06/01/2018 504940548

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4987294

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KENSUKE NAGAI	05/17/2018
TETSUYA NAKASHIMA	05/07/2018
YUTAKA KUROIWA	05/07/2018
HIROYUKI HIJIYA	05/07/2018
MASAMICHI TANIDA	05/07/2018
AKIO KOIKE	05/14/2018
MANABU NISHIZAWA	05/09/2018
KAZUO TSUBOTA	05/18/2018
TOSHIHIDE KURIHARA	05/17/2018
HIDEMASA TORII	05/18/2018

RECEIVING PARTY DATA

Name:	ASAHI GLASS COMPANY, LIMITED
Street Address:	5-1, Marunouchi 1-chome, Chiyoda-ku
City:	Tokyo
State/Country:	Japan
Postal Code:	100-8405
	TOURS TALL ARGRATORY (1) 10
Name:	TSUBOTA LABORATORY, INC.
Street Address:	26-35, MINAMI-AOYAMA 2-CHOME, MINATO-KU
	,
Street Address:	26-35, MINAMI-AOYAMA 2-CHOME, MINATO-KU

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15995379

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

> **PATENT** REEL: 045960 FRAME: 0442

504940548

Email: mkocijanski@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	514121US
NAME OF SUBMITTER:	MEGHAN KOCIJANSKI
SIGNATURE:	/Meghan Kocijanski/
DATE SIGNED:	06/01/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 10

source=514121USASN#page1.tif

source=514121USASN#page2.tif

source=514121USASN#page3.tif

source=514121USASN#page4.tif

source=514121USASN#page5.tif

source=514121USASN#page6.tif

source=514121USASN#page7.tif

source=514121USASN#page8.tif

source=514121USASN#page9.tif

source=514121USASN#page10.tif

Title of (GLASS	
As the below named	inventor, I hereby declare that:	
This declaration 🛛	The attached application, or	
formula 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.	
(hereinafter referred Tokyo 100-8405 Japa 107-0062 Japan (Tsu right, title and interes	Glass Company, Limited and Tsubota Laboratory, Inc. to as "ASSIGNEES") having places of business at: 5-1, Marunouchi 1-chome, Chiyoda-ku, an (Asahi Glass Company, Limited) and 26-35, Minami-Aoyama 2-chome, Minato-ku, Tokyo abota Laboratory, Inc.), respectively are desirous of jointly acquiring interests in the entire at in and to said invention and in and to any Letters Patent that may be granted therefore in the territorial possessions and in any and all foreign countries;	
acknowledged, and for said ASSIGNEES, the and in all foreign cou other relevant Internating interest in and to any	ORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby or 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 not 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 and all Letters Patent which may be granted therefor in the United States and its territorial and all foreign countries and in and to any and all divisions, reissues, continuations, wals thereof.	
any and all foreign co assignees of my entir their successors and a	and request the Patent Office Officials in the United States and its territorial possessions and puntries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the re right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, assigns, to the full end of the term for which said Letters Patent may be granted, as fully and yould have been held by me had this Assignment and sale not been made.	
Further, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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 acknowled by fine or imprisonme	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 on of not more than five (5) years, or both.	
LEGAL NAME OF IT	NVENTOR	
Inventor: Kensuke N	NAGAI Date: 05/17/20/8	
Signature: Ke	nsufe Nagai	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of GLASS 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 filed on	
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, Asahi Glass Company, Limited and Tsubota Laboratory, Inc.	
(hereinafter referred to as "ASSIGNEES") having places of business at: 5-1 Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8405 Japan (Asahi Glass Company, Limited) and 26-35, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-0062 Japan (Tsubota Laboratory, Inc.), respectively are desirous of jointly acquiring interests in 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 ASSIGNEES, 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 ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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 ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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: Tetsuya NAKASHIMA Date: May 7, 2018	
7-0'1	

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

ALEXANDRIA, VIRGINIA 22314

Title of GLASS 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, Asahi Glass Company, Limited and Tsubota Laboratory, Inc.	
(hereinafter referred to as "ASSIGNEES") having places of business at: 8-1 , Marunouchi 1-chome, Chivoda-ku, Tokvo 100-8403 Japan (Asshi Glass Company, Limited) and 26-35, Minami-Aovama 2-chome, Minato-ku, Tokvo 107-0062 Japan (Tsubota Laboratory, Inc.) , respectively are desirous of jointly acquiring interests in 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 ASSIGNEES, 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 ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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 ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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: Yutaka KUROIWA Date: May 7 2018	
Simming Mattake Warner and	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	GLASS	
As the below named	I 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	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.	
WHEREAS, Asal	ii Glass Company, Limited and Tsubota Laboratory, Inc.	
Tokyo 100-8405 Ja 107-0062 Japan (Tright, title and inter-	I to as "ASSIGNEES") having places of business at: 5-1, Margnouchi 1-chome, Chiyoda-ku, pan (Asahi Glass Company, Limited) and 26-35. Minami-Aoyama 2-chome, Minato-ku, Tokyo subota Laboratory, Inc.), respectively are desirous of jointly acquiring interests in the entire est in and to said invention and in and to any Letters Patent that may be granted therefore in the sterritorial possessions and in any and all foreign countries;	
acknowledged, and said ASSIGNEES, t and in all foreign co other relevant Inter- interest in and to a	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 he full and exclusive right to the said invention in the United States and its territorial possessions ountries (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 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 assignees of my en their successors and	te 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 ASSIGNEES as the tire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, 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 ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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.		
	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: Hiroyuk	i НШҮА Date: <u>М~7 · 7 · 2 ° / 8</u>	
Signature: Hire	**************************************	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

I itle of Invention	GLASS
As the below name	d inventor, I hereby declare that:
This declaration 🗵	The attached application, or
is directed to:	United States application or PCT international application number
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.
WHEREAS, Asa	hi Glass Company, Limited and Tsubota Laboratory, Inc.
Tokyo 100-\$405 Ja 107-0062 Japan (T right, title and inter	d to as "ASSIGNEES") having places of business at: 5-1, Marunouchi 1-chome, Chiyoda-ku, apan (Asahi Glass Company, Limited) and 26-35, Minami-Aoyama 3-chome, Minato-ku, Tokyo subcia Laboratory, Inc.), respectively are desirous of jointly acquiring interests in the entire rest in and to said invention and in and to any Letters Patent that may be granted therefore in the is territorial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEES, and in all foreign co 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 the full and exclusive right to the said invention in the United States and its territorial possessions countries (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 assignees of my en their successors and	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 ASSIGNEES as the tire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, d 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.
respecting said inv continuation, substi- all of said Letters I possible to aid said	that I will communicate to said ASSIGNEES or their representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, tute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said ited States and its territorial possessions and in any and all foreign countries.
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: Masami	chi TANIDA Date: May 720/8
Signature:	my Torison of C

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	GLASS
As the below name	od inventor, I hereby declare that:
This declaration [The attached application, or
is directed to:	United States application or PCT international application number filed on
The above-identific	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 Tokyo 100-8405 J 107-0062 Japan (1 right, title and inte	thi Glass Company, Limited and Tsubota Laboratory, Inc. Indicate to as "ASSIGNEES") having places of business at: 5-1, Manusouchi I-chome, Chiyoda-ku, apan (Asahi Glass Company, Limited) and 26-35, Minami-Aoyama 2-chome, Minato-ku, Tokyo (Subota Laboratory, Inc.), respectively are desirous of jointly acquiring interests in the entire rest in and to said invention and in and to any Letters Patent that may be granted therefore in the ts territorial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEES, 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 I for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and mational Treaties and Arrangements from the aforesaid application) and the entire right, title and any and all Letters Patent which may be granted therefor in the United States and its territorial and any and all foreign countries and in and to any and all divisions, reissues, continuations, mewals thereof.
any and all foreign assignees of my e their successors an	ize 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 ASSIGNEES as the ntire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, 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.
Further, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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.	
	dedge 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 O	INVENTOR
Inventor: Akio K	OIKE Date: 1/24/2/14, 2018
Signature:	

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

Invention	GLASS **
As the below name	d inventor, I hereby declare that:
This declaration [The attached application, or
is directed to:	United States application or PCT international application number
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.
	hi Glass Company, Limited and Tsubota Laboratory, Inc.
Tokyo 100-8405 Ja 107-0062 Japan (T right, title and inter	d to as "ASSIGNEES") having places of business at: 5-1, Marunouchi 1-chome, Chiyoda-ku, apan (Asahi Glass Company, Limited) and 26-35, Minami-Aoyama 2-chome, Minato-ku, Tokyo subota Laboratory, Inc.), respectively are desirous of jointly acquiring interests in the entire est in and to said invention and in and to any Letters Patent that may be granted therefore in the sterritorial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEES, and in all foreign or 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 the full and exclusive right to the said invention in the United States and its territorial possessions ountries (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 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 assignees of my en their successors and	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 ASSIGNEES as the stire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, it 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 ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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: Manabu	NISHIZAWA Date: Ay 9,2019
Signature: Mass	My Mahijana

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

Title of Invention	GLASS	
As the below name	d inventor, I hereby declare that:	
This declaration	The attached application, or	
is directed to:	United States application or PCT international application number filed on	
The above-identified 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.	
WHEREAS, Asa	hi Glass Company, Limited and Tsubota Laboratory, Inc.	
Tokyo 100-8405 Ja 107-0062 Japan (Tright, title and inter	d to as "ASSIGNEES") having places of business at: <u>5-1, Marunouchi 1-chome, Chiyoda-ku, apan (Asahi Glass Company, Limited) and 26-35, Minami-Aoyama 2-chome, Minato-ku, Tokyo subota Laboratory, Inc.)</u> , respectively are desirous of jointly acquiring interests in the entire est in and to said invention and in and to any Letters Patent that may be granted therefore in the sterritorial possessions and in any and all foreign countries;	
acknowledged, and said ASSIGNEES, and in all foreign co 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 the 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 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 assignees of my en their successors and	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 ASSIGNEES as the stire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, 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 ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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.		
	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: Kazup	ISUBOTA Date: May (8, 2018	
Signature:	511) / 10/	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Invention	GLASS	
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-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 referred Tokyo 100-8405 Ja 107-0062 Japan (Tright, title and inter	hi Glass Company, Limited and Tsubota Laboratory, Inc. d to as "ASSIGNEES") having places of business at: <u>5-1, Marunouchi 1-chome, Chiyoda-ku, apan (Asahi Glass Company, Limited) and 26-35, Minami-Aoyama 2-chome, Minato-ku, Tokyo subota Laboratory, Inc.)</u> , respectively are desirous of jointly acquiring interests in the entire test in and to said invention and in and to any Letters Patent that may be granted therefore in the sterritorial possessions and in any and all foreign countries;	
acknowledged, and said ASSIGNEES, and in all foreign co 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 the full and exclusive right to the said invention in the United States and its territorial possessions ountries (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 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 assignees of my er their successors and	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 ASSIGNEES as the stire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, 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.	
Further, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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.		
	ledge 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		
Inventor: Toshihi	de KURIHARA Date: 20 (\$ /\$///)	
Signature:	· 阪、 / 後 夢	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	GLASS	
As the below name	d 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 t	the original inventor or an original joint inventor of a claimed invention in the application.	
(hereinafter referre Tokyo 100-8405 Ja 107-0062 Japan (T right, title and inter	thi Glass Company, Limited and Tsubota Laboratory, Inc. d to as "ASSIGNEES") having places of business at: 5-1, Marunouchi 1-chome, Chiyoda-ku, apan (Asahi Glass Company, Limited) and 26-35, Minami-Aoyama 2-chome, Minato-ku, Tokyo Subota Laboratory, Inc.), respectively are desirous of jointly acquiring interests in the entire rest in and to said invention and in and to any Letters Patent that may be granted therefore in the ts territorial possessions and in any and all foreign countries;	
acknowledged, and said ASSIGNEES, and in all foreign co 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 the full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and mational Treaties and Arrangements from the aforesaid application) and the entire right, title and any 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, mewals thereof.	
any and all foreign assignees of my er their successors and	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 ASSIGNEES as the ntire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, 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.	
Further, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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.		
	rledge 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		
Inventor: Hidema	sa TORII Date: May 18, 2018	
Signature: Hide	mare down	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 045960 FRAME: 0453

RECORDED: 06/01/2018