

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Toshihiko Takeuchi</td> <td>04/01/2013</td> </tr> <tr> <td>Kosei Noda</td> <td>04/01/2013</td> </tr> </tbody> </table>		Name	Execution Date	Toshihiko Takeuchi	04/01/2013	Kosei Noda	04/01/2013
Name	Execution Date						
Toshihiko Takeuchi	04/01/2013						
Kosei Noda	04/01/2013						
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>13803022</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13803022		
Property Type	Number						
Application Number:	13803022						
CORRESPONDENCE DATA							
Fax Number:	8777697945						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	(202) 783-5070						
Email:	apsi@fr.com						
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						
ATTORNEY DOCKET NUMBER:	12732-1163001						
NAME OF SUBMITTER:	April K. Saunders-Fuller						
Signature:	/April K. Saunders-Fuller/						
Date:	05/14/2013						
Total Attachments: 1 source=12732-1163001-ASN#page1.tif							

CH \$40.00 13803022

## ASSIGNMENT

For valuable consideration, We, Toshihiko TAKEUCHI of Atsugi, Kanagawa, Japan and Kosei NODA of Atsugi, 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 ELEMENT, SEMICONDUCTOR DEVICE, AND MANUFACTURING METHOD OF SEMICONDUCTOR ELEMENT, filed March 14, 2013, and assigned U.S. Serial Number 13/803,022, 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 Toshihiko TAKEUCHI  
Name: Toshihiko TAKEUCHI  
Date: 04/01/2013

Signature Kosei Noda  
Name: Kosei NODA  
Date: 04/01/2013