

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>Norihiro IWAI</td> <td>08/10/2012</td> </tr> <tr> <td>Hirotsu ISHII</td> <td>08/16/2012</td> </tr> </tbody> </table>		Name	Execution Date	Norihiro IWAI	08/10/2012	Hirotsu ISHII	08/16/2012
Name	Execution Date						
Norihiro IWAI	08/10/2012						
Hirotsu ISHII	08/16/2012						
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							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13594978</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13594978		
Property Type	Number						
Application Number:	13594978						
CORRESPONDENCE DATA							
Fax Number:	7035185499						
Phone:	7036841111						
Email:	bjhgroupp@ipfirm.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	LOWE HAUPTMAN HAM & BERNER, LLP						
Address Line 1:	1700 DIAGONAL ROAD						
Address Line 2:	SUITE 300						
Address Line 4:	ALEXANDRIA, VIRGINIA 22314						
ATTORNEY DOCKET NUMBER:	5195-019						
NAME OF SUBMITTER:	Benjamin J. Hauptman						
Total Attachments: 1 source=Assignment#page1.tif							

OP \$40.00 13594978

**ASSIGNMENT OF
US NON PROVISIONAL APPLICATION**

Attorney Docket No. 5195-019
 Client Ref. MP120131US
 JP Atty. Ref. FD-0079US

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to me as an undersigned inventor, the receipt and sufficiency of which are hereby acknowledged who at the request of, hereby sells, assigns and transfers unto:

**Furukawa Electric Co., Ltd.
 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8322 Japan**

(hereinafter designated "ASSIGNEE") my entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

INTEGRATED OPTICAL DEVICE AND MANUFACTURING METHOD OF THE SAME

for which I executed an inventor's declaration for Patent Application of the United States of America

- (A) even date herewith
 (B) in US or International Appln. No. filed on

AND I hereby authorize and request the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE (and any other assignee, if otherwise assigned), for its interest as ASSIGNEE, its successors, assigns and legal representatives; I agree that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND I hereby agree to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

I hereby authorize the US attorney of record to insert hereon any further identification necessary or desirable for recordation of this document.

	INVENTORS 発明者サイン	DATE SIGNED 日付	WITNESS 発明者サインを目視した人(省略可)
1):	<u>Norihiro Iwai</u>	<u>8/10/2012</u>	
Name:	Norihiro IWAI		Name:
2):	<u>Hirotsugu Ishii</u>	<u>8/16/2012</u>	
Name:	Hirotsugu ISHII		Name:
3):			Name:
4):			Name:
5):			Name:
6):			Name:
7):			Name:
8):			Name:
9):			Name:
10):			Name:
11):			Name:
12):			Name:

PATENT