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

1. Name of conveying party(ies):

Martin David Tillin  
Michael John Towler

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

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

Name: Sharp Kabushiki Kaisha  
Street Address: 22-22 Nagaike-cho, Abeno-ku  
City: Osaka State: Japan ZIP: 545

Additional name(s) & address(es) attached?

Yes  No

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: August 19, 1997

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) 08/ 880,456

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Neil A. DuChes, Esq.  
Internal Address: RENNER, OTTO,  
BOISSELLE & SKLAR, P.L.L.  
Street Address: 1621 Euclid Ave., 19th Floor  
City: Cleveland State: Ohio ZIP: 44115

6. Total number of applications and patents involved:  1

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

Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number: \_\_\_\_\_

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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.

Neil A. DuChes

Name of Person Signing

Signature

November 5, 1997

Date

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

ASSIGNMENT

WHEREAS, The ASSIGNOR, comprising the following named inventor(s):

1. Martin David TILLIN; 11 Summer Fields, Abingdon, Oxfordshire OX14 2PG U.K.
2. Michael John TOWLER; 20 The Garth, Botley, Oxford OX2 9AL U.K.

has invented and owns a certain invention entitled:

LIQUID CRYSTAL DEVICES

for which application for Letters Patent of the United States was filed on June 24, 1997, and having Express Mail No. EH312926925US, and

WHEREAS, the ASSIGNEE:

SHARP KABUSHIKI KAISHA  
22-22, Nagaike-cho, Abeno-ku, Osaka 545 Japan

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 corresponding to 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 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.

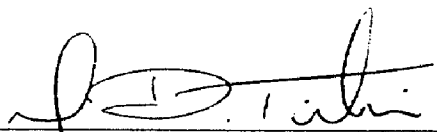
ASSIGNOR hereby covenants that no assignment sale

agreement charge or other encumbrance has been or will be 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.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seal

this 19th day of August, 1997.

1.   
\_\_\_\_\_  
(Martin David TILLIN)

2.   
\_\_\_\_\_  
(Michael John TOWLER)