

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>Takahiro OCHIAI</td> <td>11/18/2011</td> </tr> <tr> <td>Mitsuru GOTO</td> <td>11/18/2011</td> </tr> <tr> <td>Hiroyuki HIGASHIJIMA</td> <td>11/25/2011</td> </tr> <tr> <td>Yoshihiro KOTANI</td> <td>11/21/2011</td> </tr> <tr> <td>Shuuichirou MATSUMOTO</td> <td>11/21/2011</td> </tr> </tbody> </table>		Name	Execution Date	Takahiro OCHIAI	11/18/2011	Mitsuru GOTO	11/18/2011	Hiroyuki HIGASHIJIMA	11/25/2011	Yoshihiro KOTANI	11/21/2011	Shuuichirou MATSUMOTO	11/21/2011
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<table border="1"> <tr> <td>Name:</td> <td>Hitachi Displays, Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>3300, Hayano, Mobara-shi,</td> </tr> <tr> <td>City:</td> <td>Chiba</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	Hitachi Displays, Ltd.	Street Address:	3300, Hayano, Mobara-shi,	City:	Chiba	State/Country:	JAPAN				
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CORRESPONDENCE DATA													
<p>Fax Number: (703)312-6666</p> <p>Phone: 703-312-6600</p> <p>Email: svannarath@antonelli.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP</p> <p>Address Line 1: 1300 NORTH SEVENTEENTH STREET</p> <p>Address Line 2: SUITE 1800</p> <p>Address Line 4: ARLINGTON, VIRGINIA 22209-3873</p>													
ATTORNEY DOCKET NUMBER:	1497.52150X00												
NAME OF SUBMITTER:	Melvin Kraus												
<p>Total Attachments: 1</p> <p>source=52150X00ASN#page1.tif</p>													

OP \$40.00 13334280

ASSIGNMENT
(譲渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi Displays, Ltd.,
a corporation organized under the laws of Japan,
located at 3300, Hayano, Mobara-shi, Chiba, Japan
receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi Displays, Ltd.,
its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

BIDIRECTIONAL SHIFT REGISTER AND IMAGE DISPLAY DEVICE USING THE SAME

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted,
to be held and enjoyed by said Hitachi Displays, Ltd.,
its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Displays, Ltd.,

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)
(発明者フルネームサイン)

Date Signed
(署名日)

1) <u>Takakuro Ochiai</u>	<u>Nov. 18, 2011</u>
2) <u>Mitsum Goto</u>	<u>Nov. 18, 2011</u>
3) <u>Hiroaki Higashijima</u>	<u>Nov. 25, 2011</u>
4) <u>Yoshihiro Kotani</u>	<u>Nov. 21, 2011</u>
5) <u>Shuichirou Matsumoto</u>	<u>Nov. 21, 2011</u>
6) _____	_____
7) _____	_____
8) _____	_____
9) _____	_____
10) _____	_____