#### 503725737 03/08/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3772380

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KENSUKE OTA	02/13/2016
TOSHIFUMI IRISAWA	02/15/2016
MASUMI SAITOH	02/16/2016
KIWAMU SAKUMA	02/16/2016

#### **RECEIVING PARTY DATA**

Name:	KABUSHIKI KAISHA TOSHIBA
Street Address:	1-1, Shibaura 1-chome, Minato-Ku
City:	Tokyo
State/Country:	Japan
Postal Code:	105-8001

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15002002

#### **CORRESPONDENCE DATA**

Fax Number: (703)413-2220

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.

(703) 413-3000 Phone: Email: vlam@oblon.com **Correspondent Name:** OBLON, ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	466194US20RD
NAME OF SUBMITTER:	VANESSA LAM
SIGNATURE:	/Vanessa Lam/
DATE SIGNED:	03/08/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4** 

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**PATENT** REEL: 037916 FRAME: 0862

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	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE
Title of Invention	SAME
As the below name	d inventor, I hereby declare that:
This declaration 🗵	The attached application, or
	United States application or PCT international application number filed on
The above-identific	ed application was made or authorized to be made by me.
I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.
(hereinafter referre 105-8001 Japan, i Letters Patent that foreign countries;	bushiki Kaisha Toshiba  and to as "ASSIGNEE") having places of business at: 1-1 Shibaura 1-chome, Minato-ku, Tokyo is desirous of acquiring the entire right, title and interest in and to said invention and in and to any may be granted therefore in the United States and its territorial possessions and in any and all
acknowledged, and said ASSIGNEE, the and in all foreign of other relevant Inte- interest in and to possessions and it substitutions and re-	
any and all foreig assignee of my en (his) successors an entirely as the sam	rize and request the Patent Office Officials in the United States and its territorial possessions and in countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the tire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and see would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.	
I hereby ackno	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nment of not more than five (5) years, or both.
LEGAL NAME C	
Inventor: Kensu	ke OTA Date: February 13, 2016
Signature: <u>K</u>	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Title of Invention	SAME	HOD FOR MANUFACTURING THE
As the below name	ed inventor, I hereby declare that:	
This declaration 🗵	The attached application, or	
	United States application or PCT international ap	,
The above-identifie	ed application was made or authorized to be made b	y me.
I believe that I am t	the original inventor or an original joint inventor of	a claimed invention in the application.
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acknowledged, and said ASSIGNEE, the and in all foreign cother relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOL of for other good and valuable consideration, I, by the full and exclusive right to the said invention in the countries (including the right to claim priority under mational Treaties and Arrangements from the aforeany and all Letters Patent which may be granted to any and all foreign countries and in and to a genewals thereof.	these presents do sell, assign and transfer unto the United States and its territorial possessions in the terms of the International Convention and desaid application) and the entire right, title and therefor in the United States and its territorial
any and all foreign assignee of my ent (his) successors and	ize and request the Patent Office Officials in the Un countries to issue any and all of said Letters Patire right, title and interest in and to the same, for the dassigns, to the full end of the term for which sale would have been held by me had this Assignment	tent, when granted, to said ASSIGNEE as the he sole use and behoof of said ASSIGNEE, its id Letters Patent may be granted, as fully and
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	viedge that any willful false statement made in this of the first of not more than five (5) years, or both.	declaration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	FINVENTOR	
Inventor: Toshifu	ımi IRISAWA	Date: February 15,2016
Signature: Tolk	ifank Disance	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Title of Invention	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
As the below name	d inventor, I hereby declare that:
This declaration 🗵	The attached application, or
is directed to:	United States application or PCT international application number
The above-identifie	d application was made or authorized to be made by me.
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.
(hereinafter referre	d to as "ASSIGNEE") having places of business at: 1-1 Shibaura 1-chome, Minato-ku, Tokyo desirous of acquiring the entire right, title and interest in and to said invention and in and to any may be granted therefore in the United States and its territorial possessions and in any and all
acknowledged, and said ASSIGNEE, the and in all foreign coother relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto me full and exclusive right to the said invention in the United States and its territorial possessions countries (including the right to claim priority under the terms of the International Convention and mational Treaties and Arrangements from the aforesaid application) and the entire right, title and may and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals thereof.
any and all foreign assignee of my enti (his) successors an	ze and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d assigns, to the full end of the term for which said Letters Patent may be granted, as fully and a would have been held by me had this Assignment and sale not been made.
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	rledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.
LEGAL NAME OF	FINVENTOR
Inventor: Masum	SAITOH Date: Feb. 16, 2016
Signature: Me	raumi Saitoli

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

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	reledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.
LEGAL NAME OF	
Inventor: Kiwam	u SAKUMA Date: reb 16, 2016
Signature:	amy Sakuma

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 037916 FRAME: 0867

**RECORDED: 03/08/2016**