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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
Takanori Matsuzaki	10/21/2019
Kiyoshi Kato	10/18/2019

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:	16616181

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: 12732-1977US1 NAME OF SUBMITTER: APRIL K. SAUNDERS-FULLER SIGNATURE: /April K. Saunders-Fuller/ **DATE SIGNED:** 11/22/2019

Total Attachments: 1

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PATENT REEL: 051090 FRAME: 0152 505788423

Attorney Docket No. 12732-1977US1 Client Reference No. PCTUS26693

ASSIGNMENT

For valuable consideration, We, <u>Takanori MATSUZAKI of Atsugi</u>, <u>Kanagawa, Japan and Kiyoshi KATO of Atsugi</u>, <u>Kanagawa, Japan</u> hereby assign to <u>Semiconductor Energy Laboratory Co., 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 COMPARISON CIRCUIT. SEMICONDUCTOR DEVICE, ELECTRONIC COMPONENT, AND ELECTRONIC DEVICE, filed November 22, 2019 and assigned U.S. Serial Number 16/616.181 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	lakoneri MATSWKI		
Name:	Takanori MATSUZAKI		
Date:	10/21 /2019		
Signature	Kiyool Koto		
Name:	Kiyoshi KATO		
Date:	10/18/2019		

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RECORDED: 11/22/2019