

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5338775

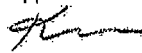
<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NAOKI YOSHIMATSU	12/07/2018
OSAMU USUI	12/17/2018
YUJI IMOTO	12/10/2018
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<b>State/Country:</b>	JAPAN
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16319975
<b>CORRESPONDENCE DATA</b>	
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<b>Address Line 4:</b>	TYSONS, VIRGINIA 22102
<b>ATTORNEY DOCKET NUMBER:</b>	004700-ME0355
<b>NAME OF SUBMITTER:</b>	TIM L. BRACKETT, JR.
<b>SIGNATURE:</b>	/Tim L. Brackett, Jr./
<b>DATE SIGNED:</b>	01/23/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 3</b>	
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Attorney Docket No. \_\_\_\_\_

**COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT OF APPLICATION  
FOR UNITED STATES LETTERS PATENT**

<b>Title of Invention:</b>	
SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF	
私は、以下に記名された発明者として、ここに下記の通り宣言する：	As a below named inventor, I hereby declare that:
本宣言書は、以下の出願に対するものである：	This declaration is directed to:
<input type="checkbox"/> 添付された出願、あるいは、 <input type="checkbox"/> 米国出願番号またはPCT国際出願番号は、 _____ であり、且つ _____ の日に提出された出願 (該当する場合)	<input type="checkbox"/> The attached application, or <input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/JP2016/081492</u> filed on <u>October 24, 2016</u>
上記出願書(明細書及び図面)は、私が作成した ものか、あるいは私がその作成を許可したもので ある。	The above-identified application was made or authorized to be made by me.
私は、本米国出願の請求範囲に記載された発明に 対する原発明者であるか、或いは、原共同発明者 であると信じている。	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
私は、ここでの宣誓または陳述において故意に偽 りを述べた場合、合衆国法典第18巻第1001条に基 づき、罰金あるいは5年以下の懲役、または、両 方の懲罰を受けることを認める。	I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
	<b>STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):</b>
	The Declaration and Assignment for Patent and Design Applications is an accurate translation of the corresponding English language Declaration and Assignment for Patent and Design Applications
	Signature: 
	Date: <u>11/15/2012</u>



Attorney Docket No. \_\_\_\_\_

**WHEREAS** the undersigned, hereinafter referred to as the assignor, has invented a certain improvement relating to the above identified application.

The inventor declaration for said application is combined herewith.

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 100-8310, 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 grants the law firm of **STUDEBAKER & BRACKETT PC** the power to insert on the Assignment portion of this combined Declaration and 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 combined Declaration and Assignment has been executed by the undersigned on the date opposite the undersigned name.

発明者氏名/ Legal Name of Inventor Naoki YOSHIMATSU	
発明者の署名/ Signature 吉松直樹	日付/ Date December 7, 2018



Attorney Docket No. \_\_\_\_\_

SUPPLEMENTAL SHEET FOR  
DECLARATION AND ASSIGNMENT  
宣言書ならびに譲渡証の補足シート

ADDITIONAL INVENTOR(S)  
Supplemental Sheet Page 1 of 1  
追加の発明者  
補足シート1 / ページ

発明者氏名/ Legal Name of Inventor Osamu USUI	
発明者の署名/ Signature 石井 修	日付/ Date December 17, 2018

発明者氏名/ Legal Name of Inventor Yuji IMOTO	
発明者の署名/ Signature 井本 裕見	日付/ Date December 10, 2018

発明者氏名/ Legal Name of Inventor	
発明者の署名/ Signature	日付/ Date

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