504653729 11/21/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROYUKI MIYAKE	11/18/2017
TAKAHIRO FUKUTOME	11/15/2017

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:	15784550

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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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:	12732-1892001	
NAME OF SUBMITTER:	JANELLE A. JACKSON	
SIGNATURE:	/Janelle A. Jackson/	
DATE SIGNED:	11/21/2017	

Total Attachments: 2

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PATENT 504653729 REEL: 044195 FRAME: 0354

Attorney Docket No. 12732-1892001 Client Ref. No. US25398 Page 1 of 2

<u>ASSIGNMENT</u>

For valuable consideration, We, <u>Hiroyuki MIYAKE of Toyota</u>, <u>Aichi, Japan and Takahiro FUKUTOME of Atsugi, 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 TOUCH SENSOR, DISPLAY DEVICE, DISPLAY MODULE, AND ELECTRONIC DEVICE, filed October 16, 2017, and assigned U.S. Serial Number 15/784,550, 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	Himyale: MIMKE		
Name:	Hiroyuki MIYAKE		
Date:	11/18/2017		
	<i>γ</i> . • · · · · · · · · · · · · · · · · · ·		
Signature			
Name:	Takahiro FUKUTOME		
Date:			

PATENT REEL: 044195 FRAME: 0355

Attorney Docket No. 12732-1892001 Client Ref. No. US25398 Page 2 of 2

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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 TOUCH SENSOR, DISPLAY DEVICE, DISPLAY MODULE, AND ELECTRONIC DEVICE, filed October 16, 2017, and assigned U.S. Serial Number 15/784,550, 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.

Hiroyuki MIYAKE	
Jahahira Suhutom	
Takahiro FUKUTOME	
11/15/2017	

PATENT REEL: 044195 FRAME: 0356

RECORDED: 11/21/2017