

PATENT ASSIGNMENT COVER SHEET

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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>TAKURO SHINADA</td> <td>09/06/2013</td> </tr> <tr> <td>HARUKI KOYANAGI</td> <td>09/19/2013</td> </tr> </tbody> </table>		Name	Execution Date	TAKURO SHINADA	09/06/2013	HARUKI KOYANAGI	09/19/2013
Name	Execution Date						
TAKURO SHINADA	09/06/2013						
HARUKI KOYANAGI	09/19/2013						
RECEIVING PARTY DATA							
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City:	TOKYO						
State/Country:	JAPAN						
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>14072844</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14072844		
Property Type	Number						
Application Number:	14072844						
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NAME OF SUBMITTER:	JEFFREY A. WYAND						
Signature:	/Jeffrey A. Wyand/						
Date:	11/06/2013						
Total Attachments: 2 source=715498-assignment#page1.tif source=715498-assignment#page2.tif							

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COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: OPTICAL TRANSMITTING APPARATUS AND OPTICAL RECEIVING APPARATUS

DECLARATION

As an inventor named below, I hereby declare for:

- the attached patent application, or
 United States patent application or PCT international patent application number _____
 filed _____

that:

- (i) the patent application identified above was made or authorized to be made by me;
 (ii) I believe that I am the original inventor or an original joint inventor of an invention claimed in the patent application identified above; and
 (iii) 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 fine and imprisonment.

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which are acknowledged:

I sell, assign, and transfer to

Mitsubishi Electric Corporation
 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310, Japan

its successors, assigns, and legal representatives (hereinafter collectively 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(s) disclosed in the patent application identified above;

I authorize and request the United States Director of Patents and Trademarks to issue any and all United States Letters Patent which may be granted for the invention(s) disclosed in the patent application identified above, and any and all extensions, divisions, reissues, reexaminations, continuations, or continuations-in-part patent applications of the patent application identified above, and the right to all benefits under the Patent Corporation Treaty, and the international Convention for the Protection of Industrial Property to the ASSIGNEE, for its interest as ASSIGNEE; and

I agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, continuation, divisional, continuation-in-part, reissued, or reexamined Letters Patent of the United States, upon request of the ASSIGNEE, and without further remuneration, in and to any improvements, and applications for patent based on the patent application identified above, growing out of or related to the invention(s) disclosed in the patent application identified above, and to execute any papers of the ASSIGNEE, deemed essential to ASSIGNEE'S full protection and title in and to the invention(s) transferred by this Assignment.

Takuro ShinadaDate September 6, 2013

Printed Legal Name of First Inventor: Takuro SHINADA

Haruki Koyanagi Date September 19, 2013
Printed Legal Name of Second Inventor: Haruki KOYANAGI