

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5708197

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Shunpei Yamazaki	07/17/2019
Toshihiko Takeuchi	07/05/2019
Naoto Yamade	07/05/2019
Hiroshi Fujiki	08/10/2019
Tomoaki Moriwaka	07/05/2019
Shunsuke KIMURA	07/08/2019
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:	16492282
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<i>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.</i>	
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:	12732-1967US1
NAME OF SUBMITTER:	APRIL K. SAUNDERS-FULLER
SIGNATURE:	/April K. Saunders-Fuller/
DATE SIGNED:	09/09/2019

Total Attachments: 8

source=12732-1967US1-ASN#page1.tif

source=12732-1967US1-ASN#page2.tif

source=12732-1967US1-ASN#page3.tif

source=12732-1967US1-ASN#page4.tif

source=12732-1967US1-ASN#page5.tif

source=12732-1967US1-ASN#page6.tif

source=12732-1967US1-ASN#page7.tif

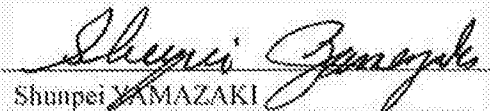
source=12732-1967US1-ASN#page8.tif

ASSIGNMENT

For valuable consideration, We, Shunpei YAMAZAKI of Setagaya, Tokyo, Japan, Toshihiko TAKEUCHI of Atsugi, Kanagawa, Japan, Naoto YAMADE of Isehara, Kanagawa, Japan, Hiroshi FUJIKI of Sejuruminamihanaoka11201, 4-3-8, Minamihanaoka, Kudamatsu-shi, Yamaguchi-ken, 744-0027, Japan, Tomoaki MORIWAKA of Isehara, Kanagawa, Japan and Shunsuke KIMURA of Esuieruhosoyahaitsu502, 710-1, Ishida, Isehara-shi, Kanagawa-ken, 259-1116, Japan hereby assign to Semiconductor Energy Laboratory Co., Ltd., a Japanese 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 SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE, filed September 9, 2019, and assigned U.S. Serial Number 16/492,282, 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 
Name: Shunpei YAMAZAKI
Date: 09/19/2019

Signature _____
Name: Toshihiko TAKEUCHI
Date: _____

Signature _____
Name: Naoto YAMADE _____
Date: _____

Signature _____
Name: Hiroshi FUJIKI _____
Date: _____

Signature _____
Name: Tomoaki MORIWAKA _____
Date: _____

Signature _____
Name: Shunsuke KIMURA _____
Date: _____

ASSIGNMENT

For valuable consideration, We, Shunpei YAMAZAKI of Setagaya, Tokyo, Japan, Toshihiko TAKEUCHI of Atsugi, Kanagawa, Japan, Naoto YAMADE of Isehara, Kanagawa, Japan, Hiroshi FUJIKI of Sejuruminamihanaoka11201, 4-3-8, Minamihanaoka, Kudamatsu-shi, Yamaguchi-ken, 744-0027, Japan, Tomoaki MORIWAKA of Isehara, Kanagawa, Japan and Shunsuke KIMURA of Esuierubosoyahaitsu502, 710-1, Ishida, Isehara-shi, Kanagawa-ken, 259-1116, Japan hereby assign to Semiconductor Energy Laboratory Co., Ltd., a Japanese 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 SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE, filed September 9, 2019 and assigned U.S. Serial Number 16/492,282, 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 _____
Name: Shunpei YAMAZAKI
Date: _____

Signature Toshihiko TAKEUCHI
Name: Toshihiko TAKEUCHI
Date: 07/05/2019

Signature Naoto YAMADE
Name: Naoto YAMADE
Date: 07/05/2019

Signature _____
Name: Hiroshi FUJIKI
Date: _____

Signature Tomoaki MORIWAKA
Name: Tomoaki MORIWAKA
Date: 07/05/2019

Signature _____
Name: Shunsuke KIMURA
Date: _____

ASSIGNMENT

For valuable consideration, We, Shunpei YAMAZAKI of Setagaya, Tokyo, Japan, Toshihiko TAKEUCHI of Atsugi, Kanagawa, Japan, Naoto YAMADE of Isehara, Kanagawa, Japan, Hiroshi FUJIKI of Sejunaminamihanaoka111201, 4-3-8, Minamihanaoka, Kudamatsu-shi, Yamaguchi-ken, 744-0027, Japan, Tomoaki MORIWAKA of Isehara, Kanagawa, Japan and Shunsuke KIMURA of Esuieruhosoyahaitsu502, 710-1, Ishida, Isehara-shi, Kanagawa-ken, 259-1116, Japan hereby assign to Semiconductor Energy Laboratory Co., Ltd., a Japanese 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 SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE, filed September 9, 2019, and assigned U.S. Serial Number 16/492,282, 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 _____
Name: Shunpei YAMAZAKI
Date: _____

Signature _____
Name: Toshihiko TAKEUCHI
Date: _____

Signature _____
Name: Naoto YAMADE
Date: _____

Signature *Hiroshi Fujiki*
Name: Hiroshi FUJIKI
Date: 8/10/2019

Signature _____
Name: Tomoaki MORIWAKA
Date: _____

Signature _____
Name: Shunsuke KIMURA
Date: _____

ASSIGNMENT

For valuable consideration, We, Shunpei YAMAZAKI of Setagaya, Tokyo, Japan, Toshihiko TAKEUCHI of Atsugi, Kanagawa, Japan, Naoto YAMADE of Isehara, Kanagawa, Japan, Hiroshi FUJIKI of Sejuruminamihanaoka11201, 4-3-8, Minamihanaoka, Kudamatsu-shi, Yamaguchi-ken, 744-0027, Japan, Tomoaki MORIWAKA of Isehara, Kanagawa, Japan and Shunsuke KIMURA of Enieruhiosoyahitsu502, 710-1, Ishida, Isehara-shi, Kanagawa-ken, 259-1116, Japan hereby assign to Semiconductor Energy Laboratory Co., Ltd., a Japanese 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 SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE, filed September 9, 2019, and assigned U.S. Serial Number 16/492,282, 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 _____
Name: Shunpei YAMAZAKI
Date: _____

Signature _____
Name: Toshihiko TAKEUCHI
Date: _____

Signature _____
Name: Naoto YAMADE
Date: _____

Signature _____
Name: Hiroshi FUJIKI
Date: _____

Signature _____
Name: Tomoaki MORIWAKA
Date: _____

Signature Shunsuke KIMURA
Name: Shunsuke KIMURA
Date: 07/08/2019