

## PATENT ASSIGNMENT

Electronic Version v1.1

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>Eiji MATSUDA</td> <td>05/23/2013</td> </tr> <tr> <td>Yasushi SASAKI</td> <td>05/23/2013</td> </tr> <tr> <td>Yuhichiroh MURAKAMI</td> <td>05/23/2013</td> </tr> <tr> <td>Seijirou GYOUTEN</td> <td>05/23/2013</td> </tr> <tr> <td>Shuji NISHI</td> <td>05/23/2013</td> </tr> <tr> <td>Makoto YOKOYAMA</td> <td>05/23/2013</td> </tr> </tbody> </table>		Name	Execution Date	Eiji MATSUDA	05/23/2013	Yasushi SASAKI	05/23/2013	Yuhichiroh MURAKAMI	05/23/2013	Seijirou GYOUTEN	05/23/2013	Shuji NISHI	05/23/2013	Makoto YOKOYAMA	05/23/2013
Name	Execution Date														
Eiji MATSUDA	05/23/2013														
Yasushi SASAKI	05/23/2013														
Yuhichiroh MURAKAMI	05/23/2013														
Seijirou GYOUTEN	05/23/2013														
Shuji NISHI	05/23/2013														
Makoto YOKOYAMA	05/23/2013														
RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>SHARP KABUSHIKI KAISHA</td> </tr> <tr> <td>Street Address:</td> <td>22-22, Nagaïke-cho, Abeno-ku</td> </tr> <tr> <td>City:</td> <td>Osaka-shi, Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>545-8522</td> </tr> </table>		Name:	SHARP KABUSHIKI KAISHA	Street Address:	22-22, Nagaïke-cho, Abeno-ku	City:	Osaka-shi, Osaka	State/Country:	JAPAN	Postal Code:	545-8522				
Name:	SHARP KABUSHIKI KAISHA														
Street Address:	22-22, Nagaïke-cho, Abeno-ku														
City:	Osaka-shi, Osaka														
State/Country:	JAPAN														
Postal Code:	545-8522														
PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13993922</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13993922										
Property Type	Number														
Application Number:	13993922														
CORRESPONDENCE DATA															
Fax Number:	7035185499														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	7036841111														
Email:	bjhgroupp@ipfirm.com														
Correspondent Name:	LOWE HAUPTMAN HAM & BERNER, LLP														
Address Line 1:	2318 Mill Road														
Address Line 2:	Suite 1400														
Address Line 4:	ALEXANDRIA, VIRGINIA 22314														
ATTORNEY DOCKET NUMBER:	5376-012														

OP \$40.00 13993922

NAME OF SUBMITTER:	Benjamin J. Hauptman
Signature:	/Benjamin J. Hauptman/
Date:	06/13/2013
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif	

### ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- 1) Eiji MATSUDA
- 2) Yasushi SASAKI
- 3) Yuhichiroh MURAKAMI
- 4) Seijirou GYOUTEN
- 5) Shuji NISHI
- 6) Makoto YOKOYAMA

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

**SHARP KABUSHIKI KAISHA** having a place of business at **22-22, Nagaike-cho Abeno-ku Osaka-shi**  
**Osaka 545-8522 Japan**

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

**LIQUID CRYSTAL DISPLAY DEVICE AND METHOD FOR DRIVING SAME**

- (a) for which an application for United States Letters Patent was filed on 13 June 2013, and identified by United States Patent Application No. 13/993,922 ; or
- (b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) Eiji Matsuda  
Name: Eiji MATSUDA

May 23, 2013  
Date:

2) Yasushi Sasaki  
Name: Yasushi SASAKI

May 23, 2013  
Date:

3) Yuhichiroh Murakami  
Name: Yuhichiroh MURAKAMI

May 23, 2013  
Date:

4) Seijiro Gyouten  
Name: Seijifou GYOUTEN

May 23, 2013  
Date:

5) Shuji Nishi  
Name: Shuji NISHI

May 23, 2013  
Date:

6) Makoto Yokoyama  
Name: Makoto YOKOYAMA

May 23, 2013  
Date: