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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YASUMASA YAMANE	07/04/2017
MOTOMU KURATA	07/04/2017
RYOTA HODO	07/05/2017
TAKAHISA ISHIYAMA	07/04/2017

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:	15652299

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	12732-1854001
NAME OF SUBMITTER:	JANELLE A. JACKSON
SIGNATURE:	/Janelle A. Jackson/
DATE SIGNED:	07/21/2017

Total Attachments: 2

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> **PATENT REEL: 043059 FRAME: 0455** 504467183

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ASSIGNMENT

For valuable consideration, We, <u>Yasumasa YAMANE of Atsugi, Kanagawa, Japan, Motomu KURATA of Isehara, Kanagawa, Japan, Ryota HODO of Atsugi, Kanagawa, Japan and Takahisa ISHIYAMA of Atsugi, Kanagawa, Japan hereby assign to <u>Semiconductor Energy Laboratory Co., Ltd., a Japanese corporation having a place of business at:</u></u>

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</u> ,
filed July 18, 2017 , and assigned U.S. Serial Number 15/652,299 , 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 Yasumasa YAMANE
Name: Yasumasa YAMANE
Date: $07/04/2 > 17$
Signature Motomia KUKA IA
Name: Motomu KURATA
Date: 07/04/20/7

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Signature Ryota HODO

Name: Ryota HODO

Date: 07/05/2017

Signatur Takahisa ISHIYAMA

Name: Takahisa ISHIYAMA

Date: 07/04/20/7

PATENT REEL: 043059 FRAME: 0457

RECORDED: 07/21/2017