

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>Masahiro YOSHIDA</td> <td>06/21/2012</td> </tr> <tr> <td>Isao OGASAWARA</td> <td>06/21/2012</td> </tr> <tr> <td>Satoshi HORIUCHI</td> <td>06/21/2012</td> </tr> <tr> <td>Takaharu YAMADA</td> <td>06/21/2012</td> </tr> <tr> <td>Shinya TANAKA</td> <td>06/21/2012</td> </tr> <tr> <td>Tetsuo KIKUCHI</td> <td>06/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Masahiro YOSHIDA	06/21/2012	Isao OGASAWARA	06/21/2012	Satoshi HORIUCHI	06/21/2012	Takaharu YAMADA	06/21/2012	Shinya TANAKA	06/21/2012	Tetsuo KIKUCHI	06/21/2012
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Application Number:	13521308														
CORRESPONDENCE DATA															
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OP \$40.00 13521308

NAME OF SUBMITTER:

Satoko Sakiyama

Total Attachments: 2

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ASSIGNMENT (WORLDWIDE)

WHEREAS, We, Masahiro YOSHIDA, Isao OGASAWARA, Satoshi HORIUCHI, Takaharu YAMADA, Shinya TANAKA and Tetsuo KIKUCHI (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **ARRAY SUBSTRATE AND LIQUID CRYSTAL DISPLAY PANEL** for which application for Letters Patent of the United States has been

_____ executed on even date herewith;
x filed on 07/10/2012 as Serial No. 13/521,308.

WHEREAS, **SHARP KABUSHIKI KAISHA, 22-22, Nagaïke-cho, Abeno-ku, Osaka-shi, Osaka 545-8522, Japan** (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefore;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of 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 the said invention and all Letters Patent of the United States to be obtained therefore 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; and all Letters Patent and applications therefore through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or 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.

Dated: <u>June 21, 2012</u>	<u>Masahiro Yoshida</u> Masahiro YOSHIDA
Dated: <u>June 21, 2012</u>	<u>Isao Ogasawara</u> Isao OGASAWARA
Dated: <u>June 21, 2012</u>	<u>Satoshi Horinuchi</u> Satoshi HORIUCHI

Dated: June 21, 2012

Takaharu Yamada
Takaharu YAMADA

Dated: June 21, 2012

Shinya Tanaka
Shinya TANAKA

Dated: June 21, 2012

Tetsuo Kikuchi
Tetsuo KIKUCHI