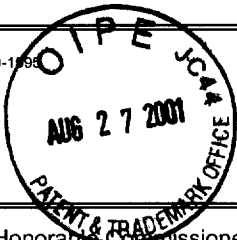


FORM PTO-109  
(Rev. 6-93)

09-04-2001



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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

OVER SHEET

ONLY

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

## 1. Name of conveying party(ies):

Yoshihiro OKADA  
Atsushi BAN

08/27/01

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

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

Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Nagaike-cho, Abeno-kuCity: Osaka State: JAPAN Zip: \_\_\_\_\_

Additional name(s) &amp; address(es) attached? [ ] yes [X] no

Please see attached.

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other:

Execution Date: April 12, 2001 and April 13, 2001

## 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) 09/821,717

B. Patent No.(s)

Additional numbers attached? ☐ Yes [X] No

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

Name: William J. Daley, Jr. (Reg. No: 35,487)Street Address: Dike, Bronstein, Roberts & Cushman  
Intellectual Property Practice Group of  
Edwards & Angell, LLP  
P. O. Box 9169City: Boston State: MA Zip: 02209

## 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: 04-1105  
(Attach duplicate copy of this page if paying by deposit account)

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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.

William J. Daley, Jr.  
Name of Person Signing

  
Signature

August 23, 2001  
Date

Total number of pages including cover sheet, attachments, and documents [ 3 ]

OMB No. 0651-0011 (exp. 4/94)

08/29/2001 BNGUYEN1 00000005 09821717  
04 FC 581 40.00 0P

# Assignment

SERIAL NO. \_\_\_\_\_

FILED March 29, 2001

*In consideration of* the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged,

Yoshihiro OKADA

Atsushi BAN

Insert Name(s)  
of Inventor(s)

(hereinafter designated as the undersigned) hereby sell(s) and assign(s) to

Insert Name  
of Assignee

SHARP KABUSHIKI KAISHA

Address of  
Assignee

of 22-22, Nagaike-cho, Abeno-ku, Osaka, JAPAN,

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee), the entire right, title and interest in the invention or improvements in

Title of  
Invention

ACTIVE MATRIX TYPE LIQUID CRYSTAL DISPLAY APPARATUS

for which an application for Letters Patent of the United States of America has been executed by the undersigned

Date of Signing  
of Application

on April 12 and 13, 2001

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 continuation, division or reissue thereof or letters patent 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 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 to the Assignee and to vest all rights therein hereby conveyed to said 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 to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said 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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Apr. 12, 2001, Name of Inventor Yoshitaka Okada  
(signature)

Date Apr. 13, 2001, Name of Inventor Atsushi Ban  
(signature)

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_  
(signature)

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_  
(signature)

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_  
(signature)

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_  
(signature)

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_  
(signature)

(This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed by at least two other persons who sign here.)

Witness Keiko Tanimoto

Witness Fyoko Hata

Witness \_\_\_\_\_

### ACKNOWLEDGMENT

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ }

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me  
personally appeared the above-named \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

to me personally known to be the individual(s) who executed the foregoing assignment, who did  
acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set  
forth.

Witness my hand and seal the day and year last above given.

(SEAL)

\_\_\_\_\_  
Official Signature

\_\_\_\_\_  
Official Title