503223384 03/18/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MUNEHIRO KOZUMA	02/24/2015
YOSHIYUKI KUROKAWA	02/24/2015
TAKAYUKI IKEDA	02/24/2015

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:	14635117

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NAME OF SUBMITTER: JANELLE A. JACKSON

SIGNATURE: /Janelle A. Jackson/

DATE SIGNED: 03/18/2015

Total Attachments: 1

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PATENT 503223384 REEL: 035189 FRAME: 0143

Attorney Docket No. 12732-1448001 Client Reference No. US20171

ASSIGNMENT

For valuable consideration, We, <u>Munehiro KOZUMA of Isehara, Kanagawa, Japan, Yoshiyuki KUROKAWA of Sagamihara, Kanagawa, Japan and Takayuki IKEDA of Atsugi, Kanagawa, 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 **VOLTAGE CONTROLLED** OSCILLATOR, SEMICONDUCTOR DEVICE, AND ELECTRONIC DEVICE, filed March 2, 2015 assigned U.S. Serial Number __14/635,117 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	Munehiro Kozuma
Name:	Munehiro KOZUMA
Date:	02/24/2015
Signature Name: Date:	Yshiyuki Kurokawa Yoshiyuki KUROKAWA 02/24/2015
Signature	Takayuki Ikeda
Name:	Takayuki IKEDA
Date	02 / 24 / 2015

RECORDED: 03/18/2015

PATENT REEL: 035189 FRAME: 0144