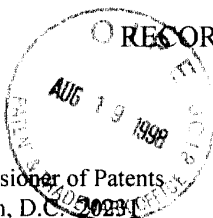


MRD
8-19-98



08-28-1998



Our Ref.: 829-460

Honorable Assistant Commissioner of Patents
Box Assignment, Washington, D.C. 20531

100808620

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

<p>1. Name of conveying party(ies): Junichiro Nakayama Kunio Kojima Kensuke Goto Yoshihiko Minamiyama Tadashi Une Yoshihiro Yamamoto Satoru Ariyoshi</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: 23 July 1998</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Sharp Kabushiki Kaisha Internal Address: _____ Street Address: 22-22, Nagaike-cho, Abeno-ku _____ _____ City: Osaka State/Country: Japan Zip: 545-8522</p> <p>Additional name/s & address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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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: _____

<p>A. Patent Application No(s). (1) 09/113,282 (2) (3)</p>	<p>B. Patent No(s). (1) (2) (3)</p>
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Additional numbers attached ☐ Yes ☒ No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: H. Warren Burnam, Jr. Internal Address: _____ Street Address: Nixon & Vanderhye P.C. 1100 North Glebe Road 8th Floor City: Arlington State: VA Zip: 22201</p>	<p>6. Total number of applications & patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$ 40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>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.</p>
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DO NOT USE THIS SPACE

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.

<p>H. Warren Burnam, Jr. Name of Person Signing Reg. No. 29,366</p>	<p><i>H. Warren Burnam, Jr.</i> Signature</p>	<p>August 19, 1998 Date</p>
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Total number of pages including original cover sheet, attachments, and document: [5]

ASSIGNMENT

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

1. Junichiro NAKAYAMA; 200-8, Yakuoji, Tawaramoto-cho, Shiki-gun, Nara-ken Japan
2. Kensuke GOTO; Raport Senzaikita A-206, 40-1, Senzai-cho, Tenri-shi, Nara-ken Japan
3. Tadashi UNE; 440-60, Byobu, Miyake-cho, Shiki-gun, Nara-ken Japan
4. Satoru ARIYOSHI; Mezon Okamura 202, 1-49-2, Miyuki-cho, Tajimi-shi, Gifu-ken Japan
5. Kunio KOJIMA; 4-145, Yurigaoka-nishi, Nabari-shi, Mie-ken Japan
6. Yoshihiko MINAMIYAMA; Raport Tenri 1034, 2613-1, Ichinomoto-cho, Tenri-shi, Nara-ken Japan
7. Yoshihiro YAMAMOTO; 6-3-19, Rokujo-nishi, Nara-shi, Nara-ken Japan

has invented and owns a certain invention entitled:

PLASMA ADDRESSING DISPLAY DEVICE
AND METHOD FOR PRODUCING THE SAME

for which application for Letters Patent of the United States was filed on July 10, 1998, and assigned Serial No. 09/113,282, and

WHEREAS, the ASSIGNEE:

SHARP KABUSHIKI KAISHA

22-22, Nagaike-cho, Abeno-ku, Osaka 545-8522 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 23rd day of July, 1998.

1. Junichiro Nakayama
(Junichiro NAKAYAMA)

2. Kensuke Goto
(Kensuke GOTO)

3. Tadashi Une
(Tadashi UNE)

4. Satoru Ariyoshi
(Satoru ARIYOSHI)

5. Kunio Kojima
(Kunio KOJIMA)

6. Yoshihiko Minamiyama
(Yoshihiko MINAMIYAMA)

Yoshihiro Yamamoto
Y. Yamamoto
(Yoshihiro YAMAMOTO)