

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SATOSHI SHIMAMOTO | 03/18/2013 |
| YUGO ORIHASHI | 03/19/2013 |
| YOSHITOMO HASHIMOTO | 03/18/2013 |
| YOSHIRO HIROSE | 03/18/2013 |
| RECEIVING PARTY DATA | |
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| State/Country: | JAPAN |
| Postal Code: | 1018980 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14939901 |
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| NAME OF SUBMITTER: | DENNIS F. DEFINO, JR. |
| SIGNATURE: | /Dennis DeFino, Jr./ |
| DATE SIGNED: | 02/19/2016 |
| Total Attachments: 5 | |

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ASSIGNMENT

Satoshi SHIMAMOTO, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, Toyama 9392393, Japan, a citizen of Japan; Yugo ORIHASHI, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, Toyama 9392393, Japan, a citizen of Japan; Yoshitomo HASHIMOTO, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, Toyama 9392393, Japan, a citizen of Japan; and Yoshiro HIROSE, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, Toyama 9392393, Japan, a citizen of Japan, (hereafter jointly and severally referred to as the undersigned), are the inventors of

Method of Manufacturing Semiconductor Device, Method of Processing Substrate, Substrate Processing Apparatus and Non-transitory Computer-readable Recording Medium

for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 14/939,901, filed November 12, 2015,

The undersigned hereby authorize assignee or assignee's representative to insert the Application Number and the filing date of this application if they are unknown at the time of execution of this assignment.

Hitachi Kokusai Electric Inc., corporation, having a principal place of business at 14-1, Sotokanda 4-chome, Chiyoda-ku, Tokyo 1018980, Japan (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

For good and valuable consideration, the receipt and sufficiency of which is acknowledged, the undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues and reexaminations thereof, throughout the world, including the right to claim priority under the Paris Convention or other treaty.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 18th day of March, 2013

at Tokyo 1018980, Japan.
(Place)

Witness:

Satoshi Shimamoto (L.S.)
Satoshi SHIMAMOTO

(Although not mandatory, if possible,
please subscribe appropriate notarization and obtain APOSTILLE)

EXECUTED under seal on this 19th day of March, 2013
at Tokyo 1018980, Japan.
(Place)

Witness:

_____ Yugo ORIHASHI (L.S.)
Yugo ORIHASHI

(Although not mandatory, if possible,
please subscribe appropriate notarization and obtain APOSTILLE)

EXECUTED under seal on this 18th day of March, 2013
at Tokyo 1018980, Japan.
(Place)

Witness:

Yoshitomo HASHIMOTO (L.S.)
Yoshitomo HASHIMOTO

(Although not mandatory, if possible,
please subscribe appropriate notarization and obtain APOSTILLE)

EXECUTED under seal on this 18th day of March, 2013
at Tokyo 1018980, Japan.
(Place)

Witness:

Yoshiro HIROSE
Yoshiro HIROSE (L.S.)

(Although not mandatory, if possible,
please subscribe appropriate notarization and obtain APOSTILLE)