507107334 02/02/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7154173

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AYA SHINDOME	01/24/2022
YOSUKE KAJIWARA	01/21/2022
MASAHIKO KURAGUCHI	01/21/2022

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17590866	

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: mstewart@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	541600US	
NAME OF SUBMITTER:	MAKEDA STEWART	
SIGNATURE:	/Makeda Stewart/	
DATE SIGNED:	02/02/2022	

Total Attachments: 3 source=ASN#page1.tif source=ASN#page2.tif source=ASN#page3.tif

PATENT 507107334 REEL: 058855 FRAME: 0364

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: Aya SHINDOME Date: Jan. 24, 2022				
Signature:/Aya SHINDOME/				

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 058855 FRAME: 0365

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 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 internal filed on	national application num	
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 is	nventor of a claimed inv	vention in the application.
(hereinafter referred Japan), is desirous	BUSHIKI KAISHA TOSHIBA d to as "ASSIGNEE") having places of of acquiring the entire right, title and in granted therefore in the United States	iterest in and to said in	vention and in and to any Letters
acknowledged, and said ASSIGNEE, the and in all foreign cother relevant Inter- interest in and to a	FORE, in consideration of the sum of I for other good and valuable consideration of the full and exclusive right to the said involuntries (including the right to claim prior antional Treaties and Arrangements from any and all Letters Patent which may be a any and all foreign countries and interewals thereof.	ion, I, by these presents vention in the United States ority under the terms of in the aforesaid applicate granted therefor in the	s do sell, assign and transfer unto ates and its territorial possessions the International Convention and ion) and the entire right, title and e United States and its territorial
any and all foreign assignee of my enti (his) successors an	ze and request the Patent Office Official countries to issue any and all of said ire right, title and interest in and to the sid assigns, to the full end of the term for would have been held by me had this A	Letters Patent, when gr ame, for the sole use ar r which said Letters Pat	anted, to said ASSIGNEE as the nd behoof of said ASSIGNEE, its tent may be granted, as fully and
respecting said in continuation, substall of said Letters possible to aid said	that I will communicate to said ASSIC vention, and testify in any legal procitute, renewal and reissue applications, e Patent to be issued to said ASSIGNEE ASSIGNEE, its (his) successors and a ited States and its territorial possessions	ecding, sign all lawful execute all necessary ass E, make all rightful oat assigns, to obtain and e	I papers, execute all divisional, signment papers to cause any and hs, and, generally do everything nforce proper protection for said
	reledge that any willful false statement ma ment of not more than five (5) years, or b		punishable under 18 U.S.C. 1001
LEGAL NAME OF	FINVENTOR		
Inventor: Yosuke	KAJIWARA	Date:	01/21/2022
Signature:	/Yosuke KAJIWARA/		

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

Signature:

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> **PATENT REEL: 058855 FRAME: 0366**

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 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 forcign 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 $18U.S.C.1001$ by fine or imprisonment of not more than five (5) years, or both.				
LEGAL NAME OF INVENTOR				
Inventor: Masahiko KURAGUCHI Date: 01/21/2022				
Signature: /Masahiko KURAGUCHI/				

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 058855 FRAME: 0367

RECORDED: 02/02/2022