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OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE  
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**

Noriko WATANABE

Execution Date(s) July 22, 2005Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**Name: SHARP KABUSHIKI KAISHA

Internal Address: \_\_\_\_\_

Street Address: 22-22, Nagaike-cho, Abeno-kuCity: Osaka-shiState: OsakaCountry: JAPAN Zip: 545-8522Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

HDESTA1 00000040 11189612

40.00 OP

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Joseph R. Keating, Esq.Internal Address: Keating & Bennett, LLPStreet Address: 10400 Eaton Place, Suite 312City: FairfaxState: VA Zip: 22030Phone Number: 703-385-5200Fax Number: 703-385-5080Email Address: mrhodes@kbiplaw.com**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☒ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**a. Credit Card Last 4 Numbers 5008  
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b. Deposit Account Number \_\_\_\_\_

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**9. Signature:**

Signature

07/26/05

Date

Joseph R. Keating (Registration Number 37,368)

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450PATENT  
REEL: 016820 FRAME: 0437

**ASSIGNMENT (WORLDWIDE)**

WHEREAS, I, (We), Noriko WATANABE

(hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled METHOD AND APPARATUS FOR FABRICATING LIQUID CRYSTAL DISPLAY DEVICE AND SUBSTRATE BASE MATERIAL FOR LIQUID CRYSTAL DISPLAY DEVICE

for which application for Letters Patent of the United States has been

X executed on even date herewith;  
\_\_\_\_\_ filed on \_\_\_\_\_ as Serial No. \_\_\_\_\_.

WHEREAS, Sharp Kabushiki Kaisha of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522, Japan (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to the said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted; and all Letters Patent and applications therefor through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Dated: July 22, 2005

Noriko Watanabe  
Noriko WATANABE