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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
TORU HIYOSHI	02/18/2015
KEIJI WADA	02/19/2015
TAKEYOSHI MASUDA	02/27/2015

RECEIVING PARTY DATA

Name:	SUMITOMO ELECTRIC INDUSTRIES, LTD.	
Street Address:	Address: 5-33, KITAHAMA 4-CHOME, CHUO-KU	
City:	OSAKA-SHI, OSAKA	
State/Country:	JAPAN	
Postal Code:	541-0041	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14439612

CORRESPONDENCE DATA

Fax Number: (202)344-8300

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.

202-344-4000 Phone:

jberryman@venable.com, ptomail@venable.com, Email:

tkjeffers@venable.com

MICHAEL A. SARTORI PH.D. **Correspondent Name:** Address Line 1: VENABLE LLP, P.O. BOX 34385 Address Line 4: WASHINGTON, JAPAN 20043-9998

ATTORNEY DOCKET NUMBER: 92396-380499 NAME OF SUBMITTER: MICHAEL A. SARTORI, PH.D. /MICHAEL A. SARTORI, PH.D./ **SIGNATURE: DATE SIGNED:** 04/29/2015

Total Attachments: 2

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> **PATENT REEL: 035530 FRAME: 0008** 503286109

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

		Application No.	Filed
Insert Name(s) of Inventor(s)	-	WHEREAS,	Toru HIYOSHI, Keiji WADA and Takeyoshi MASUDA
Insert Title of Invention	-		ted as the undersigned) has (have) invented certain new and useful improvements in pide Semiconductor Device and Method for Manufacturing
Insert Date of Signing of Application Insert Name of Assignee	→	undersigned (except	cation for Letters Patent of the United States of America has been executed by the in the case of a provisional application). 18, 2015, February 19, 2015, and February 27, 2015 and Sumitomo Electric Industries, Ltd.
Insert Address of Assignee	→	of <u>5-33, Kit</u>	Jahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan
CHECK BOX F APPROPRIATE		desirous of acquir	ors, legal representatives and assigns (hereinafter designated as the Assignee) is ring the entire right, title and interest in and to said invention and in and to any that may be granted therefor in the United States of America and foreign countries.
		the undersigned hand transfer unto so of America, its terr to any and all Lett	EFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in eipt of which is hereby acknowledged, and other good and valuable consideration, as (have) sold, assigned and transferred, and by these presents does sell, assign said Assignee the full and exclusive right to the said invention in the United States ritories, dependencies and possessions and the entire right, title and interest in and ters Patent(s) which may be granted therefor in the United States of America, its lencies and possessions, and if the box above is designated, in any and all foreign
		and to any and all term or terms for t	divisions, reissues, continuations, conversions and extensions thereof for the full which the same may be granted.

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PATENT REEL: 035530 FRAME: 0009 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional, conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Venable LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

(1) Date tehrnany 18,205	Name of Inventor Jou Hiyoshi Toru HIYOSHI
	Name of Inventor Coiji Wada Keiji WADA
(3) Date Teknary 7, 20/5	Name of Inventor Jakeyoshi. MASUDA
(4) Date ,	Name of Inventor
(5) Date	Name of Inventor
(6) Date	Name of Inventor
(7) Date,	Name of Inventor