

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>Masao MORIGUCHI</td> <td>07/10/2012</td> </tr> <tr> <td>Yohsuke KANZAKI</td> <td>07/04/2012</td> </tr> <tr> <td>Tsuyoshi INOUE</td> <td>07/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Masao MORIGUCHI	07/10/2012	Yohsuke KANZAKI	07/04/2012	Tsuyoshi INOUE	07/04/2012
Name	Execution Date								
Masao MORIGUCHI	07/10/2012								
Yohsuke KANZAKI	07/04/2012								
Tsuyoshi INOUE	07/04/2012								
RECEIVING PARTY DATA									
Name:	Sharp Kabushiki Kaisha								
Street Address:	22-22, Nagaike-cho, Abeno-ku, Osaka-shi								
City:	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>13519563</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13519563				
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Application Number:	13519563								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	87427.10R01473US								
NAME OF SUBMITTER:	Sayaka Karasawa								
Total Attachments: 2 source=10R01473US_Assignment#page1.tif source=10R01473US_Assignment#page2.tif									

OP \$40.00 13519563

ASSIGNMENT

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

PHOTOSENSOR ELEMENT, PHOTOSENSOR CIRCUIT, THIN-FILM TRANSISTOR SUBSTRATE, AND DISPLAY PANEL

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 November 11, 2010, (PCT International Application No. PCT/IP2010/006634); and

WHEREAS, Sharp Kabushiki Kaisha, a corporation of Japan, whose post office address is 22-22, Nagaike-cho, 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).

Full Name of Sole or First Assignor Masao MORIGUCHI	Assignor's Signature <i>Masao Moriguchi</i>	Date July 10, 2012
Address c/o Sharp Kabushiki Kaisha 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan		Citizenship Japan
Full Name of Second Assignor Yohsuke KANZAKI	Assignor's Signature <i>Yohsuke Kanzaki</i>	Date July 4, 2012
Address c/o Sharp Kabushiki Kaisha 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan		Citizenship Japan
Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

ATTORNEY DOCKET NO.: 87427.10R01473US

Full Name of Third Assignor Tsuyoshi INOUE	Assignor's Signature <i>Tsuyoshi Inoue</i>	Date <i>July 4, 2012</i>
Address c/o Sharp Kabushiki Kaisha 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan		Citizenship Japan