## 502553550 10/31/2013

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2599163

SUBMISSION TYPE:	MISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT				
CONVEYING PARTY	DATA					
			ame		Execution Date	
KOICHI MATSUNO					8/2013	1
YOSHIHIRO YANAI				10/1	8/2013	
RECEIVING PARTY	DATA					
Name: KABUSHIKI KAISHA			OSHIBA			
Street Address:		RA 1-CH	OME, MINATO-KU			
City:	токуо					4
State/Country:	JAPAN					
PROPERTY NUMBE		1				¬
Property			Numbe	r		
		140197		r		
Property	Туре	140197		r		
Property Application Number: CORRESPONDENCI	Type E DATA	JL	22	r		
Property Application Number:	Type  E DATA  (703	140197 3)413-22 3) 413-30	22	r		
Property Application Number: CORRESPONDENCI Fax Number: Phone: Email:	Type  E DATA  (703 (703) bpa	3)413-22 3) 413-30 Imer@ok	20 00 olon.com	r		
Property Application Number: CORRESPONDENCI Fax Number: Phone: Email: Correspondence will	Type  E DATA  (703 (703) bpal be sent via US Ma	3)413-22 3) 413-30 Imer@ob	20 00 olon.com the email attempt is unsuccessful.	г		
Property Application Number: CORRESPONDENCI Fax Number: Phone: Email:	Type  E DATA  (703 (703) bpal be sent via US Ma	3)413-22 3) 413-30 Imer@ok <i>ail when</i> _ON, SP	20 00 olon.com	r		
Property Application Number: CORRESPONDENCI Fax Number: Phone: Email: Correspondence will Correspondent Name	Type  E DATA  (703 (703) bpai be sent via US Ma :: OBL 194	3)413-22 3) 413-30 Imer@ok <i>ail when</i> _ON, SP 0 DUKE	20 00 olon.com the email attempt is unsuccessful. VAK, ET AL.	r		
Property Application Number: CORRESPONDENCI Fax Number: Phone: Email: Correspondence will Correspondent Name Address Line 1:	Type  E DATA  (703 (703) bpal be sent via US Ma 1944 ALE	3)413-22 3) 413-30 Imer@ok <i>ail when</i> _ON, SP 0 DUKE	20 00 olon.com the email attempt is unsuccessful. VAK, ET AL. STREET	Γ		
Property Application Number: CORRESPONDENCI Fax Number: Phone: Email: Correspondence will Correspondent Name Address Line 1: Address Line 4:	Type  E DATA  (703 (703) bpa be sent via US Ma e: OBL 1944 ALE	3)413-22 3) 413-30 Imer@ok <i>ail when</i> _ON, SP 0 DUKE	20 00 olon.com the email attempt is unsuccessful. VAK, ET AL. STREET A, VIRGINIA 22314	r		
Property Application Number: CORRESPONDENCI Fax Number: Phone: Email: Correspondence will Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET	Type  E DATA  (703 (703) bpa be sent via US Ma e: OBL 1944 ALE	3)413-22 3) 413-30 Imer@ok <i>ail when</i> _ON, SP 0 DUKE	20 00 olon.com the email attempt is unsuccessful. VAK, ET AL. STREET A, VIRGINIA 22314	r		
Property Application Number: CORRESPONDENCI Fax Number: Phone: Email: Correspondence will Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET	Type  E DATA  (703 (703) bpa be sent via US Ma e: OBL 1944 ALE	3)413-22 3) 413-30 Imer@ok <i>ail when</i> _ON, SP 0 DUKE	20 00 blon.com the email attempt is unsuccessful. VAK, ET AL. STREET A, VIRGINIA 22314 421692US20 BRIAN PALMER	r		

PATENT REEL: 031522 FRAME: 0982

source=421692USASSN#page1.tif source=421692USASSN#page2.tif

Total Attachments: 2

## 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 STORAG METHOD THEREOF	E DEVICE AND MANUFACTURING
As the below named i	nventor, I hereby declare that:	and the entire that the parties of the entire that the
is directed to: ⊠: U	he attached application, or nited States application or PCT internation and September 6,2013	onal application number 14/019.722
The above-identified	application was made or authorized to be	made by me., $\dots$
I believe that I am the	original inventor or an original joint inve	entor of a claimed invention in the application.
having a place of bus entire right, title and i	iness:at: <u>1-1, Shibaura 1-Chome, Mins</u> nterest in and to said invention and in a	(hereinafter referred to as "ASSIGNEE")  tto-Ku, Tokyo, Japan is desirous of acquiring the ad to any Letters Patent that may be granted therefore ad all foreign countries;
acknowledged, and fo said ASSIGNEE, the and in all foreign cour other relevant Internal interest in and to any	r other good and valuable consideration, full and exclusive right to the said inven- stries (including the right to claim priorit ional Treaties and Arrangements from the and all Letters Patent which may be go my and all; foreign countries and in an	B DOLLARS (\$5.00), the receipt whereof is hereby I, by these presents do sell, assign and transfer unto the United States and its territorial possessions y under the terms of the International Convention and the aforesaid application) and the entire right, title and ranted therefor in the United States and its territorial and to any and all divisions, reissues, continuations,
any and all foreign con assignee of my entire (his) successors and a	ountries to issue any and all of said Let right, title and interest in and to the sam ssigns, to the full end of the term for w	n the United States and its territorial possessions and ters Patent, when granted, to said ASSIGNEE as the e, for the sole use and behoof of said ASSIGNEE, its hich said Letters Patent may be granted, as fully and grantent and sale not been made.
respecting said invencentinuation, substitute all of said Letters Papossible to aid said A	tion, and testify in any legal proceed e, renewal and reissue applications, exec tent to be issued to said ASSIGNEE, n	EE or its (his) representatives any facts known to me ing, sign all lawful papers, execute all divisional, oute all necessary assignment papers to cause any and nake all rightful oaths, and, generally do everything gns, to obtain and enforce proper protection for said in any and all foreign countries.
1001 by fine or impris	onment of not more than five (5) years, o	de in this declaration is punishable under 18 U.S.C. or both.
LEGAL NAME OF IN		
Inventor: Koichi MA	ATSUNO DE PER PER LE	Date: 18th, Oct. 2013
Signature: <u><u><u></u> <u><u></u> <u> </u></u></u></u>	richi Matsuno	Transf May har
		· · · · · · · · · · · · · · · · · · ·

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

048100372

PATENT REEL: 031522 FRAME: 0983

Toshiba's Rof.: AMG065228USA-A

## 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 STORAGE DEVICE AND MANUFACTURING 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 14/019.722 filed on September 6,2013
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 a place of business at: 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, 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: Yoshihiro YANAI Date: 18th Oct. 2013
Signature: Yorihira Youan

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

1048100372

PATENT REEL: 031522 FRAME: 0984

**RECORDED: 10/31/2013**