#### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Takayuki TSUKAMOTO	02/07/2013
Jun NISHIMURA	02/07/2013
Masahiro UNE	02/18/2013
Takafumi SHIMOTORI	02/13/2013
Yoichi MINEMURA	02/07/2013
Hiroshi KANNO	02/07/2013

#### **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:	13773989

### **CORRESPONDENCE DATA**

Fax Number: 7034132220

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (703) 413-3000

Email: AAdams@oblon.com

Correspondent Name: Oblon, Spivak, et al.

Address Line 1: 1940 Duke Street

Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 412446US2

NAME OF SUBMITTER: Arielle Adams

PATENT

502239948 REEL: 029857 FRAME: 0591

DP \$40.00 13773989

	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 6 source=412446USASN#page1.tif source=412446USASN#page2.tif source=412446USASN#page3.tif source=412446USASN#page4.tif source=412446USASN#page5.tif source=412446USASN#page6.tif	

Title of SEMICONDUCTOR MEMORY 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 filed on	
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.	
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 any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;	
NOW, THEREFORE, 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 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 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: Takayuki TSUKAMOTO . Date: Feb. 7, 2013	
Signature: Todayuse: Josephint	

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

1048100120

Title of Invention	SEMICONDUCTOR MEMORY DEVICE
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	ed application was made or authorized to be made by me.
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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 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 e would have been held by me had this Assignment and sale not been made.
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	vicinge 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	
Inventor: Jun NI	
Signature:	Jun Wishimura

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

1048100120

Invention	SEMICONDUCTOR MEMORY DEVICE	
As the below name	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 filed on	
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LEGAL NAME OF	FINVENTOR	
Inventor: Masahi	ro UNE Date: February 18, 2013	
Signature:	Masahiro UNE	

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

Title of	SEMICONDUCTOR MEMORY DEVICE
Invention	
As the below name	d inventor, I hereby declare that:
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LEGAL NAME O	1 1 1 1 1 1 1 1 1 1 1 1 1 1
Inventor: Takafu	
Signature: Fack	afermi Spinotori

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ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

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Title of SEMICONDUCTOR MEMORY DEVICE	
Invention	
As the below named inventor, I hereby declare that:	
This declaration  The attached application, or	
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I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.	
WHEREAS, KABUSHIKI KAISHA TOSHIBA	
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LEGAL NAME OF INVENTOR	
Inventor: Yoichi MINEMURA Date: Feb. 7, 2013	
Signature: Yoich Minenura	

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

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Title of	SEMICONDUCTOR MEMORY DEVICE
Invention	DEFINITION DE L'AUTRE
A - 41 11	
	d inventor, I hereby declare that:
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is directed to:	United States application or PCT international application number
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LEGAL NAME OF	INVENTOR
Inventor: Hiroshi	KANNO Date: Feb 7, 20/3
Signature: 241	oshi Kanno

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

1048100120

**PATENT REEL: 029857 FRAME: 0598** 

**RECORDED: 02/22/2013**