

## PATENT ASSIGNMENT

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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>Takatoyo YAMAKAMI</td> <td>11/06/2012</td> </tr> <tr> <td>Takashi KUBOTA</td> <td>11/06/2012</td> </tr> <tr> <td>Kuniko ISHIKAWA</td> <td>11/06/2012</td> </tr> <tr> <td>Hidehiko KIRA</td> <td>11/06/2012</td> </tr> </tbody> </table>		Name	Execution Date	Takatoyo YAMAKAMI	11/06/2012	Takashi KUBOTA	11/06/2012	Kuniko ISHIKAWA	11/06/2012	Hidehiko KIRA	11/06/2012		
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<table border="1"> <tr> <td>Name:</td> <td>FUJITSU LIMITED</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Kamikodanaka 4-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Nakahara-ku</td> </tr> <tr> <td>City:</td> <td>Kawasaki-shi, Kanagawa</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>211-8588</td> </tr> </table>		Name:	FUJITSU LIMITED	Street Address:	1-1, Kamikodanaka 4-chome	Internal Address:	Nakahara-ku	City:	Kawasaki-shi, Kanagawa	State/Country:	JAPAN	Postal Code:	211-8588
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CORRESPONDENCE DATA													
<p>Fax Number: 7037207801  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703-720-7800        IPGENERALTYC@SQUIRESANDERS.COM,</p> <p>Email: sonia.whitney@squiresanders.com,        douglas.goldhush@squiresanders.com</p> <p>Correspondent Name: Squire Sanders (US) LLP        Address Line 1: 8000 TOWERS CRESCENT DRIVE        Address Line 2: 14TH FLOOR        Address Line 4: VIENNA, VIRGINIA 22182-6212</p>													
ATTORNEY DOCKET NUMBER:	105755.00080												
NAME OF SUBMITTER:	Douglas H. Goldhush												
<p>Total Attachments: 1        source=105755_00080-Assignment#page1.tif</p>													

OP \$40.00 13710670

## U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by  
(Insert Name(s) & Address(es) of ASSIGNEE(S))

FUJITSU LIMITED

1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled  
(Title of Invention)

METHOD OF MANUFACTURING OPTICAL WAVEGUIDE DEVICE AND OPTICAL  
WAVEGUIDE DEVICE

relating to International Patent Application PCT/JP\_\_\_\_\_/\_\_\_\_\_ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on \_\_\_\_\_; (Insert date of execution of application, if not concurrent)

(b) filed on \_\_\_\_\_

Serial No. \_\_\_\_/\_\_\_\_;

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1) <u>Takatoyo Yamakami</u> (Signature)	<u>TAKATOYO YAMAKAMI</u> (Type Name)	<u>Nov. 6, 2012</u> (Date)
2) <u>Takashi Kubota</u> (Signature)	<u>TAKASHI KUBOTA</u> (Type Name)	<u>Nov. 6, 2012</u> (Date)
3) <u>Kuniko Ishikawa</u> (Signature)	<u>kuniko Ishikawa</u> (Type Name)	<u>Nov. 6, 2012</u> (Date)
4) <u>Hidehiko Kira</u> (Signature)	<u>Hidehiko Kira</u> (Type Name)	<u>Nov. 6, 2012</u> (Date)