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Docket No. 48,193

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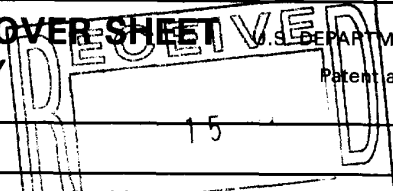
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1 COVER SHEET ONLY



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Patent and Trademark Office

1. Name of Conveying Party(ies):

Yoshinobu Tomomura, Tahei Nakaue and
Nobuaki Takahashi

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

2. Name and address of receiving party(ies)

Name: **Sharp Kabushiki Kaisha**

Street Address: **22-22, Nagaïke-cho, Abeno-ku**

Osaka 545-8522, JAPAN

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached? **No**

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

Execution Date: **April 15, 1998**

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: _____

A. Patent Application No.(s)

serial number - 09/041,256 - filed 3/12/98

B. Patent No.(s)

Additional numbers attached? **No**

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

Name: **David G. Conlin, Esq.**

Internal Address: _____

Street Address: **Dike, Bronstein, Roberts, et al., LLP**

130 Water Street

City: **Boston,** State: **MA** ZIP: **02109**

6. No. of applications and/or patents involved: **1**

7. Total fee (37 CFR 3.41)..... \$ **40.00**

- ☒ Enclosed
☐ Authorization to charge deposit account
☐ Total amount due
☐ Any fee deficiencies that may be due

8. Deposit account number: _____

(Attach duplicate copy of this page if paying by deposit account)

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05/27/1998 JMWTKINS 00000193 09041256

05/27/1998 Statement and signature, 40.00 DP

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David G. Conlin, Esq. (27,026)

Name and Registration Number of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **3**

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, DC 20231

PATENT
REEL: 9189 FRAME: 0954

ASSIGNMENT

Serial No. 09/041,256

Filed March 12, 1998

WHEREAS, Yoshinobu TOMOMURA, Tahei NAKAUE and Nobuaki TAKAHASHI

Insert Name(s)
of Inventor(s)

Insert Title
of Invention(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements
in LIQUID CRYSTAL DISPLAY HAVING ADJUSTABLE EFFECTIVE VOLTAGE
VALUE FOR DISPLAYInsert Date
of Signing of
Applicationfor which an application for Letters Patent of the United States of America has been executed by the
undersigned on April 15, 1998; and

WHEREAS, Sharp Kabushiki Kaisha

Insert Name
of Assignee

Insert Address
of Assignee

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

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;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) 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 do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories, dependencies and possessions and the entire right, title and interest and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations 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 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 or reissue thereof or Letters 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 of 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 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) the request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing 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 Dike, Bronstein, Robert & Cushman 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.

Date April 15, 1998, Name of Inventor Yoshinobu Tomomura
(signature) Yoshinobu TOMOMURA

Date April 15, 1998, Name of Inventor Tahei Nakave
(signature) Tahei NAKAUE

Date April 15, 1998, Name of Inventor Nobuaki Takahashi
(signature) Nobuaki TAKAHASHI

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)