

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>Masashi Fujita</td> <td>04/12/2012</td> </tr> <tr> <td>Yutaka Shionoiri</td> <td>04/12/2012</td> </tr> <tr> <td>Kiyoshi Kato</td> <td>04/12/2012</td> </tr> <tr> <td>Hidetomo Kobayashi</td> <td>04/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	Masashi Fujita	04/12/2012	Yutaka Shionoiri	04/12/2012	Kiyoshi Kato	04/12/2012	Hidetomo Kobayashi	04/12/2012
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Kiyoshi Kato	04/12/2012										
Hidetomo Kobayashi	04/12/2012										
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>13469143</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13469143						
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Application Number:	13469143										
CORRESPONDENCE DATA											
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>											
Correspondent Name:	John F. Hayden										
Address Line 1:	FISH & RICHARDSON P.C.										
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ATTORNEY DOCKET NUMBER:	12732-1044001										
NAME OF SUBMITTER:	April K. Saunders-Fuller										
Total Attachments: 2 source=12732-1044001-ASN#page1.tif source=12732-1044001-ASN#page2.tif											

CH \$40.00 13469143

ASSIGNMENT

For valuable consideration, We, Masashi FUJITA of Machida, Tokyo, Japan, Yutaka SHIONOIRI of Isehara, Kanagawa, Japan, Kiyoshi KATO of Atsugi, Kanagawa, Japan and Hidetomo KOBAYASHI of Isehara, Kanagawa, 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, filed May 11, 2012, and assigned U.S. Serial Number 13/469,143, 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 Masashi Fujita
Name: Masashi FUJITA
Date: 04 / 12 / 2012

Signature Yutaka SHIONOIRI
Name: Yutaka SHIONOIRI
Date: 04 / 12 / 2012

Signature Kiyoshi Kato
Name: Kiyoshi KATO
Date: 04/12/2012

Signature Hidetomo KOBAYASHI
Name: Hidetomo KOBAYASHI
Date: 04/12/2012