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

1. Name of conveying party(ies):

**Shinji Shimada**  
**Hiroshi Yoshikawa**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: **November 24, 1998**

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

Name: **Sharp Kabushiki Kaisha**

Address: **22-22, Nagaike-cho, Abeno-ku,**  
**Osaka, Japan**

City: \_\_\_\_\_ State/Prov.: \_\_\_\_\_

Country: \_\_\_\_\_ ZIP: \_\_\_\_\_

Additional name(s) &amp; address(es)

☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.

Filing date

B. Patent No.(s)

/ 09/164,172 /

September 30, 1998

12/02/1998 SSANDARA 00000004 041105 03164172

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Additional numbers

☐ Yes ☒ No

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

Name: **David G. Conlin**Registration No. **27,026**Address: **Dike, Bronstein, Roberts & Cushman, LLP****130 Water Street**City: **Boston**State/Prov.: **MA**Country: **USA**ZIP: **02109**

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ **40.00**☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

**04-1105**

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9. Statement 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.

**David G. Conlin****December 21, 1998**

Name of Person Signing

Signature

2

Date

Total number of pages including cover sheet, attachments, and

**PATENT**  
**REEL: 9668 FRAME: 0148**

1420/7859/001

ASSIGNMENT

We Shinji SHIMADA and Hiroshi YOSHIKAWA,

~~and~~ for good and valuable consideration from Sharp Kabushiki Kaisha, a Japanese corporation, having its principal place of business at 22-22, Nagaike-cho, Abeno-ku, Osaka, Japan, hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in, to and under an application for Letters Patent of the United States Serial No. 09/164,172 \* signed by us November 24, 1998 for Improvements in Liquid crystal display apparatus

including all priority rights ensuring therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said application and all patent rights therein, in the United States and in any country foreign thereto.

\* Where the application is assigned before it is filed, and hence has no Serial No., this shall be left blank.

IN WITNESS WHEREOF,

I, Shinji SHIMADA, hereunto set my hand and seal this 24th day of November, 1998

and Shinji Shimada  
(Shinji SHIMADA)  
I, Hiroshi YOSHIKAWA, hereunto set my hand and seal this 24th day of November, 1998.

Hiroshi yoshikawa  
(Hiroshi YOSHIKAWA)