto (02/22/2012), Yasushi Sasaki (02/22/2012), Yuhichiroh Murakami (02/22/2012), Shige Furuta (02/22/2012), Seijirou Gyouten (02/22/2012), and Shuji Nishi (02/22/2012)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Sharp Kabushiki Kaisha

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545-8522
JAPAN

City: _____

State: _____

Country: _____ Zip: _____

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other _____

4. Application or patent number(s):

A. Patent Application No.(s)

13/395,681

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Donald J. Daley
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6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☒ Authorized to be charged to deposit account

☐ Enclosed


☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 08-0750

Authorized User Name Donald J. Daley

9. Signature:



Signature

March 13, 2012

Date

Donald J. Daley - 34,313

Name of Person Signing

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

3

CH \$40.00 080750 13395681

DJD/bh

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PATENT
REEL: 027866 FRAME: 0484

ASSIGNMENT

Atty. Dkt. No.:

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

DISPLAY APPARATUS AND DISPLAY APPARATUS 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 May 18, 2010, and assigned Serial No. _____ or PCT International Application No. PCT/JP2010/058385;
- (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.

Etsuo Yamamoto

Etsuo YAMAMOTO

February 22, 2012

Dated

Yasushi Sasaki

Yasushi SASAKI

February 22, 2012

Dated

Yuhichiro Murakami

Yuhichiro MURAKAMI

February 22, 2012

Dated

Shige Furuta

Shige FURUTA

February 22, 2012

Dated

Seijirou Gyouten

Seijirou GYOUTEN

February 22, 2012

Dated

Shuji Nishi

Shuji NISHI

February 22, 2012

Dated