PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4995067

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZYUNPEI WATANABE	04/27/2018
HIROKI TANAKA	04/27/2018
KENICHI SUYAMA	04/27/2018
YOSHIHIRO ARASHITANI	05/08/2018

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:	16001985

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.

(703) 413-3000 Phone: Email: AAdams@oblon.com **Correspondent Name:** OBLON, ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	514057US
NAME OF SUBMITTER:	ARIELLE ADAMS
SIGNATURE:	/Arielle Adams/
DATE SIGNED:	06/07/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

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PATENT REEL: 046009 FRAME: 0161

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Title of Invention	BARE OPTICAL FIBER MANUFACTURING METHOD AND ULTRAVIOLET IRRADIATION 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 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 referre	RUKAWA ELECTRIC CO., LTD. d to as "ASSIGNEE") having places of business at: 2-3, Marunouchi 2-chome, Chiyoda-ku, pan, is desirous of acquiring the entire right, title and interest in and to said invention and in and at that may be granted therefore in the United States and its territorial possessions and in any and s;
acknowledged, and said ASSIGNEE, it and in all foreign or other relevant Interinterest in and to a possessions and in substitutions and re	
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 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 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 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, tute, 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 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.
	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
Inventor: Zyunpei	
Signature:	31/11/pei Matanabe

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

Title of BARE OPTICAL FIBER MANUFACTURING METHOD AND ULTRAVIOLET IRRADIATION DEVICE	
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, Chiyoda-ku, Tokyo 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: Hiroki TANAKA Date: Apri/ 27th, 2018	
Signature: / dirofei Janaka	

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

Title of Invention	BARE OPTICAL FIBER MANUFACTURING METHOD AND ULTRAVIOLET IRRADIATION DEVICE
As the below named	l inventor, I hereby declare that:
This declaration 🛛	The attached application, or
is directed to:	United States application or PCT international application number filed on
	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.
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by fine or imprisonment of not more than five (5) years, or both.	
LEGAL NAME OF	INVENTOR
Inventor: Kenichi	SUYAMA Date: Apr. 27, 20/8
Signature:	[] () () () () () () () () () (

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

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

	BARE OPTICAL FIBER MANUFACTURING METHOD AND ULTRAVIOLET
Title of Invention	IRRADIATION DEVICE
As the below name	d inventor, I hereby declare that:
	The attached application, or
	United States application or PCT international application number
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 100-8322 Ja to any Letters Pate all foreign countries	RUKAWA ELECTRIC CO., LTD. ed to as "ASSIGNEE") having places of business at: 2-3, Marunouchi 2-chome, Chiyoda-ku, apan, is desirous of acquiring the entire right, title and interest in and to said invention and in and nt that may be granted therefore in the United States and its territorial possessions and in any and es;
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.	
any and all foreign assignee of my end (his) successors an entirely as the sam	ize and request the Patent Office Officials in the United States and its territorial possessions and an countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the tire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its ad assigns, to the full end of the term for which said Letters Patent may be granted, as fully and e would have been held by me had this Assignment and sale not been made.
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I hereby acknown by fine or imprisor	wledge 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	F INVENTOR
Inventor: Yoshil	niro ARASHITANI Date: May 8th, 2018
Signature:	打子各层家

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 046009 FRAME: 0166

RECORDED: 06/07/2018