

PATENT ASSIGNMENT COVER SHEET

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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>Yasushi Kitano</td> <td>10/16/2013</td> </tr> <tr> <td>Hiroshi Kadoma</td> <td>10/21/2013</td> </tr> <tr> <td>Satoko Shitagaki</td> <td>10/28/2013</td> </tr> <tr> <td>Satoshi Seo</td> <td>10/18/2013</td> </tr> <tr> <td>Hiromi Seo</td> <td>10/24/2013</td> </tr> <tr> <td>Tatsuyoshi Takahashi</td> <td>10/21/2013</td> </tr> </tbody> </table>		Name	Execution Date	Yasushi Kitano	10/16/2013	Hiroshi Kadoma	10/21/2013	Satoko Shitagaki	10/28/2013	Satoshi Seo	10/18/2013	Hiromi Seo	10/24/2013	Tatsuyoshi Takahashi	10/21/2013
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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>14068319</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14068319										
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Application Number:	14068319														
CORRESPONDENCE DATA															
Fax Number:	(877)769-7945														
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>															
Correspondent Name:	JOHN F. HAYDEN														
Address Line 1:	FISH & RICHARDSON P.C.														
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ATTORNEY DOCKET NUMBER:	12732-1257001														

NAME OF SUBMITTER:	APRIL K. SAUNDERS-FULLER
Signature:	/April K. Saunders-Fuller/
Date:	11/07/2013
Total Attachments: 2 source=12732-1257001-ASN#page1.tif source=12732-1257001-ASN#page2.tif	

ASSIGNMENT

For valuable consideration, We, Yasushi KITANO of Atsugi, Kanagawa, Japan, Hiroshi KADOMA of Sagamihara, Kanagawa, Japan, Satoko SHITAGAKI of Isehara, Kanagawa, Japan, Satoshi SEO of Sagamihara, Kanagawa, Japan, Hiromi SEO of Sagamihara, Kanagawa, Japan and Tatsuyoshi TAKAHASHI 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 HETEROCYCLIC COMPOUND, LIGHT-EMITTING ELEMENT, LIGHT-EMITTING DEVICE, ELECTRONIC DEVICE, AND LIGHTING DEVICE, filed October 31, 2013, and assigned U.S. Serial Number 14/068,319, 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 Yasushi Kitano
Name: Yasushi KITANO
Date: 10/16/2013

Signature Hiroshi KADOMA
Name: Hiroshi KADOMA
Date: 10/21/2013

Signature Satoko Shitagaki
Name: Satoko SHITAGAKI
Date: 10/28/2013

Signature Satoshi Seo
Name: Satoshi SEO
Date: 10/18/2013

Signature Hiromi Seo
Name: Hiromi SEO
Date: 10/24/2013

Signature Tatsuyoshi Takahashi
Name: Tatsuyoshi TAKAHASHI
Date: 10/21/2013