

## PATENT ASSIGNMENT

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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>Hiroshi Kadoma</td> <td>03/12/2013</td> </tr> <tr> <td>Takahiro Ushikubo</td> <td>02/28/2013</td> </tr> <tr> <td>Satoshi Seo</td> <td>03/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	Hiroshi Kadoma	03/12/2013	Takahiro Ushikubo	02/28/2013	Satoshi Seo	03/12/2013				
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<table border="1"> <tr> <td>Name:</td> <td>Semiconductor Energy Laboratory Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>398, Hase</td> </tr> <tr> <td>Internal Address:</td> <td>Atsugi-shi</td> </tr> <tr> <td>City:</td> <td>Kanagawa-ken</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>243-0036</td> </tr> </table>		Name:	Semiconductor Energy Laboratory Co., Ltd.	Street Address:	398, Hase	Internal Address:	Atsugi-shi	City:	Kanagawa-ken	State/Country:	JAPAN	Postal Code:	243-0036
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CORRESPONDENCE DATA													
<p>Fax Number: 312-655-15  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 312-655-1500        Email: lfdocket@welshkatz.com        Correspondent Name: Husch Blackwell LLP Husch Blackwell Sand        Address Line 1: 120 S RIVERSIDE PLAZA        Address Line 2: 22ND FLOOR        Address Line 4: CHICAGO, ILLINOIS 60606</p>													
ATTORNEY DOCKET NUMBER:	0553-1073												
NAME OF SUBMITTER:	Mark J. Murphy												
Signature:	/Mark J. Murphy/												
Date:	05/16/2013												
Total Attachments: 1 source=Assignment#page1.tif													

CH \$40.00 13767007

PATENT

## ASSIGNMENT

**Identity Of The Patent Application.** I am the inventor (or one joint inventor) of a patent application that I am assigning. The patent application I am assigning is entitled

BIPYRIDINE COMPOUND, LIGHT-EMITTING ELEMENT MATERIAL, ORGANIC SEMICONDUCTOR MATERIAL, LIGHT-EMITTING ELEMENT, DISPLAY MODULE, LIGHTING MODULE, LIGHT-EMITTING DEVICE, LIGHTING DEVICE, DISPLAY DEVICE AND ELECTRONIC DEVICE

which I executed herewith. If the patent application has already been filed, it received serial number 13/767,007 and bears a filing date of February 14, 2013.

***The Assignee and The Assignment.*** I assign my patent rights to Semiconductor Energy Laboratory Co., Ltd., a corporation organized according to the laws of Japan, having a place of business at 398, Hase, Atsugi-shi, Kanagawa-ken, 243-0036 Japan (hereinafter "the Assignee"). The rights I assign are my entire right, title and interest in the invention or improvements disclosed in the patent application and any and all other applications for United States Letters Patent which I may file, either solely or jointly with others, on the invention or improvements, including all continuations, divisionals, and continuations-in-part, and in any and all United States Letters Patent which may be obtained on any of said applications, and in any reissue or extension thereof. I also assign to the Assignee all priority rights under the International Convention. I agree to execute, at the request of the Assignee, all documents in connection with any application for United States letters patent therefor.

**Payment Received.** I am making this assignment in consideration of One Dollar and other good and valuable consideration. I acknowledge the receipt and sufficiency of the consideration.

**Authorizations.** I request the U.S. Commissioner of Patents and Trademarks to issue the Letters Patent to the Assignee. I authorize the attorney(s) of record in the application to insert in this assignment document the date and serial number of the application.

**Further Acts.** I agree, upon the request and at the expense of the Assignee, to execute any divisional, continuation or substitute application for the invention or improvements, and any oath, declaration or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon the application. I agree to perform, upon request, any affirmative acts to obtain said Letters Patent of the United States and to vest in the Assignee all rights therein, so that the Letters Patent will be held and enjoyed by the Assignee, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me if this assignment had not been made.

**Interference.** In the event that any application or Letters Patent that I now assign becomes involved in interference, I agree to cooperate to the best of my ability in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof.

Hiroshi Kadoma

Name: Hiroshi KADOMA

03/12/2023

Date \_\_\_\_\_

Takahiro Ushitubo

Name: Takahiro USHIKUBO

02/28/2013

Date \_\_\_\_\_

Satoshi Seo

Name: Satoshi SEO

03/12/2013

Date \_\_\_\_\_

## PATENT