

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>Yuhichiroh MURAKAMI</td> <td>02/18/2013</td> </tr> <tr> <td>Yasushi SASAKI</td> <td>02/18/2013</td> </tr> <tr> <td>Etsuo YAMAMOTO</td> <td>02/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	Yuhichiroh MURAKAMI	02/18/2013	Yasushi SASAKI	02/18/2013	Etsuo YAMAMOTO	02/18/2013
Name	Execution Date								
Yuhichiroh MURAKAMI	02/18/2013								
Yasushi SASAKI	02/18/2013								
Etsuo YAMAMOTO	02/18/2013								
RECEIVING PARTY DATA									
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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>13819043</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13819043				
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Total Attachments: 1 source=70404-1404-Client-20130222-Signed_Assigment#page1.tif									

OP \$40.00 13819043

PATENT

ASSIGNMENT (WORLDWIDE)

WHEREAS, We, Yuhichiroh MURAKAMI, Yasushi SASAKI and Etsuo YAMAMOTO (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **SIGNAL PROCESSING CIRCUIT, INVERTER CIRCUIT, BUFFER CIRCUIT, DRIVER CIRCUIT, LEVEL SHIFTER, AND DISPLAY DEVICE** for which application for Letters Patent of the United States has been

 x executed on even date herewith;
 filed on _____ as Serial No. _____.

WHEREAS, **SHARP KABUSHIKI KAISHA, 22-22, Nagaike-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: Feb. 18, 2013

Yuhichiroh Murakami
Yuhichiroh MURAKAMI

Dated: Feb. 18, 2013

Yasushi Sasaki
Yasushi SASAKI

Dated: Feb. 18, 2013

Etsuo Yamamoto
Etsuo YAMAMOTO