PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROYUKI MIYAKE	12/13/2016
KENICHI OKAZAKI	12/13/2016
YASUHARU HOSAKA	12/13/2016
YUKINORI SHIMA	12/13/2016

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:	15904537

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:	12732-1777002
NAME OF SUBMITTER:	JANELLE A. JACKSON
SIGNATURE:	/Janelle A. Jackson/
DATE SIGNED:	04/09/2018

Total Attachments: 2

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> **PATENT REEL: 045484 FRAME: 0579** 504860025

ASSIGNMENT

For valuable consideration, We, <u>Hiroyuki MIYAKE of Atsugi, Kanagawa, Japan, Kenichi OKAZAKI of Tochigi, Tochigi, Japan, Yasuharu HOSAKA of Tochigi, Tochigi, Japan and Yukinori SHIMA of Tatebayashi, Gunma, Japan hereby assign to <u>Semiconductor Energy Laboratory Co., Ltd.</u>, a <u>Japanese</u> corporation having a place of business at:</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 AND DISPLAY DEVICE</u>
INCLUDING THE SEMICONDUCTOR DEVICE, filed December 21, 2016, and assigned U.S. Serial
Number, 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	Hiroyuki MZYAKE
Name:	Hiroyuki MIYAKE
Date:	12/3/2016
	7,1
Signature	Kenichi OKAZAKI
Name:	Kenichi OKAZAKI
Date:	12/13/2016

PATENT REEL: 045484 FRAME: 0580

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Signature
Name: Yasuharu HOSAKA
Date: 12/13 /2016

Signatur
Name: Yukinori SHIMA
Date: (2/13/2016)

PATENT REEL: 045484 FRAME: 0581

RECORDED: 04/09/2018