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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HEIJI WATANABE	06/20/2016
TAKAYOSHI SHIMURA	06/20/2016
TAKUJI HOSOI	06/20/2016
MITSURU SOMETANI	04/07/2016

RECEIVING PARTY DATA

Name:	OSAKA UNIVERSITY
Street Address:	1-1, YAMADAOKA
City:	SUITA-SHI, OSAKA
State/Country:	JAPAN
Postal Code:	565-0871
Name:	FUJI ELECTRIC CO., LTD.
Street Address:	1-1, TANABESHINDEN, KAWASAKI-KU
City:	KAWASAKI-SHI, KANAGAWA
State/Country:	JAPAN
Postal Code:	210-9530

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15221153	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 2529.1001

> **PATENT REEL: 039309 FRAME: 0279**

NAME OF SUBMITTER: DAVID M. PITCHER		
SIGNATURE:	/David M. Pitcher/	
DATE SIGNED:	08/02/2016	
Total Attachments: 2		
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source=Assignment#page2.tif		

PATENT REEL: 039309 FRAME: 0280

U.S. ASSIGNMENT

Docket No.

IN CONSIDERATION of the sum of One Dottar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by 1) OSAKA UNIVERSITY 1-1, Yamadaoka, Suita-shi, Osaka 565-0871 JAPAN (insert Name(s) & Address(es) of ASSIGNEE(S)) 2) FUJI ELECTRIC CO., LTD. 1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-9530 JAPAN (hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled (Title of Invention) METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE AND SEMICONDUCTOR MANUFACTURING APPARATUS USED FOR THE METHOD relating to International Patent Application and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was: (Insert date of execution of application, if not concurrent) (a) executed on

Any registered attorney of STAAS & HALSEY LLP, 1201 New York (b) filed on Avenue, N.W., Suite 700 Washington, D.C. 20005 (2021434-1500) is Serial No.: hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, relissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful ceths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). (Typed Name & Signature of Inventor(s)) 2) <u>Jakayushi Shimura</u> (Takayushi SHIMURA) Jahyv Kuzeo (Takuji HOSOI) (Mitsuru SOMETANI)

> **PATENT** REEL: 039309 FRAME: 0281

U.S. ASSIGNMENT

Docket No.

SAJI LIM

IN CONSIDERATION of the sum of One Dollar (\$1,00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

1) OSAKA UNIVERSITY

(Insert Name(s) & Address(es) of ASSIGNEE(S)) 1-

1-1, Yamadaoka, Suita-shi, Osaka 565-0871 JAPAN

2) FUJI ELECTRIC CO., LTD.

1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-9530 JAPAN

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled (Title of Invention)

METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE AND SEMICONDUCTOR MANUFACTURING APPARATUS USED FOR THE METHOD

relating to International Patent Application and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on	(Insert date of execution of application, if not concurrent)
(b) filed on	Any registered attorney of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to Insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, release or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful paths, providing sworn testimony, and obtaining and producing evidence.

(Typed Name & Signature of Invente		ea niskerineir signatu
1}:		••••
2)		•
3)(Takuji HOSOI)	·····	
in Mitsuru Someto	mi 4/7/201	<u>(</u>

PATENT REEL: 039309 FRAME: 0282

RECORDED: 08/02/2016