503502778 09/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3549404

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TADASHI IGUCHI	09/17/2015
MURATO KAWAI	09/15/2015
TORU MATSUDA	09/17/2015
HISASHI KATO	09/17/2015
MEGUMI ISHIDUKI	09/17/2015

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:	14849743

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: mvukovic@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	460031US20
NAME OF SUBMITTER:	MARA VUKOVIC
SIGNATURE:	/Mara Vukovic/
DATE SIGNED: 09/30/2015	
	This document serves as an Oath/Declaration (37 CFR 1.63).
T . 1 Av. 1	

Total Attachments: 5

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Title of Invention SEMICONDUCTOR MEMORY DEVICE AND PRODUCTION METHOD THEREOF
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 September 10,2015 . 14/849,743
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 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: Tadashi IGUCHI Date: Sept. 17, 2015
Signature: Jadoh Jgrehr

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

1048100176

Title of Invention	SEMICONDUCTOR MEMORY DEVICE AND PRODUCTION METHOD THEREOF
As the below name	d inventor, I hereby declare that:
	The attached application, or
	United States application or PCT international application number 14/849,743 filed on September 10,2015
	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 ed to as "ASSIGNEE") having places of business at: 1-1, Shibaura 1-chome, Minato-ku, Tokyo, as desirous of acquiring the entire right, title and interest in and to said invention and in and to any a may be granted therefore in the United States and its territorial possessions and in any and all
acknowledged, and said ASSIGNEE, and in all foreign other relevant Inte interest in and to possessions and is substitutions and re	
any and all foreig assignee of my en (his) successors a entirely as the san	rize and request the Patent Office Officials in the United States and its territorial possessions and an countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the stire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its nd assigns, to the full end of the term for which said Letters Patent may be granted, as fully and ne would have been held by me had this Assignment and sale not been made.
respecting said is continuation, substall of said Letters possible to aid satinvention in the U	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 is 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 finited States and its territorial possessions and in any and all foreign countries.
I hereby acknow by fine or imprison	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 onment of not more than five (5) years, or both.
LEGAL NAME (DF INVENTOR
Inventor: Murat	to KAWAI Date: Sept. 15, 20,5
Signature: 970	Purato Kanar

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

1048100176

Invention TH	MICONDUCTOR MEMORY DEVICE AND PRODUCTION MITEREOF	ETHOD
As the below named inve	ventor, I hereby declare that:	
	ne attached application, or	
is directed to: Dun file	nited States application or PCT international application number14/849, led on September 10,2015	743
	oplication was made or authorized to be made by me.	
I believe that I am the or	original inventor or an original joint inventor of a claimed invention in the ap	oplication.
(hereinafter referred to a 105-8001 Japan, is desingular that may foreign countries;	SHIKI KAISHA TOSHIBA as "ASSIGNEE") having places of business at: 1-1, Shibaura 1-chome, I sirous of acquiring the entire right, title and interest in and to said invention y be granted therefore in the United States and its territorial possessions as	and in any and all
acknowledged, and for said ASSIGNEE, the fu and in all foreign counts other relevant Internation interest in and to any a possessions and in any substitutions and renew		rand transfer time ritorial possessions hal Convention and hire right, title and s and its territorial hues, continuations,
any and all foreign cou assignee of my entire ri (his) successors and assignee entirely as the same wo	and request the Patent Office Officials in the United States and its territor nuntries to issue any and all of said Letters Patent, when granted, to said right, title and interest in and to the same, for the sole use and behoof of sassigns, to the full end of the term for which said Letters Patent may be grould have been held by me had this Assignment and sale not been made.	aid ASSIGNEE, its ranted, as fully and
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 by fine or imprisonment	dge that any willful false statement made in this declaration is punishable un int of not more than five (5) years, or both.	nder 18 U.S.C. 1001
LEGAL NAME OF IN		A
Inventor: Toru MAT		, 2015
Signature: Fru M	Matorda	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

1048100176

1	SEMICONDUCTOR MEMORY DEVICE AND PRODUCTION METHOD THEREOF
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 14/849,743 filed on September 10,2015
The above-identified	application was made or authorized to be made by me.
I believe that I am the	e original inventor or an original joint inventor of a claimed invention in the application.
(hereinafter referred	USHIKI KAISHA TOSHIBA 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 hay be granted therefore in the United States and its territorial possessions and in any and all
acknowledged, and f said ASSIGNEE, the and in all foreign co- other relevant Interna- interest in and to an	ORE, 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 a full and exclusive right to the said invention in the United States and its territorial possessions untries (including the right to claim priority under the terms of the International Convention and ational Treaties and Arrangements from the aforesaid application) and the entire right, title and y 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, ewals thereof.
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respecting said invector continuation, substituted all of said Letters Prossible to aid said	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me ention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, and testify in any legal proceeding, sign all lawful papers, execute all divisional, atte, renewal and reissue applications, execute all necessary assignment papers to cause any and attent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said and States and its territorial possessions and in any and all foreign countries.
I hereby acknowle by fine or imprisonm	edge 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: Hisashi I	XATO Date: Sept. 17, 2015
Signature:	lisashi kato

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
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LEGAL NAME OF I	INVENTOR
Inventor: Megumi	ISHIDUKI Date: Gep. 17, 2015
Signature: Megum	•

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

1048100176

PATENT REEL: 036692 FRAME: 0145

RECORDED: 09/30/2015