

## 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>Tomoko Ikagawa</td> <td>04/17/2013</td> </tr> <tr> <td>Keiji Tanaka</td> <td>04/17/2013</td> </tr> </tbody> </table>		Name	Execution Date	Tomoko Ikagawa	04/17/2013	Keiji Tanaka	04/17/2013
Name	Execution Date						
Tomoko Ikagawa	04/17/2013						
Keiji Tanaka	04/17/2013						
RECEIVING PARTY DATA							
Name:	SUMITOMO ELECTRIC INDUSTRIES, LTD.						
Street Address:	5-33, Kitahama 4-chome, Chuo-ku						
City:	Osaka-shi, Osaka						
State/Country:	JAPAN						
Postal Code:	541-0041						
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>13653958</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13653958		
Property Type	Number						
Application Number:	13653958						
CORRESPONDENCE DATA							
Fax Number:	2023448300						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	202-344-4000						
Email:	kadkins@venable.com, ptomail@venable.com, jlberryman@venable.com						
Correspondent Name:	Venable LLP						
Address Line 1:	Michael A. Sartori, Ph.D.						
Address Line 2:	P.O. Box 34385						
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20043-9998						
ATTORNEY DOCKET NUMBER:	87136-339671						
NAME OF SUBMITTER:	Michael A. Sartori, Ph.D.						
Signature:	/Michael A. Sartori, Ph.D./						
Date:	05/02/2013						
Total Attachments: 1 source=Assignment#page1.tif							

CH \$40.00 13653958

# ASSIGNMENT

Whereas, I/we,

Name

Address

1) Tomoko IKAGAWA

c/o Yokohama Works of Sumitomo Electric Industries, Ltd.,

1, Taya-cho, Sakae-ku,  
Yokohama-shi, Kanagawa 244-8588 Japan

c/o Yokohama Works of Sumitomo Electric Industries, Ltd.,

2) Keiji TANAKA

1, Taya-cho, Sakae-ku,  
Yokohama-shi, Kanagawa 244-8588 Japan

hereinafter called assignor(s), have invented certain improvements in  
**METHOD TO CONTROL EMISSION WAVELENGTH OF TUNABLE LASER DIODE**

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

filed on October 17, 2012, Serial No. 13/653958; 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.

INVENTORS

DATE SIGNED

1): Tomoko Ikagawa  
Name: Tomoko IKAGAWA

April 17, 2013

2): Keiji Tanaka  
Name: Keiji TANAKA

April 17, 2013

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