## 503839501 05/24/2016 PATENT ASSIGNMENT COVER SHEET

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		NEW ASSIGNMENT	
SUBMISSION TYPE: NATURE OF CONVEYANCE:			
		ASSIGNMENT	
CONVEYING PARTY D	АТА		
		Name	Execution Date
TAKAHIKO ISHIZU			05/04/2016
SHUHEI NAGATSUKA			05/04/2016
TATSUYA ONUKI			05/05/2016
YUTAKA SHIONOIRI			05/05/2016
NAOAKI TSUTSUI			05/05/2016
SHUNPEI YAMAZAKI			05/16/2016
<b>RECEIVING PARTY DA</b>	ТА		
Name:	SEMICON	IDUCTOR ENERGY LABOR	ATORY 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:	15	160076	
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		77)769-7945 <b>ne e-mail address first: if th</b> a	nat is unsuccessful, it will be sent
		f that is unsuccessful, it wil	
Phone:		)2) 783-5070	
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ATTORNEY DOCKET NU	JMBER:	12732-1693001	
NAME OF SUBMITTER:		JANELLE A. JACKSON	

/Janelle A. Jackson/

05/24/2016

SIGNATURE:

DATE SIGNED:

Total Attachmentar 4
Total Attachments: 4
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## ASSIGNMENT

For valuable consideration, We, <u>Takahiko ISHIZU of Atsugi, Kanagawa, Japan, Shuhei</u> NAGATSUKA of Atsugi, Kanagawa, Japan, Tatsuya ONUKI of Atsugi, Kanagawa, Japan, Yutaka SHIONOIRI of Isehara, Kanagawa, Japan, Naoaki TSUTSUI of Atsugi, Kanagawa, Japan and Shunpei YAMAZAKI of Setagaya, Tokyo, Japan hereby assign to <u>Semiconductor Energy Laboratory Co., Ltd.</u>, 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 MEMORY DEVICE OR ELECTRONIC DEVICE INCLUDING THE SAME, filed May 20, 2016 , and assigned U.S. Serial 15/160,076 , and we authorize and request the attorneys appointed in said application Number 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	Takahito	Ishizh
Name:	Takahiko ISHIZU	
Date:	05/04/2016	
Signature	Shukei	NAGATSULA
Name:	Shuhei NAGATSUKA	
Date:	05/04/2016	

Signature	Turaka SHLONDIRL
Name:	Yutaka SHIONOIRI
Date:	05/05/2010
Signature Name:	Tatgura Onuki Tatsuya ONUKI
Date:	05/05/2016
Signature Name: Date:	Naoaki TSUTSUI Naoaki TSUTSUI 05/05/2016
Signature Name:	Shunpei YAMAZAKI
Date:	

## **ASSIGNMENT**

For valuable consideration, We, <u>Takahiko ISHIZU of Atsugi, Kanagawa, Japan, Shuhei</u> <u>NAGATSUKA of Atsugi, Kanagawa, Japan, Tatsuya ONUKI of Atsugi, Kanagawa, Japan, Yutaka</u> <u>SHIONOIRI of Isehara, Kanagawa, Japan, Naoaki TSUTSUI of Atsugi, Kanagawa, Japan and Shunpei</u> <u>YAMAZAKI of Setagaya, Tokyo, 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 MEMORY DEVICE OR ELECTRONIC DEVICE INCLUDING THE SAME, filed May 20, 2016 , and assigned U.S. Serial Number 15/160,076, 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:	Takahiko ISHIZU	
Date:		
Signature		
Name:	Shuhei NAGATSUKA	
Date:		

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Signature	
Name:	Yutaka SHIONOIRI
Date:	
Signature	
Name:	Tatsuya ONUKI
Date:	
Signature	
Name:	Naoaki TSUTSUI
Date:	
Signature	Shipi gazili
Name:	Shunpei YAMAZAKI
Date:	05/16/2016