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U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



HEET

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13/138396

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

8/10/11

1. Name of conveying party(ies):

Isao Ogasawara (06/28/2011), Takaharu Yamada (06/28/2011), Masahiro Yoshida (06/28/2011), Satoshi Horiuchi (06/28/2011),

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

2. Name and address of receiving party(ies)

Name: Sharp Kabushiki Kaisha

Internal Address: _____

Street Address: _____

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Osaka-shi, Osaka
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):

This document is being filed together with a new application.

A. Patent Application No.(s)

This application 13138396

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 _____

Authorized User Name _____

9. Signature:

Donald J. Daley
Signature

August 10, 2011
Date

Donald J. Daley - 34,313
Name of Person Signing

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

4

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PATENT
REEL: 026761 FRAME: 0844

RECORDATION FORM COVER SHEET (PTO-1595)
(supplemental sheet)

13/138396

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Shinya Tanaka (06/29/2011), and Tetsuo Kikuchi (06/29/2011)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address:

Street Address:

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Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers
4A. Continued:

Additional Patent Numbers
4B. Continued:

Additional numbers attached?

Yes

No

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

TFT ARRAY SUBSTRATE, AND LIQUID CRYSTAL 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) filed on November 5, 2009, and assigned Serial No. _____ or PCT International Application No. PCT/JP2009/068905;
- (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.

Isao Ogasawara
Isao OGASAWARA

June 28, 2011
Dated

Takaharu Yamada
Takaharu YAMADA

June 28, 2011
Dated

Masahiro Yoshida
Masahiro YOSHIDA

June 28, 2011
Dated

Satoshi Horiuichi
Satoshi HORIUCHI

June 28, 2011
Dated

Shinya Tanaka
Shinya TANAKA

June 29, 2011
Dated

Tetsuo Kikuchi
Tetsuo KIKUCHI

June 29, 2011
Dated