

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Masashi Tsubuku	06/08/2011
Takayuki Inoue	06/08/2011
Suzunosuke Hiraishi	06/08/2011
Erumu Kikuchi	06/08/2011
Hiromichi Godo	06/08/2011
Shuhei Yoshitomi	06/08/2011
Koki Inoue	06/08/2011
Akiharu Miyanaga	06/06/2011
Shunpei Yamazaki	05/31/2011

**RECEIVING PARTY DATA**

<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

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	13164296

**CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:

12732-0884001

NAME OF SUBMITTER:

April K. Saunders-Fuller

Total Attachments: 2

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## ASSIGNMENT

For valuable consideration, We, Masashi TSUBUKU of Atsugi, Kanagawa, Japan, Takayuki INOUE of Isehara, Kanagawa, Japan, Suzunosuke HIRAISHI of Atsugi, Kanagawa, Japan, Erumu KIKUCHI of Atsugi, Kanagawa, Japan, Hiromichi GODO of Isehara, Kanagawa, Japan, Shuhei YOSHITOMI of Ayase, Kanagawa, Japan, Koki INOUE of Atsugi, Kanagawa, Japan, Akiharu MIYANAGA of Tochigi, Tochigi, 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 TRANSISTOR AND SEMICONDUCTOR DEVICE, filed June 20, 2011, and assigned U.S. Serial Number 13/164,296, 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 Tsubuku  
Name: Masashi TSUBUKU  
Date: 06/08/2011

Signature Takayuki Inoue  
Name: Takayuki INOUE  
Date: 06/08/2011

Signature Suzunosuke Hirai shi  
Name: Suzunosuke HIRAISHI  
Date: 06/08/2011

Signature Erumu Kikuchi  
Name: Erumu KIKUCHI  
Date: 06/08/2011

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Name: Shuhei YOSHITOMI  
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Signature Akiharu Miyanaga  
Name: Akiharu MIYANAGA  
Date: 06/06/2011

Signature Shunpei Yamazaki  
Name: Shunpei YAMAZAKI  
Date: 05/31/2011