

## 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>TAKESHI AOKI</td> <td>01/15/2014</td> </tr> <tr> <td>TAKAYUKI IKEDA</td> <td>01/15/2014</td> </tr> <tr> <td>YOSHIYUKI KUROKAWA</td> <td>01/15/2014</td> </tr> <tr> <td>MUNEHIRO KOZUMA</td> <td>01/15/2014</td> </tr> </tbody> </table> |   | Name          | Execution Date | TAKESHI AOKI        | 01/15/2014 | TAKAYUKI IKEDA | 01/15/2014 | YOSHIYUKI KUROKAWA | 01/15/2014 | MUNEHIRO KOZUMA | 01/15/2014 |
| Name  | Execution Date                            |               |                |                     |            |                |            |                    |            |                 |            |
| TAKESHI AOKI  | 01/15/2014                                |               |                |                     |            |                |            |                    |            |                 |            |
| TAKAYUKI IKEDA  | 01/15/2014                                |               |                |                     |            |                |            |                    |            |                 |            |
| YOSHIYUKI KUROKAWA  | 01/15/2014                                |               |                |                     |            |                |            |                    |            |                 |            |
| MUNEHIRO KOZUMA   | 01/15/2014                                |               |                |                     |            |                |            |                    |            |                 |            |
| 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>14166936</td> </tr> </tbody> </table>   |   | Property Type | Number         | Application Number: | 14166936   |                |            |                    |            |                 |            |
| Property Type   | Number                                    |               |                |                     |            |                |            |                    |            |                 |            |
| Application Number:   | 14166936                                  |               |                |                     |            |                |            |                    |            |                 |            |
| CORRESPONDENCE DATA   |   |               |                |                     |            |                |            |                    |            |                 |            |
| Fax Number:   | (877)769-7945                             |               |                |                     |            |                |            |                    |            |                 |            |
| Phone:  | (202) 783-5070                            |               |                |                     |            |                |            |                    |            |                 |            |
| Email:  | apsi@fr.com                               |               |                |                     |            |                |            |                    |            |                 |            |
| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>  |   |               |                |                     |            |                |            |                    |            |                 |            |
| Correspondent Name:   | JOHN F. HAYDEN                            |               |                |                     |            |                |            |                    |            |                 |            |
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| ATTORNEY DOCKET NUMBER:   | 12732-1275001                             |               |                |                     |            |                |            |                    |            |                 |            |
| NAME OF SUBMITTER:  | APRIL K. SAUNDERS-FULLER                  |               |                |                     |            |                |            |                    |            |                 |            |

|  |                            |
|--|----------------------------|
| Signature:   | /April K. Saunders-Fuller/ |
| Date:  | 01/30/2014                 |
| Total Attachments: 2<br>source=12732-1275001-ASN#page1.tif<br>source=12732-1275001-ASN#page2.tif |                            |

## ASSIGNMENT

For valuable consideration, We, Takeshi AOKI of Atsugi, Kanagawa, Japan, Takayuki IKEDA of Atsugi, Kanagawa, Japan, Yoshiyuki KUROKAWA of Sagamihara, Kanagawa, Japan and Munehiro KOZUMA of Isehara, 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 PROGRAMMABLE LOGIC DEVICE AND SEMICONDUCTOR DEVICE, filed January 29, 2014, and assigned U.S. Serial Number 14/166,936, 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: 01/15/2014

Signature Takayuki Ikeda  
Name: Takayuki IKEDA  
Date: 01/15/2014

Signature Yoshiyuki Kurokawa  
Name: Yoshiyuki KUROKAWA  
Date: 01/15/2014

Signature Munehiro Kozuma  
Name: Munehiro KOZUMA  
Date: 01/15/2014