

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Susumu KAWASHIMA	04/03/2020
Koji Kusunoki	04/03/2020
Kei Takahashi	04/02/2020
Shunpei YAMAZAKI	04/02/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SEMICONDUCTOR ENERGY LABORATORY CO., LTD.
<b>Street Address:</b>	398, HASE
<b>City:</b>	ATSUGI-SHI, KANAGAWA-KEN
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	243-0036
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17976919
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
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<b>Phone:</b>	(202) 783-5070
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<b>Correspondent Name:</b>	JOHN F. HAYDEN
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
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<b>ATTORNEY DOCKET NUMBER:</b>	12732-2012002
<b>NAME OF SUBMITTER:</b>	SHARON M. ALLEN
<b>SIGNATURE:</b>	/Sharon M. Allen/
<b>DATE SIGNED:</b>	10/31/2022
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

For valuable consideration, We, Susumu KAWASHIMA of Atsugi, Kanagawa, Japan, Koji KUSUNOKI of Isehara, Kanagawa, Japan, Kei TAKAHASHI of Isehara, Kanagawa, Japan and Shunpei YAMAZAKI of Setagaya, Tokyo, Japan hereby assign to Semiconductor Energy Laboratory Co., Ltd., a Japanese corporation having a place of business at:

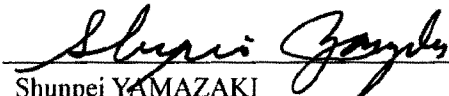
398, Hase, Atsugi-shi, Kanagawa-ken, 243-0036 Japan

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 DISPLAY DEVICE, DRIVING METHOD OF DISPLAY DEVICE, AND ELECTRONIC DEVICE, filed April 15, 2020, and assigned U.S. Serial Number 16/756,343, 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 Susumu Kawashima  
Name: Susumu KAWASHIMA  
Date: 04/03/2020

Signature Koji Kusunoki  
Name: Koji KUSUNOKI  
Date: 04/03/2020

Signature \_\_\_\_\_  
Name: Kei TAKAHASHI  
Date: \_\_\_\_\_

Signature   
Name: Shunpei YAMAZAKI  
Date: 04/02/2020

**ASSIGNMENT**

For valuable consideration, We, Susumu KAWASHIMA of Atsugi, Kanagawa, Japan, Koji KUSUNOKI of Isehara, Kanagawa, Japan, Kei TAKAHASHI of Isehara, Kanagawa, Japan and Shunpei YAMAZAKI of Setagaya, Tokyo, 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 DISPLAY DEVICE, DRIVING METHOD OF DISPLAY DEVICE, AND ELECTRONIC DEVICE, filed April 15, 2020, and assigned U.S. Serial Number 16/756,343, 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 \_\_\_\_\_  
Name: Susumu KAWASHIMA  
Date: \_\_\_\_\_

Signature \_\_\_\_\_  
Name: Koji KUSUNOKI  
Date: \_\_\_\_\_

Signature Kei Takahashi  
Name: Kei TAKAHASHI  
Date: 08/02/2020

Signature \_\_\_\_\_  
Name: Shunpei YAMAZAKI  
Date: \_\_\_\_\_