

## PATENT ASSIGNMENT

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Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mitsuhiro MURATA</td> <td>03/28/2013</td> </tr> <tr> <td>Shoichi ISHIHARA</td> <td>03/28/2013</td> </tr> <tr> <td>Takehisa SAKURAI</td> <td>03/28/2013</td> </tr> <tr> <td>Shuichi KOZAKI</td> <td>03/25/2013</td> </tr> <tr> <td>Toshihiro MATSUMOTO</td> <td>03/28/2013</td> </tr> <tr> <td>Yosuke IWATA</td> <td>03/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	Mitsuhiro MURATA	03/28/2013	Shoichi ISHIHARA	03/28/2013	Takehisa SAKURAI	03/28/2013	Shuichi KOZAKI	03/25/2013	Toshihiro MATSUMOTO	03/28/2013	Yosuke IWATA	03/28/2013
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CORRESPONDENCE DATA															
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: ILS@nixonvan.com</p> <p>Correspondent Name: Nixon &amp; Vanderhye P.C.</p> <p>Address Line 1: 901 N. Glebe Road</p> <p>Address Line 2: Suite 1100</p> <p>Address Line 4: Arlington, VIRGINIA 22203</p>															
ATTORNEY DOCKET NUMBER:	4578-145														
NAME OF SUBMITTER:	H. Warren Burnam, Jr.														

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Signature:	/H. Warren Burnam, Jr./
Date:	04/15/2013
Total Attachments: 6 source=4578-145_Assignment#page1.tif source=4578-145_Assignment#page2.tif source=4578-145_Assignment#page3.tif source=4578-145_Assignment#page4.tif source=4578-145_Assignment#page5.tif source=4578-145_Assignment#page6.tif	

10R01279/US  
SP892 US

4578-145

# ASSIGNMENT OF PATENT APPLICATION

(Inventors) Mitsuhiro MURATA  
Shoichi ISHIHARA  
Takehisa SAKURAI  
Shuichi KOZAKI  
Toshihiro MATSUMOTO  
Yosuke IWATA

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) SHARP KABUSHIKI KAISHA  
(Address) of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka, Japan 545-8522  
(Other Countries) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest in the invention, and all application(s) for patent and any Letters Patent which may be granted therefor, known as  
(Title) LIQUID CRYSTAL DISPLAY DEVICE (Case No. 4578-145)  
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. \_\_\_\_\_ To be assigned, \_\_\_\_\_ 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 MAR. 28, 2013 Signature of inventor

Mitsuhiro Murata  
Mitsuhiro MURATA

Date \_\_\_\_\_ Signature of inventor

\_\_\_\_\_  
Shoichi ISHIHARA

Date MAR. 28, 2013 Signature of inventor

Takehisa Sakurai  
Takehisa SAKURAI

Date \_\_\_\_\_ Signature of inventor

\_\_\_\_\_  
Shuichi KOZAKI

Date MAR. 28, 2013 Signature of inventor

Toshihiro Matsumoto  
Toshihiro MATSUMOTO

Date MAR. 28, 2013 Signature of inventor

Yosuke Iwata  
Yosuke IWATA

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(Title) LIQUID CRYSTAL DISPLAY DEVICE (Case No. 4578-145)

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Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
Mitsuhiro MURATA

Date **WAR. 28. 2013** \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
*Shoichi Ishihara*  
Shoichi ISHIHARA

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
Takehisa SAKURAI

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
Shuichi KOZAKI

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Yosuke IWATA

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Mitsuhiko MURATA

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
Shoichi ISHIHARA

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
Takehisa SAKURAI

Date 25 Mar. 2013 Signature of inventor \_\_\_\_\_  
*Shuichi Kozaki*  
Shuichi KOZAKI

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
Toshihiro MATSUMOTO

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
Yosuke IWATA