

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ryo MARUYAMA</td> <td>07/05/2013</td> </tr> <tr> <td>Nobuo KUWAKI</td> <td>07/04/2013</td> </tr> <tr> <td>Shoichiro MATSUO</td> <td>07/16/2013</td> </tr> <tr> <td>Masaharu OHASHI</td> <td>07/05/2013</td> </tr> </tbody> </table>		Name	Execution Date	Ryo MARUYAMA	07/05/2013	Nobuo KUWAKI	07/04/2013	Shoichiro MATSUO	07/16/2013	Masaharu OHASHI	07/05/2013
Name	Execution Date										
Ryo MARUYAMA	07/05/2013										
Nobuo KUWAKI	07/04/2013										
Shoichiro MATSUO	07/16/2013										
Masaharu OHASHI	07/05/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Fujikura Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>1-5-1, Kiba, Koto-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>135-8512</td> </tr> </table>		Name:	Fujikura Ltd.	Street Address:	1-5-1, Kiba, Koto-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	135-8512
Name:	Fujikura Ltd.										
Street Address:	1-5-1, Kiba, Koto-ku										
City:	Tokyo										
State/Country:	JAPAN										
Postal Code:	135-8512										
<table border="1"> <tr> <td>Name:</td> <td>Osaka Prefecture University Public Corporation</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Gakuen-cho, Naka-ku</td> </tr> <tr> <td>City:</td> <td>Sakai-shi, Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>599-8531</td> </tr> </table>		Name:	Osaka Prefecture University Public Corporation	Street Address:	1-1, Gakuen-cho, Naka-ku	City:	Sakai-shi, Osaka	State/Country:	JAPAN	Postal Code:	599-8531
Name:	Osaka Prefecture University Public Corporation										
Street Address:	1-1, Gakuen-cho, Naka-ku										
City:	Sakai-shi, Osaka										
State/Country:	JAPAN										
Postal Code:	599-8531										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13948664</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13948664						
Property Type	Number										
Application Number:	13948664										
CORRESPONDENCE DATA											
Fax Number:	2028221111										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	202-822-1100										
Email:	patentmail@whda.com										
Correspondent Name:	WESTERMAN, HATTORI, DANIELS & ADRIAN, LL										
Address Line 1:	1250 CONNECTICUT AVENUE, NW										

OP \$40.00 13948664

Address Line 2: SUITE 700  
Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20036

ATTORNEY DOCKET NUMBER: 130853

NAME OF SUBMITTER: Crystal Boyer

Signature: /Crystal Boyer/

Date: 07/23/2013

This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4**

source=130853\_Declaration,\_Assignment\_07\_23\_2013#page1.tif

source=130853\_Declaration,\_Assignment\_07\_23\_2013#page2.tif

source=130853\_Declaration,\_Assignment\_07\_23\_2013#page3.tif

source=130853\_Declaration,\_Assignment\_07\_23\_2013#page4.tif

## Combined Declaration and Assignment for Utility Patent and Design Patent Applications

### DECLARATION

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

Insert Title:

OPTICAL FIBER AND OPTICAL TRANSMISSION LINE

the application of which is attached hereto unless the following is checked

☐ was filed on \_\_\_\_\_ as United States Application Number \_\_\_\_\_ and was filed on \_\_\_\_\_ as PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

### ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the adequacy and receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) by

Insert Assignee(s)  
Name/Address:

①Fujikura Ltd.  
1-5-1, Kiba, Koto-ku, Tokyo 135-8512 Japan  
②Osaka Prefecture University Public Corporation  
1-1, Gakuen-cho, Naka-ku, Sakai-shi, Osaka 599-8531 Japan

(hereinafter ASSIGNEE), the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the above-identified application (e.g., provisional or non-provisional) and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue, reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue, reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

The ASSIGNOR sells, assigns and transfers to said ASSIGNEE the entire and exclusive right, title and interest to the application(s) and the invention(s) disclosed therein for the United States of America and all countries foreign to the United States and do hereby authorize said ASSIGNEE to apply for patents therefore in its own name in countries where such procedure is proper and to claim the priority right under the International Convention and agrees to execute all papers

Docket No.:

Westerman, Hattori, Daniels & Adrian, LLP

necessary in connection with applications for such patents and any continuation, divisional, substitute, reissue or reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof and also execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

Hereby executed by the undersigned on the date opposite the undersigned name:

Legal Name of inventor ⇒ MARUYAMA, Ryo Date: 5 July 2013

Inventor's Signature ⇒ Ryo Maruyama

Legal Name of inventor ⇒ KUWAKI, Nobuo Date: 4 July 2013

Inventor's Signature ⇒ Nobuo Kuwaki

Legal Name of inventor ⇒ MATSUO, Shoichiro Date: 16. July 2013

Inventor's Signature ⇒ Shoichiro Matsu

Legal Name of inventor ⇒ OHASHI, Masaharu Date: \_\_\_\_\_

Inventor's Signature ⇒ \_\_\_\_\_

Legal Name of inventor ⇒ \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Signature ⇒ \_\_\_\_\_

Legal Name of inventor ⇒ \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Signature ⇒ \_\_\_\_\_

Note: Use an additional form for each additional inventor.

## Combined Declaration and Assignment for Utility Patent and Design Patent Applications

### DECLARATION

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

Insert Title:

OPTICAL FIBER AND OPTICAL TRANSMISSION LINE

the application of which is attached hereto unless the following is checked

☐ was filed on \_\_\_\_\_ as United States Application Number \_\_\_\_\_ and was filed on \_\_\_\_\_ as PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

### ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the adequacy and receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) by

Insert Assignee(s)  
Name/Address:

①Fujikura Ltd.  
1-5-1, Kiba, Koto-ku, Tokyo 135-8512 Japan  
②Osaka Prefecture University Public Corporation  
1-1, Gakuen-cho, Naka-ku, Sakai-shi, Osaka 599-8531 Japan

(hereinafter ASSIGNEE), the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the above-identified application (e.g., provisional or non-provisional) and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue, reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue, reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

The ASSIGNOR sells, assigns and transfers to said ASSIGNEE the entire and exclusive right, title and interest to the application(s) and the invention(s) disclosed therein for the United States of America and all countries foreign to the United States and do hereby authorize said ASSIGNEE to apply for patents therefore in its own name in countries where such procedure is proper and to claim the priority right under the International Convention and agrees to execute all papers

Docket No.:

Westerman, Hattori, Daniels & Adrian, LLP

necessary in connection with applications for such patents and any continuation, divisional, substitute, reissue or reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof and also execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

Hereby executed by the undersigned on the date opposite the undersigned name:

Legal Name of inventor ⇒ MARUYAMA, Ryo Date: \_\_\_\_\_

Inventor's Signature ⇒ \_\_\_\_\_

Legal Name of inventor ⇒ KUWAKI, Nobuo Date: \_\_\_\_\_

Inventor's Signature ⇒ \_\_\_\_\_

Legal Name of inventor ⇒ MATSUO, Shoichiro Date: \_\_\_\_\_

Inventor's Signature ⇒ \_\_\_\_\_

Legal Name of inventor ⇒ OHASHI, Masaharu Date: July 5, 2013

Inventor's Signature ⇒ 天 橋 正 博

Legal Name of inventor ⇒ \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Signature ⇒ \_\_\_\_\_

Legal Name of inventor ⇒ \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Signature ⇒ \_\_\_\_\_

Note: Use an additional form for each additional inventor.