506357573 11/17/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6404327

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TERUYUKI OHASHI	10/16/2020
HIROSHI KONO	10/16/2020
MASARU FURUKAWA	09/29/2020

RECEIVING PARTY DATA

Name:	KABUSHIKI KAISHA TOSHIBA
Street Address:	1-1, SHIBAURA 1-CHOME
City:	MINATO-KU, TOKYO
State/Country:	JAPAN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17014082

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: wsmith@oblon.com
Correspondent Name: OBLON, ET AL.
Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	532585US
NAME OF SUBMITTER:	WILLIAM SMITH
SIGNATURE:	/William Smith/
DATE SIGNED:	11/17/2020

Total Attachments: 3

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PATENT 506357573 REEL: 054384 FRAME: 0191

DECLARATION (37 CFR 1,63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

SEMICONDUCTOR DEVICE

Title of

	*				•
As the below name	d inventor, I hereby decl	are that:	······································	receitable de la capatria de la capa	
This declaration 🗵	The attached application	on, or			
is directed to:	United States applicati	on or PCT international a	pplication nu	umber	TOTAL CONTROL OF THE PROPERTY
The above-identifie	d application was made	or authorized to be made	by me.		
I believe that I am t	he original inventor or a	n original joint inventor o	f a claimed i	nvention in the	application.
WHEREAS, KAI	BUSHIKI KAISHA TOS	SHIBA			and the second second
(hereinafter referred Japan, is desirous	I to as "ASSIGNEE") hof acquiring the entire r	aving places of business ight, title and interest in United States and its te	and to said i	invention and in	and to any Letters
acknowledged, and said ASSIGNEE, th and in all foreign co other relevant Inter- interest in and to an	for other good and value full and exclusive right that the control of the right and the right of the right and the	of the sum of FIVE DO table consideration, I, by at to the said invention in ght to claim priority underangements from the afort which may be granted ountries and in and to	these present the United for the terms of resaid applications in	nts do sell, assig States and its ter of the Internation ation) and the entitle United State	n and transfer unto ritorial possessions nal Convention and ntire right, title and as and its territorial
any and all foreign assignee of my entir (his) successors and	countries to issue any re right, title and interes assigns, to the full end	t Office Officials in the land all of said Letters Patin and to the same, for the term for which say me had this Assignment	itent, when g the sole use aid Letters P	granted, to said and behoof of s Patent may be gr	ASSIGNEE as the
Further, I agree respecting said inv continuation, substit all of said Letters I possible to aid said	that I will communicate ention, and testify in ute, renewal and reissur- patent to be issued to s ASSIGNEE, its (his) s	to said ASSIGNEE or it any legal proceeding, so applications, execute all aid ASSIGNEE, make a uccessors and assigns, to rial possessions and in any	its (his) reprised the first its second its	esentatives any ful papers, execussignment paper aths, and, gener enforce proper	cute all divisional, is to cause any and cally do everything
I hereby acknowl by fine or imprisonn	edge that any willful fal	se statement made in this (c) years, or both.	declaration	is punishable un	der 18 U.S.C. 1001
LEGAL NAME OF	INVENTOR	idel til definne glade med nigen deg mårste med sig skipling er men negnete se pross ser pross		· · · · · · · · · · · · · · · · · · ·	<i>y</i> .
Inventor: Teruyuk	i OHASHI		Date:	16/oct	/2020
Signature: To	ruguki Ohas	hi	egyspethath a		Alleghammen (10 mg/d/mg/d/mg/dmg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m

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

PATENT REEL: 054384 FRAME: 0192

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 SEMICONDUCTOR DEVICE Invention
As the below named inventor, I hereby declare that:
This declaration \(\sum \) The attached application, or
is directed to: United States application or PCT international application number
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, 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: Hiroshi KONO Date: 10/16/2020
Signature: Idiroshi Kono

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 054384 FRAME: 0193

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 DEVICE	
As the below named	l inventor, I hereby declare that:	
1	The attached application, or	
<u> </u>	United States application or PCT international application number	
The above-identified	d application was made or authorized to be made by me.	
I believe that I am th	ne original inventor or an original joint inventor of a claimed invention in the application.	
	BUSHIKI KAISHA TOSHIBA	
Japan, is desirous o	to as "ASSIGNEE") having places of business at: 1-1, Shibaura 1-chome, Minato-ku, Tokyo, of acquiring the entire right, title and interest in and to said invention and in and to any Letters granted therefore in the United States and its territorial possessions and in any and all foreign	
acknowledged, and is said ASSIGNEE, the and in all foreign co- other relevant Intern- 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 e 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 Treaties and Arrangements from the aforesaid application) and the entire right, title and may 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 entire (his) successors and	the 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 assigns, 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.		
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 _	
Inventor: Masaru F	FURUKAWA Date: 29/SEP/2020	
Signature: Masa	iru Furukawa	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
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RECORDED: 11/17/2020