### 504596095 10/16/2017

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SHUNPEI YAMAZAKI	09/13/2017
KATSUAKI TOCHIBAYASHI	09/13/2017
KENICHI SHIOHAMA	10/09/2017

### **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**

Property Type	Number
Application Number:	15667863

### **CORRESPONDENCE DATA**

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER: 12732-1864001

NAME OF SUBMITTER: JANELLE A. JACKSON

SIGNATURE: /Janelle A. Jackson/

DATE SIGNED: 10/16/2017

#### **Total Attachments: 3**

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PATENT 504596095 REEL: 043875 FRAME: 0547

## ASSIGNMENT

For valuable consideration, We, <u>Shunpei YAMAZAKI of Setagaya</u>, <u>Tokyo</u>, <u>Japan, Katsuaki TOCHIBAYASHI of Isehara</u>, <u>Kanagawa</u>, <u>Japan and Kenichi SHIOHAMA of 1-10-6-202</u>, <u>Matsue</u>, <u>Atsugi-shi</u>, <u>Kanagawa-ken</u>, <u>243-0005</u>, <u>Japan</u> hereby assign to <u>Semiconductor Energy Laboratory Co.</u>, <u>Ltd.</u>, a <u>Japanese</u> 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 SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE, filed August 3, 2017, and assigned U.S. Serial Number 15/667,863, 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	Shunpei YAMAZAKI Jayala
Name:	Shunpei YAMAZAKI
Date:	09/13/2019
Signature	,
Name:	Katsuaki TOCHIBAYASHI
Date:	
Signature	
Name:	Kenichi SHIOHAMA
Date	

PATENT REEL: 043875 FRAME: 0548

## ASSIGNMENT

For valuable consideration, We, <u>Shunpei YAMAZAKI of Setagaya</u>, <u>Tokyo</u>, <u>Japan, Katsuaki TOCHIBAYASHI of Isehara</u>, <u>Kanagawa</u>, <u>Japan and Kenichi SHIOHAMA of 1-10-6-202</u>, <u>Matsue</u>, <u>Atsugi-shi</u>, <u>Kanagawa-ken</u>, <u>243-0005</u>, <u>Japan</u> hereby assign to <u>Semiconductor Energy Laboratory Co.</u>, <u>Ltd.</u>, a <u>Japanese</u> corporation having a place of business at:

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

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Signature	
Name:	Shunpei YAMAZAKI
Date:	
Signature	Katsuaki TOCHIBAYASH
Name:	Katsuaki TOCHIBAYASHI
Date:	09/13/20/7
Signature	
Name:	Kenichi SHIOHAMA
Date	

PATENT REEL: 043875 FRAME: 0549

Attorney Docket No. 12732-1864001 Client Ref. No. US24901 Page 3 of 3

# ASSIGNMENT

For valuable consideration, We, Shunpei YAMAZAKI of Setagaya, Tokyo, Japan, Katsuaki TOCHIBAYASHI of Isehara, Kanagawa, Japan and Kenichi SHIOHAMA of 1-10-6-202, Matsue, Atsugi-shi, Kanagawa-ken, 243-0005, 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 <u>SEMICONDUCTOR DEVICE AND METHOD FOR</u> MANUFACTURING SEMICONDUCTOR DEVICE, filed August 3, 2017, and assigned U.S. Scrial Number 15/667,863, 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:	Shunpei YAMAZAKI
Date:	
Signature	
Name:	Katsuaki TOCHIBAYASHI
Date:	
Signature	Kenichi Shiohama
Name:	Kenichi SHIOHAMA
Date	10/09/2017

PATENT REEL: 043875 FRAME: 0550

**RECORDED: 10/16/2017**