

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3513227

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FUMIHIKO MOMOSE	08/17/2015
TAKASHI SAITO	08/17/2015
KAZUMASA KIDO	08/19/2015
YOSHITAKA NISHIMURA	08/17/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FUJI ELECTRIC CO., LTD.
<b>Street Address:</b>	1-1 TANABESHINDEN, KAWASAKI-KU
<b>City:</b>	KAWASAKI-SHI
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	210-9530
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14845256
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)408-0924
<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>	
<b>Phone:</b>	202-371-8976
<b>Email:</b>	firm@rabinberdo.com
<b>Correspondent Name:</b>	RABIN & BERDO, P.C.
<b>Address Line 1:</b>	1101 14TH ST., N.W., SUITE 500
<b>Address Line 4:</b>	WASHINGTON, D.C. 20005
<b>ATTORNEY DOCKET NUMBER:</b>	FEC-680BC1
<b>NAME OF SUBMITTER:</b>	ROBERT H. BERDO, JR.
<b>SIGNATURE:</b>	/Robert H. Berdo, Jr./
<b>DATE SIGNED:</b>	09/03/2015
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 4</b>	
source=03_FEC-680BC1_ASG-DEC_Signed#page1.tif	

source=03\_FEC-680BC1\_ASG-DEC\_Signed#page2.tif

source=09\_FEC-680BC1\_Substitute\_statement\_lieu\_Oath\_Signed#page1.tif

source=09\_FEC-680BC1\_Substitute\_statement\_lieu\_Oath\_Signed#page2.tif

**PATENT**

**REEL: 036492 FRAME: 0243**

**ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT**WHEREAS Fumihiko MOMOSE, Takashi SAITO, Kazumasa KIDO and Yoshitaka NISHIMURA,hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SEMICONDUCTOR DEVICE,

[X] said application being attached hereto;

[ ] said application having been filed in the United States Patent and Trademark Office on

\_\_\_\_\_, as Application Serial No. \_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable);

[ ] the specification of which was filed under the Patent Cooperation Treaty on \_\_\_\_\_, Serial No. \_\_\_\_\_, the United States of America being designated.

AND WHEREAS FUJI ELECTRIC CO., LTD.of 1-1 Tanabeshinden, Kawasaki-ku, Kawasaki-shi 210-9530, JAPAN,

hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Address all correspondence and telephone calls to Rabin & Berdo, P.C., 1101 14<sup>th</sup> Street, N.W., Suite 500, Washington, D.C. 20005, Telephone: (202) 371-8976; Fax: (202) 408-0924, Customer No. 23995.

**WITNESS:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

**ASSIGNOR (SOLE OR FIRST INVENTOR):**Signature: Fumihiko MomoseLegal Name: Fumihiko MOMOSEDate: August 17, 2015

Continued – Page 2  
ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

**WITNESS:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

**ASSIGNOR (SECOND INVENTOR):**

Signature: Takashi Saito

Legal Name: Takashi SAITO

Date: August 17, 2015

**WITNESS:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

**ASSIGNOR (THIRD INVENTOR):**

Signature: \_\_\_\_\_

Legal Name: Kazumasa KIDO

Date: \_\_\_\_\_

**WITNESS:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

**ASSIGNOR (FOURTH INVENTOR):**

Signature: Yoshitaka Nishimura

Legal Name: Yoshitaka NISHIMURA

Date: August 17, 2015

RABIN & BERDO, P.C., Washington, D.C.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY  
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

<b>Title of Invention</b>	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SEMICONDUCTOR DEVICE		
This statement is directed to: <input checked="" type="checkbox"/> The attached application, OR <input type="checkbox"/> United States application or PCT international application number _____ filed on _____.			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b> (E.g., Given Name (first and middle (if any)) and Family Name or Surname) Kazumasa KIDO			
Residence (except for a deceased or legally incapacitated inventor):			
Matsumoto City, Nagano City	State	210-9530 Zip	Japan Country
Mailing Address (except for a deceased or legally incapacitated inventor): c/o FUJI ELECTRIC CO., LTD., 1-1 Tanabeshinden, Kawasaki-ku			
Kawasaki-shi City	State	210-9530 Zip	Japan Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.  The above-identified application was made or authorized to be made by me.  I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:  <input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only), <input checked="" type="checkbox"/> Assignee, <input type="checkbox"/> Person to whom the inventor is under an obligation to assign, <input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or <input type="checkbox"/> Joint Inventor.			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,
- ☐ Inventor is under legal incapacity,
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

**WARNING:**

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Masaharu SHINOBE

August 19, 2015  
Date (Optional):

Signature:

**APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: FUJI ELECTRIC CO., LTD.

Title of Person Executing  
This Substitute Statement: General Manager, Intellectual Property Center, Corporate R&D HQ

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

**Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):**

City	Hidaka-shi	State	Saitama	Country	Japan
------	------------	-------	---------	---------	-------

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

c/o FUJI ELECTRIC CO., LTD., 1-1 Tanabeshinden, Kawasaki-ku

City	Kawasaki-shi	State		Zip	210-9530	Country	Japan
------	--------------	-------	--	-----	----------	---------	-------

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.