

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Takeshi Aoki	10/17/2011
Yoshiyuki Kurokawa	10/19/2011
Takayuki Ikeda	10/18/2011
Hikaru Tamura	10/18/2011
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	
Property Type	Number
Application Number:	13224655
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Total Attachments: 1 source=12732-0946001-ASN#page1.tif	

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ASSIGNMENT

For valuable consideration, We, Takeshi AOKI of Atsugi, Kanagawa, Japan, Yoshiyuki KUROKAWA of Sagami-hara, Kanagawa, Japan, Takayuki IKEDA of Atsugi, Kanagawa, Japan and Hikaru TAMURA of Zama, 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 ELECTRONIC DEVICE, filed September 2, 2011, and assigned U.S. Serial Number 13/224,655, 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 Takeshi AOKI
Name: Takeshi AOKI
Date: 10 / 17 / 2011

Signature Yoshiyuki Kurokawa
Name: Yoshiyuki KUROKAWA
Date: Yoshiyuki Kurokawa 10/19/2011

Signature Takayuki Ikeda
Name: Takayuki IKEDA
Date: 10 / 18 / 2011

Signatur Hikaru Tamura
Name: Hikaru TAMURA
Date: 10/18/2011