

05-21-2004

Atty. Docket No.: 0397-0478PUS1

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102750059 COVER SHEET

5-13-04

To the Director of the U.S. Patent and Trademark Office:
Please record the attached original documents or copy thereof.

16018 U.S. PTO
10/844567

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<p>1. Name of conveying party(ies): [FAMILY NAME (ALL CAPS), Given Name] IWATA, Hiroshi SHIBATA, Akihide</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) Name: SHARP KABUSHIKI KAISHA Internal Address: Street Address: 22-22 Nagaike-cho, Abeno-ku, Osaka-shi City: Osaka State: ZIP: Country: Japan Postal Code: 545-0013</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: April 27, 2004</p>	

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: **April 27, 2004**

A. Patent Application No(s).

10844567

B. Patent No.(s).

Additional numbers attached? ☐ YES ☒ NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP Street Address: P.O. BOX 747 City: FALLS CHURCH State: VA ZIP: 22040-0747 Country: USA</p>	<p>6. Total No. of applications/patents involved: one (1)</p> <p>7. Total fee (37 C.F.R. § 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account, if no fee attached.</p> <p>8. Deposit account number: 02-2448</p> <p>(Attach triplicate copy of this page if paying by deposit account)</p>
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9. Statement and signature.

Terrell C. Birch, #19,382
Name of Person Signing/Reg. No.

Signature

May 13, 2004
Date

05/17/2004 EHAILE1 00000003 10844567
Total number of pages including cover sheet, attachments, and document: **three (3)**

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(Rev. 02/12/2004)

PATENT
REEL: 015342 FRAME: 0113

BIRCH, STEWART, KOLASCH & BIRCH, LLP

**UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**

ATTORNEY DOCKET NO.
0397-0478PUS1

ASSIGNMENT

Application No. _____

Filed 05/13/2004

**Insert Name(s)
of Inventor(s)** ➡

WHEREAS, Hiroshi IWATA and Akihide SHIBATA

**Insert Title
of Invention** ➡

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in _____

DISPLAY DRIVER, DISPLAY DEVICE, AND PORTABLE ELECTRONIC APPARATUS

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

**Insert Date
of Signing of
Application** ➡

on April 27, 2004; and

**Insert Name
of Assignee** ➡

WHEREAS, SHARP KABUSHIKI KAISHA

**Insert Address
of Assignee** ➡

of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan

**CHECK BOX
IF APPROPRIATE** ➡

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is 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 in the United States of America and

☐ in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP 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.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date April 27, 2004, Name of Inventor Hiroshi Iwata
(signature) Hiroshi IWATA

Date April 27, 2004, Name of Inventor Akihide Shibata
(signature) Akihide SHIBATA

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)