

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>Jun-ichi HASHIMOTO</td> <td>08/21/2013</td> </tr> <tr> <td>Takashi KATO</td> <td>08/21/2013</td> </tr> <tr> <td>Hiroshi INADA</td> <td>08/21/2013</td> </tr> <tr> <td>Reiko MURATA</td> <td>08/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jun-ichi HASHIMOTO	08/21/2013	Takashi KATO	08/21/2013	Hiroshi INADA	08/21/2013	Reiko MURATA	08/26/2013
Name	Execution Date										
Jun-ichi HASHIMOTO	08/21/2013										
Takashi KATO	08/21/2013										
Hiroshi INADA	08/21/2013										
Reiko MURATA	08/26/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>SUMITOMO ELECTRIC INDUSTRIES, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>5-33, Kitahama 4-chome, Chuo-ku</td> </tr> <tr> <td>City:</td> <td>Osaka-shi, Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>541-0041</td> </tr> </table>		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
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>13907059</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13907059						
Property Type	Number										
Application Number:	13907059										
CORRESPONDENCE DATA											
<p>Fax Number: 2022634329 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2022634300</p> <p>Email: AROBERTS@SGRLAW.COM</p> <p>Correspondent Name: Michael A. Makuch</p> <p>Address Line 1: 1055 Thomas Jefferson Street, Ste 400</p> <p>Address Line 2: SMITH, GAMBRELL & RUSSELL, LLP</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20007</p>											
ATTORNEY DOCKET NUMBER:	033035 M 423										
NAME OF SUBMITTER:	Ayisha M. Roberts										
Signature:	/Ayisha M. Roberts/										

OP \$40.00 13907059

Date:

09/19/2013

Total Attachments: 2

source=033035M423_Assignment#page1.tif

source=033035M423_Assignment#page2.tif

ASSIGNMENT

This assignment agreement is applicable to an invention entitled:

QUANTUM CASCADE SEMICONDUCTOR LASER

The PATENT RIGHTS referred to in this agreement are:

- (check one) ☐ a patent application for this invention, executed by the ASSIGNOR(S) concurrently with this assignment.
- ☒ U.S. patent application Serial No. 13/907,059, filed May 31, 2013.
- ☐ a U.S. patent application based on PCT International Application No. _____ filed on (date) _____, (U.S. patent application Serial No. _____, if known).
- ☐ U.S. patent No. _____, issued _____.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

- (check one) ☒ U.S. patent rights only.
- ☐ Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) SUMITOMO ELECTRIC INDUSTRIES, LTD.
(Address) 5-33, Kitahama 4-chome, Chuo-ku,
Osaka-shi, Osaka 541-0041, JAPAN

The ASSIGNEE is:

- (check one) ☐ An Individual.
- ☐ A Partnership.
- ☒ A Corporation of JAPAN. (specify state or country)
- ☐ (other) _____

The ASSIGNOR(S), in consideration of \$10.00 paid by the ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, hereby assign(s) the following rights to the ASSIGNEE, its successors and assigns:

the full and exclusive right to the invention;
the entire right, title and interest in and to the PATENT RIGHTS;
the right to sue and recover for any past infringement; and,

the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable provisions, based on any earlier patent applications for this invention.

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNORS authorize any attorneys and agents who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

(Name) Jun-ichi Hashimoto
Jun-ichi HASHIMOTO

(Date) August. 21, 2013

(Name) Takashi Kato
Takashi KATO

(Date) Aug. 21, 2013

(Name) Hiroshi Inada
Hiroshi INADA

(Date) Aug. 21, 2013

(Name) Reiko Murata
Reiko MURATA, acting on behalf of herself and as
legal representative of deceased inventor
Michio MURATA

(Date) August. 26, 2013

Citizenship: Japan

Residence: Yokohama-shi, Kanagawa, JAPAN

Mailing Address: c/o: Yokohama Works of Sumitomo Electric Industries, Ltd.
1, Taya-cho, Sakae-ku, Yokohama-shi, Kanagawa, JAPAN