502551589 10/30/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2597176

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOICHI MINEMURA	10/09/2013
TAKAYUKI TSUKAMOTO	10/09/2013
HIROSHI KANNO	10/09/2013
TAKAMASA OKAWA	10/09/2013

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:	13969835

CORRESPONDENCE DATA

 Fax Number:
 (703)413-2220

 Phone:
 (703) 413-3000

 Email:
 bpalmer@oblon.com

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

Correspondent Name: OBLON, SPIVAK, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	420696US20
NAME OF SUBMITTER:	BRIAN PALMER
Signature:	/Brian Palmer/
	BATENT

FATENT 502551589 REEL: 031511 FRAME: 0305

OP \$40.00 13969835

Date:	10/30/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 4 source=420696USASSN#page1.tif source=420696USASSN#page2.tif source=420696USASSN#page3.tif source=420696USASSN#page4.tif	

NONVOLATILE SEMICONDUCTOR MEMORY DEVICE

Invention		
As the below name	ed inventor, I hereby declare that:	
This declaration [The attached application, or	
is directed to:	United States application or PCT international filed on August 19,2013	application number
The above-identific	ed application was made or authorized to be made	e by me.
I believe that I am	the original inventor or an original joint inventor	of a claimed invention in the application.
(hereinafter referre	, is desirous of acquiring the entire right, title a	ss at: 1-1, Shibaura 1-chome, Minato-ku, Tokyo and interest in and to sald invention and in and to a and its territorial possessions and in any and all
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 cialm 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.		
any and all foreign assignce of my ent (his) successors an	n countries to issue any and all of said Letters tire right, title and interest in and to the same, fo	e United States and its territorial possessions and Patent, when granted, to said ASSIGNEB as the or the sole use and behoof of said ASSIGNEE, its a said Letters Patent may be granted, as fully and ent and sale not been made.
respecting said in continuation, substall of said Letters possible to aid sai	rvention, and testify in any legal proceeding, titute, renewal and reissue applications, execute Patent to be issued to said ASSIONEB, make	or its (his) representatives any facts known to me sign all lawful papers, execute all divisional, all necessary assignment papers to cause any and all rightful caths, and, generally do everything to obtain and enforce proper protection for said any and all foreign countries.
	wledge that any willful false statement made in the nment of not more than five (5) years, or both.	his declaration is punishable under 18 U.S.C. 1001
LEGAL NAME O	F INVENTOR	_
Inventor: Yolchi	MINEMURA	Date: 0c+ 9. 2013
Signature: 4	oichi Minemura	

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

1048100095

Title of

Title of NONVOLATILE 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 13/969,835 filed on August 19,2013	
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 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, 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 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: Takayuki TSUKAMOTO Date: Oct 9, 20/3 Signature: Takayuki TSUKAMOTO	

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

Invention	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
As the below name	d inventor, I hereby declare that:
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is directed to:	United States application or PCT international application number 13/969,835 filed on August 19,2013
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 105-8001, JAPAN	BUSHIKI KAISHA TOSHIBA i 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 hat may be granted therefore in the United States and its territorial possessions and in any and all
acknowledged, and said ASSIGNEE, it and in all foreign o other 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 be full and exclusive right to the said invention in the United States and its territorial possessions puntries (including the right to claim priority under the terms of the International Convention and national Treatles and Arrangements from the aforesaid application) and the entire right, title and my 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 re right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its dassigns, to the full end of the term for which said Letters Patent may be granted, as fully and 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 imprison	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: Hiroshi	KANNO Date: Oct 9, 2013
Signature: _ Hor	och! Kanno

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

Invention	NONVOLATILE 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 13/969,835 filed on August 19,2013		
The above-identifie	ed application was made or authorized to be made by me.		
I believe that I am t	the original inventor or an original joint inventor of a claimed invention in the application.		
(hereinafter referre	BUSHIKI KAISHA TOSHIBA d 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 that may be granted therefore in the United States and its territorial possessions and in any and all		
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any and all foreign assignee of my enti (his) successors an	tze 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 a would have been held by me had this Assignment and sale not been made.		
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by fine or imprison	viedge 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: Takam	asa OKAWA Date: Oct. 9, 20/3		
Signature: Yaka	consc. Okana		

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
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1940 DUKE STREET
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