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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT5961391 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Shintaro Harada	01/31/2020
Tatsunori INOUE	01/28/2020
Yoshiyuki Kurokawa	01/28/2020
Shunpei Yamazaki	01/29/2020

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:	16638799

CORRESPONDENCE DATA

Fax Number: (877)769-7945

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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

Phone: (202) 783-5070 Email: apsi@fr.com **Correspondent Name:** JOHN F. HAYDEN

Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER: 12732-1995US1 APRIL K. SAUNDERS-FULLER NAME OF SUBMITTER: **SIGNATURE:** /April K. Saunders-Fuller/ **DATE SIGNED:** 02/13/2020

Total Attachments: 6

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Attorney Docket No. 12732-1995US1 Client Reference No. PCTUS27184 Page 1 of 6

ASSIGNMENT

For valuable consideration, We, Shintaro HARADA of Meriberu203, 7-43-17, Sagamiohno, Minami-ku, Sagamihara-shi, Kanagawa-ken, 252-0303, Japan, Tatsunori INOUE of Isehara, Kanagawa, Japan, Yoshiyuki KUROKAWA of Sagamihara, 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 ELECTRONIC DEVICE, filed February 13, 2020,
and assigned U.S. Serial Number 16/638,799, 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	Shintaro HARADA
Name:	Shintaro HARADA
Date:	01/31 (2020
Signature	
Name:	Tatsunori INOUE
Date:	

Attorney Docket No. 12732-1995US1 Client Reference No. PCTUS27184 Page 2 of 6

Signature		
Name:	Yoshiyuki KUROKAWA	
Date:		
Signature		
Name:	Shunpei YAMAZAKI	
Date:		

Attorney Docket No. 12732-1995US1 Client Reference No. PCTUS27184 Page 3 of 6

ASSIGNMENT

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documents as the Assignee may reasonably request to effectuate fully this assignment.

Signature	
Name:	Shintaro HARADA
Date:	
Signature	Tatsunori Inone
Name:	Tatsunori INOUE
Date:	01/28/2020

Attorney Docket No. 12732-1995US1 Client Reference No. PCTUS27184 Page 4 of 6

Signature	yoshiyaki Kurokawa
Name:	Yoshiyuki KUROKAWA
Date:	01/28/2020
Signature	
Name:	Shunpei YAMAZAKI
Date:	

Attorney Docket No. 12732-1995US1 Client Reference No. PCTUS27184 Page 5 of 6

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Name: Tatsunori INOUE
Date:

Attorney Docket No. 12732-1995US1 Client Reference No. PCTUS27184 Page 6 of 6

Signature
Name: Yoshiyuki KUROKAWA

Date:

Signature
Name: Shunpei YAMAZAKI

Date: 0//29'/2020

PATENT REEL: 051807 FRAME: 0964

RECORDED: 02/13/2020