

## PATENT ASSIGNMENT

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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>Hajime IMAI</td> <td>12/16/2011</td> </tr> <tr> <td>Takuya WATANABE</td> <td>12/16/2011</td> </tr> <tr> <td>Atsuhito MURAI</td> <td>12/16/2011</td> </tr> <tr> <td>Hideki KITAGAWA</td> <td>12/16/2011</td> </tr> </tbody> </table>		Name	Execution Date	Hajime IMAI	12/16/2011	Takuya WATANABE	12/16/2011	Atsuhito MURAI	12/16/2011	Hideki KITAGAWA	12/16/2011
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<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, Osaka-shi</td> </tr> <tr> <td>City:</td> <td>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, Osaka-shi	City:	Osaka	State/Country:	JAPAN	Postal Code:	545-8522
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CORRESPONDENCE DATA											
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ATTORNEY DOCKET NUMBER:	87427.10R00077US										
NAME OF SUBMITTER:	Sayaka Karasawa										
Total Attachments: 2 source=10R00077US_Assignment#page1.tif source=10R00077US_Assignment#page2.tif											

OP \$40.00 13379783

**ASSIGNMENT**

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

**DISPLAY DEVICE**

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed a PCT International Application designating the United States on February 26, 2010, (PCT International Application No. PCT/JP2010/053074); and

WHEREAS, Sharp Kabushiki Kaisha, a corporation of Japan, whose post office address is 22-22, Nagaikicho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan, (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/WE, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Power of Attorney in this application, to insert here in parenthesis (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

<b>Full Name of Sole or First Assignor</b> Hajime IMAI	Assignor's Signature <i>Hajime Imai</i>	Date <i>December 16, 2011</i>
Address c/o Sharp Kabushiki Kaisha 22-22, Nagaikicho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan		Citizenship Japan
<b>Full Name of Second Assignor</b> Takuya WATANABE	Assignor's Signature <i>Takuya Watanabe</i>	Date <i>December 16, 2011</i>
Address c/o Sharp Kabushiki Kaisha 22-22, Nagaikicho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan		Citizenship Japan
Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

<b>Full Name of Third Assignor</b> Atsuhito MURAI	Assignor's Signature <i>Atsuhito Murai</i>	Date <i>December 16, 2011</i>
Address c/o Sharp Kabushiki Kaisha 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan		Citizenship Japan
<b>Full Name of Fourth Assignor</b> Hideki KITAGAWA	Assignor's Signature <i>Hideki Kitagawa</i>	Date <i>December 16, 2011</i>
Address c/o Sharp Kabushiki Kaisha 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan		Citizenship Japan