### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3778303

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KIICHI TACHI	11/17/2015
MASANOBU SHIRAKAWA	11/17/2015
MASAKI YOSHIMURA	11/17/2015
MARIE TAKADA	11/17/2015
YOSHIKAZU HARADA	11/17/2015

#### **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:	15066718

### **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.

**Phone:** (703) 413-3000

**Email:** mguerrero@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	468589US20
NAME OF SUBMITTER:	MELANIE GUERRERO
SIGNATURE:	/Melanie Guerrero/
DATE SIGNED:	03/10/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).
T . 1 AV. 1	

Total Attachments: 5



Invention	SEMICONDUCTOR MEMORY DEVICE	
As the below name	As the below named inventor, I hereby declare that:	
This declaration $[\![ igstyle ]\!]$	The attached application, or	
	United States application or PCT international application number filed on	
The above identifie	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.	
WHEREAS, KABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of business at: 1-1, 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;		
acknowledged, and sald ASSIGNEE, t and in all foreign o other relevant Inter interest in and to	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby if for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the 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 any and all Letters Patent which may be granted therefor in the United States and its territorial in any and all foreign countries and in and to any and all divisions, reissues, continuations, enewals thereof.	
any and all foreign assignee of my ent (his) successors an	ize and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the fire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its ad assigns, to the full end of the term for which said Letters Patent may be granted, as fully and e 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 acknow by fine or imprisor	wledge 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 O	FINVENTOR	
Inventor: Kilch		
Signature:	Kiichi Tadri	

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

Title of Invention	SEMICONDUCTOR MEMORY DEVICE
As the below name	ed inventor, I hereby declare that:
	☐ 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	the original inventor or an original joint inventor of a claimed invention in the application,
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LEGAL NAME (	
Inventor: Mas	anoby SHIRAKAWA Date: Nov. 17, 2015
Signature: //www	and Allerana

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Further, I agre respecting said in continuation, subs all of said Letters possible to aid sa invention in the U	the that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, stitute, renewal and reissue applications, execute all necessary assignment papers to cause any and a Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything aid ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said united States and its territorial possessions and in any and all foreign countries.
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LEGAL NAME C	OF INVENTOR
Inventor: Mass	aki YOSHIMURA Date: Nov. 17, 2015
Signature: /	Masaki Yoshimura

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LEGAL NAME O	F INVENTOR
Inventor: Marie	TAKADA Date: Nov. 17, 2015
Signature:	larie Taleoda

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Title of	
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The above-identified	l application was made or authorized to be made by me.
I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.
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LEGAL NAME OF	INVENTOR
	azu HARADA Date: 2015_11_17
Signature; Yos	rilerzu Harada

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PATENT REEL: 037949 FRAME: 0048

**RECORDED: 03/10/2016**