### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KEIJI IKEDA	03/11/2016
KIWAMU SAKUMA	03/10/2016
MASUMI SAITOH	03/10/2016

#### **RECEIVING PARTY DATA**

Name:	KABUSHIKI KAISHA TOSHIBA	
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State/Country:	Japan	
Postal Code:	105-8001	

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

Property Type	Number
Application Number:	15072722

#### CORRESPONDENCE DATA

Fax Number: (703)413-2220

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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OBLON, ET AL. **Correspondent Name:** Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	468990US20RD
NAME OF SUBMITTER:	BRANDON BOTCHWAY
SIGNATURE:	/Brandon Botchway/
DATE SIGNED:	03/17/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 3**

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> **PATENT** REEL: 038013 FRAME: 0153 503741555

# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	SEMICONDUCTOR DEVICE
As the below named inventor, I hereby declare that:	
This declaration 🔀 The attached application, or	
	United States application or PCT international application number
	ed 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 referred 105-8001, JAPAN ) Letters Patent that in countries;	BUSHIKI KAISHA TOSHIBA d 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 nay be granted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged, and ASSIGNEE, the ful all foreign countrie relevant Internation in and to any and all renewals thereof.	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 said if and exclusive right to the said invention in the United States and its territorial possessions and in a (including the right to claim priority under the terms of the International Convention and other lateraties and Arrangements from the aforesaid application) and the entire right, title and interest il Letters Patent which may be granted therefor in the United States and its territorial possessions foreign countries and in and to any and all divisions, reissues, continuations, substitutions and
and all foreign cour of my entire right, successors and assi as the same would i	ze and request the Patent Office Officials in the United States and its territorial possessions and any atries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) gas, to the full end of the term for which said Letters Patent may be granted, as fully and entirely have been held by me had this Assignment and sale not been made.
respecting sold in continuation, substi all of said Letters Pa to aid said ASSIGN the United States ar	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, little, renewal and reissue applications, execute all necessary assignment papers to cause any and atent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible IEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in all its territorial possessions and in any and all foreign countries.
by fine or imprison	dedge 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: Kelji IK	EDA Date: Murch 11, 20/6
Signature:	eiji Skedar.

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

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# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Invention	SEMICONDUCTOR DEVICE
As the below name	d inventor, I hereby declare that:
· · · · · ·	The attached application, or
	United States application or PCT international application numberfiled on
The above-identific	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 referred 105-8001, JAPAN, Letters Patent that no countries;	BUSHIKI KAISHA TOSHIBA  i to as "ASSIGNEB") 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 hay be granted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged, and ASSIGNEE, the ful all foreign countries relevant Internation in and to any and al	ORB, 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 said I and exclusive right to the said invention in the United States and its territorial possessions and in a (including the right to claim priority under the terms of the International Convention and other al Treatics and Arrangements from the aforesaid application) and the entire right, title and interest I Letters Patent which may be granted therefor in the United States and its territorial possessions foreign countries and in and to any and all divisions, reissues, continuations, substitutions and
and all foreign coun of my entire right, successors and assign	te and request the Patent Office Officials in the United States and its territorial possessions and any dries to issue any and all of said Letters Patent, when granted, to said ASSIGNEB as the assignee title and interest in and to the same, for the sole use and behoof of said ASSIGNEB, its (his) gas, to the full and of the term for which said Letters Patent may be granted, as fully and entirely lave been held by me had this Assignment and sale not been made.
respecting said inv continuation, substi- all of said Letters Pa to aid said ASSIGN	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me tention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, tute, renewal and reissue applications, execute all necessary assignment papers to cause any and stent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible BB, its (his) successors and assigns, to obtain and enforce proper protection for said invention in d its territorial possessions and in any and all foreign countries.
I hereby acknow by fine or imprisonr	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nent of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Kiwamu	
Signature: <u>Muu</u>	rame Lakuma

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

10002200271

### DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of SEMICONDUCTOR DEVICE Invention
As the below named inventor, I hereby declare that:
This declaration 🔀 The attached application, or
is directed to: United States application or PCT international application number
The above-identified 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.
WHERBAS, KABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEB") having places of business at: <a href="I-1">I-1</a> , Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;
NOW, THERBFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEB 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 ASSIGNEB, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEB, 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 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.
LEGAL NAME OF INVENTOR
Inventor: Masumi SAITOH. Date: March 10, 20/6
Signature: Masumi Saitoh

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

中国政治的大学工

**RECORDED: 03/17/2016** 

PATENT REEL: 038013 FRAME: 0156