

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Shunpei Yamazaki	08/27/2013
Hiroyuki Miyake	08/27/2013
Hideaki Shishido	08/27/2013
Jun Koyama	08/27/2013
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<b>Name:</b>	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.
<b>Street Address:</b>	398, HASE
<b>City:</b>	ATSUGI-SHI, KANAGAWA-KEN
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	243-0036
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16248978
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<b>SIGNATURE:</b>	/Sharon M. Allen/
<b>DATE SIGNED:</b>	01/17/2019
<b>Total Attachments: 2</b>	
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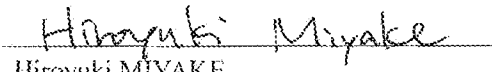
**ASSIGNMENT**

For valuable consideration, We, Shunpei YAMAZAKI of Setagaya, Tokyo, Japan, Hiroyuki MIYAKE of Atsugi, Kanagawa, Japan, Hideaki SHISHIDO of Atsugi, Kanagawa, Japan and Jun KOYAMA of Sagami-hara, 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 09/10/2013, and assigned U.S. Serial Number 14/023,295, 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: Shunpei YAMAZAKI  
Date: 08/29/2013

Signature   
Name: Hiroyuki MIYAKE  
Date: 08/29/2013

Signature Hideaki SHISHIDO  
Name: Hideaki SHISHIDO  
Date: 08/27/2013

Signature Jun Koyama  
Name: Jun KOYAMA  
Date: 08/27/2013