

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hiroyuki KITABAYASHI</td> <td>07/18/2012</td> </tr> <tr> <td>Hideto TAMASO</td> <td>07/30/2012</td> </tr> <tr> <td>Taku HORII</td> <td>08/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hiroyuki KITABAYASHI	07/18/2012	Hideto TAMASO	07/30/2012	Taku HORII	08/07/2012		
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<table border="1"> <tr> <td>Name:</td> <td>Sumitomo Electric Industries, Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>5-33, Kitahama 4-chome, Chuo-ku</td> </tr> <tr> <td>City:</td> <td>Osaka-shi, Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>541-0041</td> </tr> </table>		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
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number: 2023448300 Phone: 202-344-4000 Email: kaj03@venable.com, ptomail@venable.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: Michael A. Sartori, Ph.D. Address Line 1: Venable LLP Address Line 2: P.O. Box 34385 Address Line 4: Washington, DISTRICT OF COLUMBIA 20043-9998											
ATTORNEY DOCKET NUMBER:	92396-337853										
NAME OF SUBMITTER:	Steven J. Schwarz										
Total Attachments: 2 source=assignment#page1.tif source=assignment#page2.tif											

CH \$40.00 13610673

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

Application No. _____ Filed _____

Insert Name(s) of Inventor(s) ➡ WHEREAS, Hiroyuki KITABAYASHI, Hideto TAMASO and Taku HORII

Insert Title of Invention ➡ (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in
Method for Manufacturing Semiconductor Device

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).

Insert Date of Signing of Application ➡ on July 18, 2012, July 30, 2012, and August 7, 2012 ; and

Insert Name of Assignee ➡ WHEREAS, Sumitomo Electric Industries, Ltd.

Insert Address of Assignee ➡ of 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan

CHECK BOX IF 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.

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 patent(s) or 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 July 18, 2012 , Name of Inventor Hiroiyuki Kitabayashi
Hiroiyuki KITABAYASHI

(2) Date July 30, 2012 , Name of Inventor Hideto Tamaso
Hideto TAMASO

(3) Date August 7, 2012 , Name of Inventor Taku Horii
Taku HORII

(4) Date _____ , Name of Inventor _____

(5) Date _____ , Name of Inventor _____

(6) Date _____ , Name of Inventor _____

(7) Date _____ , Name of Inventor _____