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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Katsuhiro KIKUCHI Ikuiji KONISHI Toshiyuki TANAKA Kanae SUENAGA <i>20-21-03</i></p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: <u>October 16 2003</u></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: <u>Sharp Kabushiki Kaisha</u> Internal Address: _____ Street Address: <u>22-22, Nagaike-cho, Abeno-ku,</u> <u>Osaka-shi</u></p> <p>City: <u>Osaka</u> State/Country: <u>Japan</u> Zip: <u>545-8522</u></p> <p>Additional name/s & address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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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: October 16, 2003

<p>A. Patent Application No(s). (1) <i>10689086</i> (2) (3)</p>	<p>B. Patent No(s). (1) (2) (3)</p>
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Additional numbers attached ☐ Yes ☒ No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>H. Warren Burnam, Jr.</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>Nixon & Vanderhye P.C.</u> <u>1100 North Glebe Road</u> <u>8th Floor</u></p> <p>City: <u>Arlington</u> State: <u>VA</u> Zip: <u>22201</u></p>	<p>6. Total number of applications & patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any <u>deficiency</u> in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.</p>
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DO NOT USE THIS SPACE

9. Statements and signature.
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.

<p><u>H. Warren Burnam, Jr.</u> Name of Person Signing Reg. No. 29,366</p>	<p><i>H. Warren Burnam, Jr.</i> Signature</p>	<p><u>October 21, 2003</u> Date</p>
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Total number of pages including **original** cover sheet, attachments, and document: [3]

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ASSIGNMENT

WHEREAS, Katsuhiro KIKUCHI, Ikuji KONISHI, Toshiyuki TANAKA,
Kanae SUENAGA

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements
in LIQUID CRYSTAL DISPLAY DEVICE

_____ for which the undersigned has (have):

- (a) filed an application for Letters Patent of the United States of America on
_____ having Serial No. _____; or
- (b) executed an application for Letters Patent of the United States of America on the
date(s) indicated below; and

WHEREAS, Sharp Kabushiki Kaisha of
22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522, 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 the Assignee the full and exclusive right to the said invention in the
United States of America and its territories and for all foreign countries, dependencies and
possessions and the entire right, title and interest in and to the application and 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 any 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 under 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 patent(s) to the Assignee and to vest all rights therein hereby conveyed to the 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 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 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 firm of NIXON & VANDERHYE P.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 United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

This Assignment has been executed by the undersigned on the date(s) indicated.

Date: October 16, 2003, Katsuhiko Kikuchi
Katsuhiko KIKUCHI

Date: October 16, 2003, Ikuji Konishi
Ikuji KONISHI

Date: October 16, 2003, Toshiyuki Tanaka
Toshiyuki TANAKA

Date: October 16, 2003, Kanae SUENAGA
Kanae SUENAGA

Date: _____, _____

Date: _____, _____