

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>SEIJI OKA</td> <td>08/06/2012</td> </tr> <tr> <td>KAZUHIRO TADA</td> <td>08/01/2012</td> </tr> <tr> <td>HIROSHI YOSHIDA</td> <td>08/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	SEIJI OKA	08/06/2012	KAZUHIRO TADA	08/01/2012	HIROSHI YOSHIDA	08/03/2012
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SEIJI OKA	08/06/2012								
KAZUHIRO TADA	08/01/2012								
HIROSHI YOSHIDA	08/03/2012								
RECEIVING PARTY DATA									
Name:	MITSUBISHI ELECTRIC CORPORATION								
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City:	TOKYO								
State/Country:	JAPAN								
Postal Code:	100-8310								
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>13619353</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13619353				
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Application Number:	13619353								
CORRESPONDENCE DATA									
Fax Number:	7033901277								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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NAME OF SUBMITTER:	Donald R. Studebaker								
Total Attachments: 1 source=ASN#page1.tif									

OP \$40.00 13619353

PATENT

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Seiji OKA, Kazuhiro TADA and Hiroshi YOSHIDA, all of c/o Mitsubishi Electric Corporation, 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310, Japan hereinafter referred to collectively as the assignor, has invented a certain improvement relating to:

SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

[X] 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;

[] said application having been filed under the Patent Cooperation Treaty on _____, as Serial No. _____, 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 1, 2012

Signature: Seiji Oka
Name: Seiji OKA

Date: August 1, 2012

Signature: Kazuhiro Tada
Name: Kazuhiro TADA

Date: August 3, 2012

Signature: Hiroshi Yoshida
Name: Hiroshi YOSHIDA