#### 502104425 10/23/2012

#### PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Takeyoshi MASUDA	10/02/2012
Tomoaki HATAYAMA	10/03/2012

#### **RECEIVING PARTY DATA**

Name:	Sumitomo Electric Industries, Ltd.		
Street Address:	5-33, Kitahama 4-chome, Chuo-ku		
City:	Osaka-shi, Osaka		
State/Country:	JAPAN		
Postal Code:	541-0041		

Name:	NATIONAL UNIVERSITY CORPORATION NARA INSTITUTE OF SCIENCE AND TECHNOLOGY
Street Address:	8916-5, Takayama-cho
City:	Ikoma-shi, Nara
State/Country:	JAPAN
Postal Code:	630-0192

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13658583

#### **CORRESPONDENCE DATA**

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PATENT

502104425 REEL: 029176 FRAME: 0911

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ATTORNEY DOCKET NUMBER:	92396-339680		
NAME OF SUBMITTER: Michael A. Sartori, Ph.D.			
Total Attachments: 4 source=assignment_339680#page1.tif source=assignment_339680#page2.tif source=assignment_339680#page3.tif source=assignment_339680#page4.tif			

PATENT REEL: 029176 FRAME: 0912

ATTORNEY DOCKET NO	ATT	ORNE	Y DC	CKET	NO.
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# UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

## **ASSIGNMENT**

		Application No. Filed
Insert Name(s) of Inventor(s)	***	WHEREAS, Takeyoshi MASUDA and Tomoaki HATAYAMA
		·
		(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in
Insert Title of Invention	<b>100</b>	Method for Manufacturing Silicon Carbide Semiconductor Device
Insert Date of Signing of		for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).
Application	<b>=</b>	on October 2 and 3, 2012 ; and
Insert Name of Assignee	-	WHEREAS, (1) Sumitomo Electric Industries, Ltd. and
		(2) NATIONAL UNIVERSITY CORPORATION NARA INSTITUTE OF SCIENCE AND
		TECHNOLOGY
Insert Address of Assignee	-	of (1) 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041
		Japan and
		(2) 8916-5, Takayama-cho, Ikoma-shi, Nara 630-0192 Japan
CHECK BOX IF APPROPRIATE	<b>-</b>	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and in any and all foreign countries.
		NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;
		and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

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	October 2, 20/2.	Name of Inventor_	Takeyoshi MAS	manda Juda	•
(2) Date		Name of Inventor_	Tomoaki HATAY	'AMA	
(3) Date		Name of Inventor_			
(4) Date	•	Name of Inventor_		**************************************	,
(5) Date	r	Name of Inventor_			
(6) Date		Name of Inventor_			-
(7) Date	*	Name of Inventor_			

ATTORNEY DOCKET NO.

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

## **ASSIGNMENT**

		Application No. Filed
Insert Name(s) of Inventor(s)	***	WHEREAS, Takeyoshi MASUDA and Tomoaki HATAYAMA
Insert Title	-	(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in
of Invention	~	Method for Manufacturing Silicon Carbide Semiconductor Device
Insert Date of		for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).
Signing of Application	-	on October 2 and 3, 2012 ; and
Insert Name of Assignee	-	WHEREAS, (1) Sumitomo Electric Industries, Ltd. and
		(2) NATIONAL UNIVERSITY CORPORATION NARA INSTITUTE OF SCIENCE AND
		TECHNOLOGY
insert Address of Assignee	•	of _(1) 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041
		Japan and
		(2) 8916-5, Takayama-cho, Ikoma-shi, Nara 630-0192 Japan
CHECK BOX F APPROPRIATE		its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and in any and all foreign countries.
		NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;
		and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

1

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.

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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).

Name of Inventor_	
	Takeyoshi MASUDA
Name of Inventor_	Tomoaki HATAYAMA
	Tomoaki HATAYAMA
Name of Inventor_	
Name of Inventor_	
Name of Inventor_	
Name of Inventor_	
Name of Inventor_	
	Name of Inventor  Name of Inventor  Name of Inventor  Name of Inventor