

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>Yoshiyuki Kurokawa</td> <td>05/13/2013</td> </tr> <tr> <td>Takayuki Ikeda</td> <td>05/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	Yoshiyuki Kurokawa	05/13/2013	Takayuki Ikeda	05/15/2013
Name	Execution Date						
Yoshiyuki Kurokawa	05/13/2013						
Takayuki Ikeda	05/15/2013						
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>13901644</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13901644		
Property Type	Number						
Application Number:	13901644						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	April K. Saunders-Fuller						
Signature:	/April K. Saunders-Fuller/						
Date:	05/31/2013						
Total Attachments: 1 source=12732-1209001-ASN#page1.tif							

CH \$40.00 13901644

ASSIGNMENT

For valuable consideration, We, Yoshiyuki KUROKAWA of Sagami-hara, Kanagawa, Japan and Takayuki IKEDA 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 PROGRAMMABLE LOGIC DEVICE, filed May 24, 2013, and assigned U.S. Serial Number 13/901,644, 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 Yoshiyuki Kurokawa
Name: Yoshiyuki KUROKAWA
Date: 05/13/2013

Signature Takayuki Ikeda
Name: Takayuki IKEDA
Date: 05/15/2013