

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3075833

|   |                                     |
|---|-------------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                      |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                          |
| <b>CONVEYING PARTY DATA</b>   |                                     |
| <b>Name</b>   | <b>Execution Date</b>               |
| GORO YASUTOMI   | 08/25/2014                          |
| YUKIMASA HAYASHIDA  | 08/26/2014                          |
| <b>RECEIVING PARTY DATA</b>   |                                     |
| <b>Name:</b>  | MITSUBISHI ELECTRIC CORPORATION     |
| <b>Street Address:</b>  | 7-3, MARUNOUCHI 2-CHOME, CHIYODA-KU |
| <b>City:</b>  | TOKYO                               |
| <b>State/Country:</b>   | JAPAN                               |
| <b>Postal Code:</b>   | 100-8310                            |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                     |
| <b>Property Type</b>  | <b>Number</b>                       |
| <b>Application Number:</b>  | 14396155                            |
| <b>CORRESPONDENCE DATA</b>  |                                     |
| <b>Fax Number:</b>  |                                     |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                     |
| <b>Phone:</b>   | 703 390 9051                        |
| <b>Email:</b>   | info@sbpatentlaw.com                |
| <b>Correspondent Name:</b>  | STUDEBAKER & BRACKETT PC            |
| <b>Address Line 1:</b>  | 12700 SUNRISE VALLEY DRIVE          |
| <b>Address Line 2:</b>  | SUITE 102                           |
| <b>Address Line 4:</b>  | RESTON, VIRGINIA 20191              |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 005700-ME0124                       |
| <b>NAME OF SUBMITTER:</b>   | DONALD R. STUDEBAKER                |
| <b>SIGNATURE:</b>   | /Donald R. Studebaker/              |
| <b>DATE SIGNED:</b>   | 10/22/2014                          |
| <b>Total Attachments: 1</b>   |                                     |
| source=ASN#page1.tif  |                                     |

## ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

**WHEREAS** Goro YASUTOMI and Yukimasa HAYASHIDA, both of c/o Melco Semiconductor Engineering Corporation, 1-1, Imajyukuhigashi 1-chome, Nishi-ku, Fukuoka-shi, Fukuoka 8190192 Japan hereinafter referred to collectively as the assignor, has invented a certain improvement relating to:

SEMICONDUCTOR DEVICE

[ ] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[ ] said application having been filed in the United States Patent and Trademark Office on, \_\_\_\_\_, authorization being hereby given to the practitioners associated with STUDEBAKER & BRACKETT PC's CUSTOMER NUMBER 78198, to insert here in parentheses (Application Serial No. \_\_\_\_\_) the application serial number of said application when known;

[X] said application having been filed under the Patent Cooperation Treaty on July 13, 2012, as Serial No. PCT/JP2012/067893, the United States of America being designated.

**AND WHEREAS** Mitsubishi Electric Corporation of 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310, Japan, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

**NOW**, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

The undersigned hereby grant(s) the law firm of STUDEBAKER & BRACKETT PC 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.

This Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: August 25, 2014

Signature: Goro Yasutomi  
Name: Goro YASUTOMI

Date: August 26, 2014

Signature: Yukimasa Hayashida  
Name: Yukimasa HAYASHIDA