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Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

102591345

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

1. Name of conveying party(ies):

Akira SAKAI

Motohiro YAMAHARA

10-28-03

2. Name and address of receiving party(ies):

Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Nagaike-cho, Abeno-ku, Osaka-shi

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Assignment

☐ Change of Name

☐ Other

Execution Date:

October 23, 2003

City: Osaka

State/Country: Japan

Zip: 545-8522

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

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 23, 2003

A. Patent Application No(s).

(1) To be assigned

(2)

(3)

B. Patent No(s).

(1)

(2)

(3)

Additional numbers attached ☐ Yes ☒ No

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

Name: H. Warren Burnam, Jr.

Internal Address:

Street Address: Nixon & Vanderhye P.C.

1100 North Glebe Road

8th Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency 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.**

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.

H. Warren Burnam, Jr.

Name of Person Signing

Reg. No. 29,366

[Signature]

Signature

October 28, 2003

Date

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

[3]

10/30/2003 AOSMAN1 00000033 10694008

01 FC:8021

40.00 OP

Attorney Docket No. _____

ASSIGNMENTWHEREAS, **Akira SAKAI, Motohiro YAMAHARA**(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements
in DISPLAY APPARATUS

_____ 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 23, 2003, Akira Sakai
Akira SAKAI

Date: October 23, 2003, Motohiro Yamahara
Motohiro YAMAHARA

Date: _____, _____

Date: _____, _____

Date: _____, _____

Date: _____, _____