

PATENT ASSIGNMENT COVER SHEET

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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>Jun Koyama</td> <td>08/03/2001</td> </tr> <tr> <td>Shunpei Yamazaki</td> <td>08/04/2001</td> </tr> </tbody> </table> | | Name | Execution Date | Jun Koyama | 08/03/2001 | Shunpei Yamazaki | 08/04/2001 |
| Name | Execution Date | | | | | | |
| Jun Koyama | 08/03/2001 | | | | | | |
| Shunpei Yamazaki | 08/04/2001 | | | | | | |
| RECEIVING PARTY DATA | | | | | | | |
| Name: | SEMICONDUCTOR ENERGY LABORATORY CO., LTD. | | | | | | |
| Street Address: | 398, HASE | | | | | | |
| City: | ATSUGI-SHI, KANAGAWA-KEN | | | | | | |
| State/Country: | JAPAN | | | | | | |
| Postal Code: | 243-0036 | | | | | | |
| 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>13936360</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13936360 | | |
| Property Type | Number | | | | | | |
| Application Number: | 13936360 | | | | | | |
| CORRESPONDENCE DATA | | | | | | | |
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| Phone: | (202) 783-5070 | | | | | | |
| Email: | apsi@fr.com | | | | | | |
| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | | | | | | | |
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| Address Line 2: | P.O.BOX 1022 | | | | | | |
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| NAME OF SUBMITTER: | APRIL K. SAUNDERS-FULLER | | | | | | |
| Signature: | /April K. Saunders-Fuller/ | | | | | | |
| Date: | 01/02/2014 | | | | | | |
| Total Attachments: 1 source=12732-0071004-ASN1#page1.tif | | | | | | | |

ASSIGNMENT

For valuable consideration, We, Jun KOYAMA of Atsugi, Kanagawa, Japan and Shunpei YAMAZAKI of Setagaya, Tokyo, Japan hereby assign to Semiconductor Energy Laboratory Co., Ltd., a Japanese corporation having a place of business at:

398, Hase, Atsugi-shi, Kanagawa-ken 243-0036 Japan

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvement, which are subject of an application for United States Patent signed by us this day, entitled LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF DRIVING THE SAME filed on 07/08/13, and assigned U.S. Serial Number 13/936,360, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Signature: Jun Koyama
Name: Jun KOYAMA
Date: 08/03/2001

Signature: Shunpei Yamazaki
Name: Shunpei YAMAZAKI
Date: 08/04/2001

RECORDED: 08/17/2001

RECORDED: 01/02/2014

PATENT
REEL: 012081 FRAME: 0693
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