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PATENTS ONLY

Our Ref.: 4034-18

Commissioner of Patents and Trademarks  
Box Assignment, Washington, D.C. 20231

12.26.02

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

1. Name of conveying party(ies):

Yutaka SAWAYAMA Sayuri FUJIWARA  
Kiyoshi MINOURA  
Ichiro IHARA  
Keji TANIGUCHI

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

Name: SHARP KABUSHIKI KAISHA  
Internal Address:  
Street Address: 22-22, Nagaike-cho, Abeno-ku, Osaka-

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

3. Nature of conveyance:

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

Execution Date: December 10, December 10, December  
10, December 6 and December 10,  
2002

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:

12/30/2002 RMEBRAHT 00000010 10327951

01 FC:8021

40.00 DP

December 10, December 10,  
December 10, December 6 And  
December 10, 2002

A. Patent Application No(s).

- (1)  
(2)  
(3)

B. Patent No(s).

- (1)  
(2)  
(3)

10327951

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  
8<sup>th</sup> 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.

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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

*H. Warren Burnam, Jr.*  
Signature

December 24, 2002

Date

Total number of pages including original cover sheet, attachments, and document: [3]

# ASSIGNMENT OF PATENT APPLICATION

(Inventors) Yutaka SAWAYAMA  
Kiyoshi MINOURA  
Ichiro IHARA  
Koji TANIGUCHI  
Sayuri FUJIWARA

(Assignee) In consideration of the sum of one dollar (\$1.00) and other good and valuable  
(Address) considerations paid to each of the undersigned, the undersigned agree(s) to assign,  
and hereby does assign, transfer and set over to  
Sharp Kabushiki Kaisha  
(of 22-22, Nagaichecho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan

(Title) (hereinafter designated as the Assignee) the undersigned's entire right, title and  
interest for the United States, its territories, dependencies and possessions in the  
invention, and all applications for patent and any Letters Patent which may be granted  
therefore, known as  
DISPLAY DEVICE INCLUDING CORNER CUBE ARRAY  
(Case No. 4034- )  
for which the undersigned has (have) executed on even date herewith an application  
for patent in the United States of America or, if not on even date, then has executed  
(on or has already filed in  
(U.S. appln. Serial No. , filed on ).  
The undersigned acknowledges an obligation of assignment of this invention to said  
assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the  
application or any interference which may be declared and any continuing or divisional applications  
thereof and also to execute separate assignments in connection with such applications as the Assignee  
may deem necessary or expedient and further to perform any act which may be necessary in connection  
with claims or provisions of the International Convention for 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.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any  
and all Letters Patent of the United States resulting from said application or any division or divisions or  
continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby  
covenants that he has (they have) 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.

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

Date <u>December 10, 2002</u>	Signature of inventor	( <u>Yutaka Sawayama</u> <b>Yutaka SAWAYAMA</b>
Date <u>December 10, 2002</u>	Signature of inventor	( <u>Kiyoshi Minoura</u> <b>Kiyoshi MINOURA</b>
Date <u>December 10, 2002</u>	Signature of inventor	( <u>Ichiro IHARA</u> <b>Ichiro IHARA</b>
Date <u>December 6, 2002</u>	Signature of inventor	( <u>Koji Taniguchi</u> <b>Koji TANIGUCHI</b>
Date <u>December 10, 2002</u>	Signature of inventor	( <u>Sayuri Fujiwara</u> <b>Sayuri FUJIWARA</b>
Date <u><del>December 10, 2002</del> <sup>SF</sup></u>	Signature of inventor	( <u><del>SF</del></u>
Date _____	Signature of inventor	( _____
Date _____	Signature of inventor	( _____

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_