

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the title of the application and the execution date of the second inventor previously recorded on Reel 026046 Frame 0597. Assignor(s) hereby confirms the corrective assignment filed herewith contains the correct information..										
<b>CONVEYING PARTY DATA</b>											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hitoshi SHIMIZU</td> <td>03/04/2011</td> </tr> <tr> <td>Takeo KAGEYAMA</td> <td>03/09/2011</td> </tr> <tr> <td>Keishi TAKAKI</td> <td>03/11/2011</td> </tr> <tr> <td>Norihiro IWAI</td> <td>03/11/2011</td> </tr> </tbody> </table>		Name	Execution Date	Hitoshi SHIMIZU	03/04/2011	Takeo KAGEYAMA	03/09/2011	Keishi TAKAKI	03/11/2011	Norihiro IWAI	03/11/2011
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Keishi TAKAKI	03/11/2011										
Norihiro IWAI	03/11/2011										
<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	FURUKAWA ELECTRIC CO., LTD.										
<b>Street Address:</b>	2-3, Marunouchi 2-chome, Chiyoda-ku										
<b>City:</b>	Tokyo										
<b>State/Country:</b>	JAPAN										
<b>Postal Code:</b>	100-8322										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13075302</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13075302						
Property Type	Number										
Application Number:	13075302										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(703)518-5499										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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<b>ATTORNEY DOCKET NUMBER:</b>	4554-145										

OP \$40.00 13075302

**501536802**

**PATENT  
 REEL: 026306 FRAME: 0443**

NAME OF SUBMITTER:

Benjamin J. Hauptman

Total Attachments: 4

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 03, 2011

PTAS

LOWE HAUPTMAN HAM & BERNER, LLP  
1700 DIAGONAL ROAD  
SUITE 300  
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\*501484654\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 4554-145

ASSIGNOR:

SHIMIZU, HITOSHI

DOC DATE: 03/04/2011

ASSIGNOR:

KAGEYAMA, TAKEO

DOC DATE: ~~03/04/2011~~ 03/09/2011

ASSIGNOR:

TAKAKI, KEISHI

DOC DATE: 03/11/2011

ASSIGNOR:

IWAI, NORIHIRO

DOC DATE: 03/11/2011

);LOWE HAUPTMAN HAM & BERNER, LLP COMPANY:1700 DIAGONAL ROAD

026046/0597 PAGE 2

## ASSIGNEE:

FURUKAWA ELECTRIC CO., LTD.  
2-3, MARUNOUCHI 2-CHOME, CHIYODA-KU  
TOKYO, JAPAN 100-8322

APPLICATION NUMBER: 13075302

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: ~~SURFACE EMITTING LASER, SURFACE EMITTING LASER ARRAY, LIGHT  
SOURCE, AND OPTICAL MODULE~~

SURFACE EMITTING LASER, SURFACE EMITTING LASER ARRAY,  
LIGHT SOURCE AND OPTICAL MODULE

OCRUSER, EXAMINER

ASSIGNMENT SERVICES BRANCH

PUBLIC RECORDS DIVISION

LOWE HAUPTMAN HAM & BERNER, LLP COMPANY: 1700 DIAGONAL ROAD

PATENT ASSIGNMENT
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03/30/2011  
 501484654

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Hitoshi SHIMIZU	03/04/2011
Takeo KAGEYAMA	03/08/2011
Keishi TAKAKI	03/11/2011
Norihito IWAJ	03/11/2011
<b>RECEIVING PARTY DATA</b>	
Name:	FURUKAWA ELECTRIC CO., LTD.
Street Address:	2-3, Marunouchi 2-chome, Chiyoda-ku
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Address Line 4:	ALEXANDRIA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	4554-145
NAME OF SUBMITTER:	Benjamin J. Hauptman
Total Attachments: 1 source=Assignment#page1.tif	

03/30/2011 13075302

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by  
*(Insert Name(s) & Address(es) of ASSIGNEE(S))*  
**FURUKAWA ELECTRIC CO., LTD.**

2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8322 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

*(Title of Invention)*

**SURFACE EMITTING LASER, SURFACE EMITTING LASER ARRAY, LIGHT SOURCE,**

**AND OPTICAL MODULE**

relating to International Patent Application PCT/IP / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on \_\_\_\_\_;

*(Insert date of execution of application, if not concurrent)*

(b) filed on \_\_\_\_\_

Serial No. \_\_\_\_\_

*Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.*

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1) <u>Hitoshi Shimizu</u> <i>(Signature)</i>	Hitoshi SHIMIZU <i>(Type Name)</i>	<u>March 4, 2011</u> <i>(Date)</i>
2) <u>Takeo Kageyama</u> <i>(Signature)</i>	Takeo KAGEYAMA <i>(Type Name)</i>	<u>3 9 2011</u> <i>(Date)</i>
3) <u>Keishi Takaki</u> <i>(Signature)</i>	Keishi TAKAKI <i>(Type Name)</i>	<u>3. 11. 2011</u> <i>(Date)</i>
4) <u>Norihiko Iwai</u> <i>(Signature)</i>	Norihiko IWAI <i>(Type Name)</i>	<u>3/11/2011</u> <i>(Date)</i>
5) _____ <i>(Signature)</i>	_____ <i>(Type Name)</i>	_____ <i>(Date)</i>

**PATENT**