

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Hiroaki TANAKA | 05/13/2013 |
| RECEIVING PARTY DATA | |
| Name: | TOYOTA JIDOSHA KABUSHIKI KAISHA |
| Street Address: | 1, Toyota-cho, Toyota-shi |
| City: | Aichi-ken |
| State/Country: | JAPAN |
| Postal Code: | 471-8571 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13989962 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 12394-67 |
| NAME OF SUBMITTER: | Gregory Kleitsch |
| Signature: | /Gregory Kleitsch/ |
| Date: | 05/28/2013 |
| Total Attachments: 2 source=12394-67_ASSIGNMENT#page1.tif source=12394-67_ASSIGNMENT#page2.tif | |

OP \$40.00 13989962

ASSIGNMENT FOR US PATENT APPLICATIONS AND US PATENTS

WHEREAS, the undersigned inventor, Hiroaki TANAKA of Nagakute-shi, Aichi-ken, Japan (hereinafter referred to as "the Assignor"), has invented certain new and useful improvements in "SEMICONDUCTOR DEVICE", and is the owner of the entire right, title and interest in and to said improvements;

WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA, a corporation duly organized under the laws of Japan, and having a principal place of business at 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title and interest of the Assignor in and to said improvements;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, does hereby sell, assign, transfer, and set over, unto the Assignee, its successors, and legal representatives, the entire right, title, and interest of the Assignor in and to the above-mentioned improvements, the above-mentioned entire right, title and interest of the Assignor includes the entire right, title and interest in and to PCT patent application designating U.S. filed on November 29, 2010, the serial No. of which is PCT/JP2010/071240, in and to any and all US Patents that may be granted therefor and thereon, in and to any and all applications claiming priority to said applications, in and to any divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, and legal representatives to the full end of the term or terms for which Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants to and agrees with the Assignee, its successors and legal representatives, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of their entire right, title, and interest in and to the improvements set forth in said above-mentioned application, and that the same right, title, and interest are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants to and agrees with the Assignee, its successors, and legal representatives that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, and legal representatives, shall advise that any proceeding in connection with said improvements, or any proceeding in connection with US Patents for said improvements in the United States of America, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Patents, or any reissue or extension of any Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Patents for said improvements, without charge to the Assignee, its successors, and legal representatives, but at the cost and expense of the Assignee, their successors, and legal representatives;

AND Assignor hereby authorizes the Assignee, its successors and legal

representatives, or anyone it may properly designate, to insert below the filing date and serial number of said US patent application, when said filing date and serial number become available:

US Patent Application Serial No. _____ Filing Date _____ ;

AND the Assignor hereby requests the Commissioner of Patents and Trademarks to issue any and all said US Patents that may be granted upon any of the above-mentioned applications, in the name of the Assignee, for the sole use and behalf of the Assignee, its successors, and legal representatives.

Date: May 13, 2013 Name of Assignor Hiroaki Tanaka
Hiroaki TANAKA