

## 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>Keiji Wada</td> <td>10/24/2012</td> </tr> <tr> <td>Toru Hiyoshi</td> <td>10/24/2012</td> </tr> </tbody> </table>		Name	Execution Date	Keiji Wada	10/24/2012	Toru Hiyoshi	10/24/2012
Name	Execution Date						
Keiji Wada	10/24/2012						
Toru Hiyoshi	10/24/2012						
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						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13679576</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13679576		
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Application Number:	13679576						
CORRESPONDENCE DATA							
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Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif							

CH \$40.00 13679576

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

ASSIGNMENT

Application No. \_\_\_\_\_ Filed \_\_\_\_\_

Insert Name(s) of Inventor(s) → WHEREAS, Keiji WADA and Toru HIYOSHI

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

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 October 24, 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 October 24, 2012 , Name of Inventor Keiji Wada  
Keiji WADA

(2) Date October 24, 2012 , Name of Inventor Toru Hiyoishi  
Toru HIYOSHI

(3) Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

(4) Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

(5) Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

(6) Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

(7) Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_