

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>Jun Koyama</td> <td>12/13/2011</td> </tr> <tr> <td>Shunpei Yamazaki</td> <td>12/13/2011</td> </tr> </tbody> </table>		Name	Execution Date	Jun Koyama	12/13/2011	Shunpei Yamazaki	12/13/2011				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Semiconductor Energy Laboratory Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>398, Hase</td> </tr> <tr> <td>City:</td> <td>Atsugi-shi, Kanagawa-ken</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>243-0036</td> </tr> </table>		Name:	Semiconductor Energy Laboratory Co., Ltd.	Street Address:	398, Hase	City:	Atsugi-shi, Kanagawa-ken	State/Country:	JAPAN	Postal Code:	243-0036
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (877)769-7945 Phone: (202) 783-5070 Email: apsi@fr.com <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: John F. Hayden Address Line 1: FISH & RICHARDSON P.C. Address Line 2: P.O.BOX 1022 Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022</p>											
ATTORNEY DOCKET NUMBER:	12732-0989001										
NAME OF SUBMITTER:	April K. Saunders-Fuller										
Total Attachments: 1 source=12732-0989001-ASN#page1.tif											

CH \$40.00 13336335

ASSIGNMENT

For valuable consideration, We, Jun KOYAMA of Sagamihara, 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 improvements which are subject of an application for United States Patent signed by us this day, entitled SEMICONDUCTOR DEVICE AND SEMICONDUCTOR MEMORY DEVICE, filed 12/23/2011, and assigned U.S. Serial Number 13/336,335, 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

Name:

Date:

Jun Koyama
Jun KOYAMA
12/13/2011

Signature

Name:

Date:

Shunpei Yamazaki
Shunpei YAMAZAKI
12/13/2011