

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>Tetsuo KIKUCHI</td> <td>08/29/2012</td> </tr> <tr> <td>Shinya TANAKA</td> <td>08/29/2012</td> </tr> <tr> <td>Junya SHIMADA</td> <td>08/31/2012</td> </tr> <tr> <td>Chikao YAMASAKI</td> <td>09/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tetsuo KIKUCHI	08/29/2012	Shinya TANAKA	08/29/2012	Junya SHIMADA	08/31/2012	Chikao YAMASAKI	09/05/2012
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CORRESPONDENCE DATA											
<p>Fax Number: 5713137421 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 571-313-7440 Email: mrhodes@kbiplaw.com Correspondent Name: Keating & Bennett, LLP Address Line 1: 1800 Alexander Bell Dr. Address Line 2: Suite 200 Address Line 4: Reston, VIRGINIA 20191</p>											
ATTORNEY DOCKET NUMBER:	70404.1235/SH										
NAME OF SUBMITTER:	Michelle Rhodes										
<p>Total Attachments: 1 source=70404-1235-PTO-20120926-Signed_Assignment#page1.tif</p>											

OP \$40.00 13637367

ASSIGNMENT (WORLDWIDE)

WHEREAS, We, Tetsuo KIKUCHI, Shinya TANAKA, Junya SHIMADA and Chikao YAMASAKI (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **SHIFT REGISTER** for which application for Letters Patent of the United States has been

_____ executed on even date herewith;
X filed on January 6, 2011 as Serial No. PCT/JP2011/50088.

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: <u>29/August/2012</u>	<u>Tetsuo Kikuchi</u> Tetsuo KIKUCHI
Dated: <u>29/August/2012</u>	<u>Shinya Tanaka</u> Shinya TANAKA
Dated: <u>31/August/2012</u>	<u>Junya Shimada</u> Junya SHIMADA
Dated: <u>5/September/2012</u>	<u>Chikao Yamasaki</u> Chikao YAMASAKI