502568469 11/13/2013

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUNICHI KOEZUKA	09/30/2013
YUKINORI SHIMA	09/30/2013
HAJIME TOKUNAGA	10/03/2013
TOSHINARI SASAKI	10/15/2013
KEISUKE MURAYAMA	10/02/2013
DAISUKE MATSUBAYASHI	10/10/2013

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:	14062481

CORRESPONDENCE DATA

Fax Number: (877)769-7945 Phone: (202) 783-5070 Email: apsi@fr.com

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ATTORNEY DOCKET NUMBER: 12732-1255001

PATENT

REEL: 031596 FRAME: 0964

NAME OF SUBMITTER:	APRIL K. SAUNDERS-FULLER
Signature:	/April K. Saunders-Fuller/
Date:	11/13/2013
Total Attachments: 6 source=12732-1255001-ASN#page1.tif source=12732-1255001-ASN#page2.tif source=12732-1255001-ASN#page3.tif source=12732-1255001-ASN#page4.tif source=12732-1255001-ASN#page5.tif source=12732-1255001-ASN#page6.tif	

Attorney Docket No. 12732-1255001 Client Reference No. US17817 Page 1 of 6

ASSIGNMENT

For valuable consideration, We, <u>Junichi KOEZUKA of Tochigi</u>, <u>Tochigi</u>, <u>Japan</u>, <u>Yukinori</u> SHIMA of Tatebayashi, Gunma, Japan, Hajime TOKUNAGA of Gureisuwadamachi505, 3-9-6, Hoshikawa, Hodogaya-ku, Yokohama-shi, Kanagawa-ken, 240-0006, Japan, Toshinari SASAKI of C/O Tomita, 5-8-15-405, Kitashinagawa, Shinagawa-ku, Tokyo-to, 141-0001, Japan, Keisuke MURAYAMA of GurankasaII103, 7-3-46, Kagawa, Chigasaki-shi, Kanagawa-ken, 253-0082, Japan and Daisuke MATSUBAYASHI of Atsugi, Kanagawa, Japan hereby assign to <u>Semiconductor Energy Laboratory Co.</u>
<u>Ltd.</u>, a <u>Japanese</u> corporation having a place of business at:

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

Signature	Junichi KUEZVKA		
Name:	Junichi KOEZUKA		
Date:	09/30/2013		
Signature	Ynkinori Shima		
Name:	Yukinori SHIMA		
Date:	09/30/2013		

Attorney Docket No. 12732-1255001 Client Reference No. US17817 Page 2 of 6

Signature	
Name:	Hajime TOKUNAGA
Date:	
Signature	
Name:	Toshinari SASAKI
Date:	
Signature	Keisuke Murayama
Name:	Keisuke MURAYAMA
Date:	10/02/2013
Signature	Daisuke Matoubayashi
Name:	Daisuke MATSUBAYASHI
Date:	10/10/2013

Attorney Docket No. 12732-1255001 Client Reference No. US17817 Page 3 of 6

ASSIGNMENT

For valuable consideration, We, <u>Junichi KOEZUKA of Tochigi</u>, <u>Tochigi</u>, <u>Japan</u>, <u>Yukinori SHIMA of Tatebayashi</u>, <u>Gunma</u>, <u>Japan</u>, <u>Hajime TOKUNAGA of Gureisuwadamachi505</u>, 3-9-6, <u>Hoshikawa</u>, <u>Hodogaya-ku</u>, <u>Yokohama-shi</u>, <u>Kanagawa-ken</u>, <u>240-0006</u>, <u>Japan</u>, <u>Toshinari SASAKI of C/O Tomita</u>, <u>5-8-15-405</u>, <u>Kitashinagawa</u>, <u>Shinagawa-ku</u>, <u>Tokyo-to</u>, <u>141-0001</u>, <u>Japan</u>, <u>Keisuke MURAYAMA of GurankasaII103</u>, <u>7-3-46</u>, <u>Kagawa</u>, <u>Chigasaki-shi</u>, <u>Kanagawa-ken</u>, <u>253-0082</u>, <u>Japan and Daisuke MATSUBAYASHI of Atsugi</u>, <u>Kanagawa</u>, <u>Japan hereby assign to Semiconductor Energy Laboratory Co.</u>, <u>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 <u>SEMICONDUCTOR DEVICE AND METHOD FOR</u>
MANUFACTURING THE SAME, filed October 24, 2013, and assigned U.S. Seria
Number 14/062,481, 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: Junichi KOEZUKA
Date:
Signature
Name: Yukinori SHIMA
Date:

Attorney Docket No. 12732-1255001 Client Reference No. US17817 Page 4 of 6

Signature	Japone Vokunaga
Name:	Hajime TOKUNAGA
Date:	10/03/2013
Signature	
Name:	Toshinari SASAKI
Date:	
Signature	
Name:	Keisuke MURAYAMA
Date:	
Signature	
Name:	Daisuke MATSUBAYASHI
Date:	

Attorney Docket No. 12732-1255001 Client Reference No. US17817 Page 5 of 6

ASSIGNMENT

For valuable consideration, We, Junichi KOEZUKA of Tochigi, Tochigi, Japan, Yukinori SHIMA of Tatebayashi, Gunma, Japan, Hajime TOKUNAGA of Gureisuwadamachi505, 3-9-6, Hoshikawa, Hodogaya-ku, Yokohama-shi, Kanagawa-ken, 240-0006, Japan, Toshinari SASAKI of C/O Tomita, 5-8-15-405, Kitashinagawa, Shinagawa-ku, Tokyo-to, 141-0001, Japan, Keisuke MURAYAMA of GurankasaII103, 7-3-46, Kagawa, Chigasaki-shi, Kanagawa-ken, 253-0082, Japan and Daisuke MATSUBAYASHI of Atsugi, Kanagawa, 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 THE SAME, filed October 24, 2013, and assigned U.S. Serial
Number 14/062,481, 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:	Junichi KOEZUKA	
Date:		
Signature		
Name:	Yukinori SHIMA	
Date:		

Attorney Docket No. 12732-1255001 Client Reference No. US17817 Page 6 of 6

Signature	
Name:	Hajime TOKUNAGA
Date:	
	11 / (.
Signature	Todinari Sasafoë
Name:	Toshinari SASAKI
Date:	(0/10/2013
	(9)
Signature	
Name:	Keisuke MURAYAMA
Date:	
Signature	
Name:	Daisuke MATSUBAYASHI
Date:	

PATENT REEL: 031596 FRAME: 0971

RECORDED: 11/13/2013