

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TAKATOSHI KATO	10/08/2014
KAZUHIRO YAMAJI	10/08/2014
HIROMI KURASHIMA	10/08/2014
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<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	541-0041
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14515316
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<b>NAME OF SUBMITTER:</b>	MICHAEL A. SARTORI, PH.D.
<b>SIGNATURE:</b>	/MICHAEL A. SARTORI, PH.D./
<b>DATE SIGNED:</b>	10/15/2014
<b>Total Attachments: 1</b> source=Assignment#page1.tif	

**ASSIGNMENT**

Whereas, I/we,

<u>Name</u>	<u>Address</u>
1) Takatoshi KATO	c/o Yokohama Works of Sumitomo Electric Industries, Ltd., 1, Taya-cho, Sakae-ku, Yokohama-shi, Kanagawa 244-8588 Japan
2) Kazuhiro YAMAJI	c/o Yokohama Works of Sumitomo Electric Industries, Ltd., 1, Taya-cho, Sakae-ku, Yokohama-shi, Kanagawa 244-8588 Japan
3) Hiromi KURASHIMA	c/o Yokohama Works of Sumitomo Electric Industries, Ltd., 1, Taya-cho, Sakae-ku, Yokohama-shi, Kanagawa 244-8588 Japan

hereinafter called assignor(s), have invented certain improvements in  
**FULL-DUPLEX OPTICAL TRANSCEIVER APPLICABLE TO DIGITAL COHERENT SYSTEM**

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:

filed on \_\_\_\_\_, Serial No. \_\_\_\_\_; and

Whereas

SUMITOMO ELECTRIC INDUSTRIES, LTD.  
5-33, Kitahama 4-chome, Chuo-ku,  
Osaka-shi, Osaka 541-0041 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

INVENTORSDATE SIGNED

1) :	<u>Takatoshi Kato</u>	<u>Oct. 8, 2014</u>
Name :	Takatoshi KATO	
2) :	<u>Kazuhiro Yamaji</u>	<u>Oct. 8, 2014</u>
Name :	Kazuhiro YAMAJI	
3) :	<u>Hiromi Kurashima</u>	<u>Oct. 8, 2014</u>
Name :	Hiromi KURASHIMA	

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

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