504649384 11/17/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHUNPEI YAMAZAKI	11/01/2017
KIYOSHI KATO	10/31/2017
YUTA ENDO	11/02/2017
RYO TOKUMARU	11/06/2017

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:	15811879

CORRESPONDENCE DATA

Fax Number: (877)769-7945

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (202) 783-5070
Email: APSI@fr.com
Correspondent Name: JOHN F. HAYDEN

Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	12732-1899001
NAME OF SUBMITTER:	JANELLE A. JACKSON
SIGNATURE:	/Janelle A. Jackson/
DATE SIGNED:	11/17/2017

Total Attachments: 6

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Attorney Docket No. 12732-1899001 Client Reference No. US25549/25550 Page 1 of 6

ASSIGNMENT

For valuable consideration, We, <u>Shunpei YAMAZAKI of Setagaya</u>, <u>Tokyo</u>, <u>Japan, Kiyoshi KATO of Atsugi</u>, <u>Kanagawa</u>, <u>Japan, Yuta ENDO of Atsugi</u>, <u>Kanagawa</u>, <u>Japan and Ryo TOKUMARU of Isehara</u>, <u>Kanagawa</u>, <u>Japan</u> hereby assign to <u>Semiconductor Energy Laboratory Co.</u>, <u>Ltd.</u>, a <u>Japanese 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 METHOD OF</u>
MANUFACTURING THE SAME, filed November 14, 2017, and assigned U.S. Serial
Number15/811,879, 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 Jayler Name: Shunpei YAMAZAKI
Name: Shunpei YAMAZAKI
Date: ///01/20/9

Signature	Alexan Georges		
Name:	Shunpei YAMAZAKI		
Date:	11/07/2019		
Signature			
Name:	Kiyoshi KATO		
Date:			

Attorney Docket No. 12732-1899001 Client Reference No. US25549/25550 Page 2 of 6

Signature:		
Name:	Yuta ENDO	
Date:		
Signature:		
Name:	Ryo TOKUMARU	
Date:		

Attorney Docket No. 12732-1899001 Client Reference No. US25549/25550 Page 3 of 6

ASSIGNMENT

For valuable consideration, We, <u>Shunpei YAMAZAKI of Setagaya</u>, <u>Tokyo, Japan, Kiyoshi KATO of Atsugi, Kanagawa, Japan, Yuta ENDO of Atsugi, Kanagawa, Japan and Ryo TOKUMARU of Isehara, Kanagawa, Japan hereby assign to <u>Semiconductor Energy Laboratory Co., Ltd.</u>, a <u>Japanese corporation having a place of business at:</u></u>

398, Hase, Atsugi-shi, Kanagawa-ken, 243-0036 Japan

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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	gn patents,
utility models, and design registrations granted for any of said inventions or improvements, and t	he right to
claim priority based on the filing date of said application under the International Conventi-	on for the
Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention	on, and all
other treaties of like purposes; and we authorize the Assignee to apply in all countries in our nan	ne 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	neirs, 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 Ass	ignee may
reasonably request to effectuate fully this assignment.	
Signature	
Name: Shunpei YAMAZAKI	
Date:	
A_{i} , A_{i}	
Signature Kiyah Kat	
Name: Kiyoshi KATO	
Date: $\frac{10/3i/2017}{}$	

Attorney Docket No. 12732-1899001 Client Reference No. US25549/25550 Page 4 of 6

Signature:		
Name:	Yuta ENDO	
Date:		
Signature:		
Name:	Ryo TOKUMARU	
Date:		

ASSIGNMENT

For valuable consideration, We, <u>Shunpei YAMAZAKI of Setagaya</u>, <u>Tokyo, Japan, Kiyoshi KATO of Atsugi, Kanagawa, Japan, Yuta ENDO of Atsugi, Kanagawa, Japan and Ryo TOKUMARU of Isehara, Kanagawa, Japan hereby assign to <u>Semiconductor Energy Laboratory Co., Ltd.</u>, a <u>Japanese</u> corporation having a place of business at:</u>

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Number15/81	11,879 , and we authorize and	request the attorneys appointed	in said application
to hereafter comp	plete this assignment by inserting above the	he filing date and serial number	of said application
when known; th	nis assignment including said application	n, any and all United States at	nd foreign patents
utility models, as	nd design registrations granted for any of	f said inventions or improvemer	its, and the right to
claim priority b	pased on the filing date of said applica	ution under the International C	Convention for the
Protection of Inc	dustrial Property, the Patent Cooperation	Treaty, the European Patent C	Convention, and all
other treaties of	like purposes; and we authorize the Assig	gnee to apply in all countries in	our name or in its
own name for p	patents, utility models, design registration	ns and like rights of exclusion	and for inventors
certificates for sa	aid inventions and improvements; and we	agree for ourselves and our res	pective heirs, legal
representatives a	and assigns, without further compensation	on to perform such lawful acts	and to sign such
further application	ons, assignments, Preliminary Statements	and other lawful documents as	the Assignee may
reasonably reque	est to effectuate fully this assignment.		
Signature			
Name: Shur	npei YAMAZAKI		
Date:			
Signature			
**************************************	oshi KATO		
Date:			

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Signature: Yuta Fudo

Name: Yuta ENDO

Date: ///02/2017

Signature: Ryo TOKUMARU

Date: // ob/2017

RECORDED: 11/17/2017