#### 503411574 07/28/2015

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3458208

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RYO MIYABE	07/17/2015
KEIICHI AISO	07/17/2015
NAOMI KUMANO	07/16/2015

### **RECEIVING PARTY DATA**

Name:	FURUKAWA ELECTRIC CO., LTD.	
Street Address:	2-3, MARUNOUCHI 2-CHOME, CHIYODA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	100-8322	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14810876

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

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	457340US8CONT
NAME OF SUBMITTER:	GI YOON
SIGNATURE:	/GI YOON/
DATE SIGNED:	07/28/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 3**

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> **PATENT REEL: 036195 FRAME: 0550** 503411574

### 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	Now You are no property of the
THARMHON	METHOD OF PRODUCING GLASS PREFORM AND OPTICAL FIBER
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	ed 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 100-8322 Ja	RUKAWA ELECTRIC CO., LTD.  Id to as "ASSIGNEE") having places of business at: 2-3, Marunouchi 2-chome, Chiyoda-ku, upan, is desirous of acquiring the entire right, title and interest in and to said invention and in and in that may be granted therefore in the United States and its territorial possessions and in any and s;
acknowledged, and said ASSIGNEE, the 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 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, mewals thereof.
any and all foreign assignee of my enti (his) successors and	ze 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 ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its 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.
respecting said inv continuation, substi all of said Letters possible to aid said	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, itute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything it ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said ited 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 OF	INVENTOR
Inventor: Ryo MI	YABE Date: 20/5/07//7
Signature:	Ryo miyalu

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 036195 FRAME: 0551

## 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	METHOD OF PRODUCING GLASS PREF	ORM AND OPTICAL FIBER
As the below named	d inventor, I hereby declare that:	-
This declaration 🏻	The attached application, or	•
is directed to:	United States application or PCT international app filed on	lication number
The above-identified	d application was made or authorized to be made by	me,
I believe that I am th	he original inventor or an original joint inventor of a	claimed invention in the application.
(hereinafter referred Tokyo 100-8322 Jap	RUKAWA ELECTRIC CO., LTD.  d to as "ASSIGNEE") having places of business a pan, is desirous of acquiring the entire right, title ar at that may be granted therefore in the United States ;	nd interest in and to said invention and in and
acknowledged, and said ASSIGNEE, th and in all foreign co other relevant Interr interest in and to an	ORE, in consideration of the sum of FIVE DOLL for other good and valuable consideration, I, by the full and exclusive right to the said invention in the nuntries (including the right to claim priority under treational Treaties and Arrangements from the afores my and all Letters Patent which may be granted the any and all foreign countries and in and to any newals thereof.	nese presents do sell, assign and transfer unto the United States and its territorial possessions the terms of the International Convention and said application) and the entire right, title and terefor in the United States and its territorial
any and all foreign assignee of my entir (his) successors and	ze and request the Patent Office Officials in the Un countries to issue any and all of said Letters Pater re right, title and interest in and to the same, for the d assigns, to the full end of the term for which said would have been held by me had this Assignment and	ent, when granted, to said ASSIGNEE as the e sole use and behoof of said ASSIGNEE, its I Letters Patent may be granted, as fully and
respecting said invocentinuation, substituall of said Letters I possible to aid said	that I will communicate to said ASSIGNEE or its rention, and testify in any legal proceeding, sign tute, renewal and reissue applications, execute all nepatent to be issued to said ASSIGNEE, make all ASSIGNEE, its (his) successors and assigns, to o ted States and its territorial possessions and in any a	n all lawful papers, execute all divisional, ecessary assignment papers to cause any and rightful oaths, and, generally do everything obtain and enforce proper protection for said
I hereby acknowl by fine or imprisonn	ledge that any willful false statement made in this de nent of not more than five (5) years, or both.	eclaration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	INVENTOR	
Inventor: Keiichi A	AISO	Date: July 17, 2015
Signature:	eichi Ciso-	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 036195 FRAME: 0552

# 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 METHOD OF PRODUCING GLASS PREFORM AND OPTICAL FIBER
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, FURUKAWA ELECTRIC CO., LTD.  (hereinafter referred to as "ASSIGNEE") having places of business at: 2-3, Marunouchi 2-chome. Chivoda-ku. Tokvo 100-8322 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: Naomi KUMANO Date: July 16, 2015
Signature: Naismi Kumano

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

PATENT REEL: 036195 FRAME: 0553

**RECORDED: 07/28/2015**