

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|---|------------------------------------|---------------|------------------------------------|---------------------|----------------------------------|-------------|------------------|-----------------|------------|-------------------|------------|----------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Makoto SASAKI</td> <td>01/20/2011</td> </tr> <tr> <td>Shin HARADA</td> <td>01/20/2011</td> </tr> <tr> <td>Taro NISHIGUCHI</td> <td>01/24/2011</td> </tr> <tr> <td>Shinsuke FUJIWARA</td> <td>01/25/2011</td> </tr> <tr> <td>Yasuo NAMIKAWA</td> <td>01/25/2011</td> </tr> </tbody> </table> | | Name | Execution Date | Makoto SASAKI | 01/20/2011 | Shin HARADA | 01/20/2011 | Taro NISHIGUCHI | 01/24/2011 | Shinsuke FUJIWARA | 01/25/2011 | Yasuo NAMIKAWA | 01/25/2011 |
| Name | Execution Date | | | | | | | | | | | | |
| Makoto SASAKI | 01/20/2011 | | | | | | | | | | | | |
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| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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 | | |
| 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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13062057</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13062057 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 13062057 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: (202)204-0289</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-842-8800</p> <p>Email: renee.rodriguez@dbr.com</p> <p>Correspondent Name: DRINKER BIDDLE & REATH (DC)</p> <p>Address Line 1: 1500 K STREET, N.W.</p> <p>Address Line 2: SUITE 1100</p> <p>Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005-1209</p> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 201917-0047 (466037) | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Peter J. Sistare | | | | | | | | | | | | |

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PATENT
REEL: 025894 FRAME: 0984

Total Attachments: 2

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PATENT

REEL: 025894 FRAME: 0985

ATTORNEY DOCKET NO.:

SOLE/JOINT INVENTION
(U.S. Rights Only)

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

Method for Manufacturing Semiconductor Substrate

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on _____, (Serial No. _____); and

WHEREAS, Sumitomo Electric Industries, Ltd., a corporation of Japan, whose post office address is 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan, (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parenthesis (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

| | | |
|---|--|--------------------------|
| Full Name of Sole or First Assignor Makoto SASAKI | Assignor's Signature <i>Makoto Sasaki</i> | Date January 20, 2011 |
| Address c/o Itami Works of Sumitomo Electric Industries, Ltd., 1-1, Koyakita 1-chome, Itami-shi, Hyogo 664-0016 Japan | | Citizenship Japanese |
| Full Name of Second Assignor Shin HARADA | Assignor's Signature <i>Shin Harada</i> | Date January 20, 2011 |
| Address c/o Osaka Works of Sumitomo Electric Industries, Ltd., 1-3, Shimaya 1-chome, Konohana-ku, Osaka-shi, Osaka 554-0024 Japan | | Citizenship Japanese |
| Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

PATENT

REEL: 025894 FRAME: 0986

ATTORNEY DOCKET NO.:

| | | |
|---|--|---------------------------------|
| Full Name of Third Assignor Taro NISHIGUCHI | Assignor's Signature <i>Taro Nishiguchi</i> | Date <i>January 24, 2011</i> |
| Address c/o Itami Works of Sumitomo Electric Industries, Ltd., 1-1, Koyakita 1-chome, Itami-shi, Hyogo 664-0016 Japan | | Citizenship Japanese |
| Full Name of Fourth Assignor Shinsuke FUJIWARA | Assignor's Signature <i>Shinsuke Fujiwara</i> | Date <i>January 25, 2011</i> |
| Address c/o Itami Works of Sumitomo Electric Industries, Ltd., 1-1, Koyakita 1-chome, Itami-shi, Hyogo 664-0016 Japan | | Citizenship Japanese |
| Full Name of Fifth Assignor Yasuo NAMIKAWA | Assignor's Signature <i>Yasuo Namikawa</i> | Date <i>January 25, 2011</i> |
| Address c/o Osaka Works of Sumitomo Electric Industries, Ltd., 1-3, Shimaya 1-chome, Konohana-ku, Osaka-shi, Osaka 554-0024 Japan | | Citizenship Japanese |
| Full Name of Sixth Assignor | Assignor's Signature | Date |
| Address | | Citizenship |
| Full Name of Seventh Assignor | Assignor's Signature | Date |
| Address | | Citizenship |
| Full Name of Eighth Assignor | Assignor's Signature | Date |
| Address | | Citizenship |
| Full Name of Ninth Assignor | Assignor's Signature | Date |
| Address | | Citizenship |
| Full Name of Tenth Assignor | Assignor's Signature | Date |
| Address | | Citizenship |
| Full Name of Eleventh Assignor | Assignor's Signature | Date |
| Address | | Citizenship |
| Names of additional inventors attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |