# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

# **CONVEYING PARTY DATA**

| Name          | Execution Date |
|---------------|----------------|
| Keishi Takaki | 10/30/2009     |
| Norihiro Iwai | 10/27/2009     |
| Koji Hiraiwa  | 10/27/2009     |

# RECEIVING PARTY DATA

| Name:           | urukawa Electric Co., LTD        |  |
|-----------------|----------------------------------|--|
| Street Address: | 3 marunouchi 2-chome, Chiyoda-ku |  |
| City:           | Tokyo                            |  |
| State/Country:  | JAPAN                            |  |
| Postal Code:    | 100-8322                         |  |

#### PROPERTY NUMBERS Total: 1

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 12560860 |

# **CORRESPONDENCE DATA**

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| ATTORNEY DOCKET NUMBER: | P02587US/FRKWP129US |  |
|-------------------------|---------------------|--|
| NAME OF SUBMITTER:      | Thomas E. Watson    |  |

**Total Attachments: 2** source=assign#page1.tif

**PATENT** REEL: 023584 FRAME: 0500

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PATENT REEL: 023584 FRAME: 0501

#### PATENT ASSIGNMENT

Client Docket No. P02587US OC Docket No. FRKWP129US

We, Keishi Takaki, Norihiro Iwai, Koji Hiraiwa ("ASSIGNORS"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "METHOD OF MANUFACTURING VERTICAL-CAVITY SURFACE EMITTING LASER AND VERTICAL-CAVITY SURFACE EMITTING LASER ARRAY" ("APPLICATION"), which:

|          | will be file       | d with        | out this          | executed  | I PATE | ENT ASS   | IGNMENT.         | . ASSI   | GNOR   |
|----------|--------------------|---------------|-------------------|-----------|--------|-----------|------------------|----------|--------|
|          | hereby aut         | horize        | s, and re         | quests, / | ASSIGN | NEE'S leg | al repres        | entativ  | es, of |
|          | Turocy &           | Watsor        | n, <b>LLP</b> , 1 | 27 Publ   | ic Squ | iare, 57  | th Floor,        | Key T    | ower,  |
|          | ${\sf Cleveland,}$ | Ohio          | 44114,            | who are   | assoc  | ciated w  | ith custo        | mer nı   | ımber  |
|          | <u>23623</u> ,     | to            | insert            | here      | in     | parent    | thesis           | (Appli   | cation |
|          | No                 |               | , filed           |           | ) tl   | his APPL  | ICATION'S        | s Applie | cation |
|          | No. and fili       | ing dat       | e, when k         | known;    |        |           |                  |          |        |
| $\times$ | was filed o        | n <u>9/16</u> | /09 and           | was give  | n Appl | ication N | lo. <u>12/56</u> | 0,860;   |        |
|          | is filed con       | curren        | tly herew         | ith;      |        |           |                  |          |        |
|          |                    |               |                   |           |        |           |                  |          |        |

Furukawa Electric Co., LTD, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

| Keichi Toladai<br>Inventor's Signature | 30/10/2009<br>Date                                      |
|----------------------------------------|---------------------------------------------------------|
| Keishi Takaki                          |                                                         |
| Printed Name in English                | Printed Name in Native Language (if other than English) |

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| naritura Unai Inventor's Signature   | 27/10/2009<br>Date                                      |
|--------------------------------------|---------------------------------------------------------|
| inventor 5 signature                 | Dute                                                    |
| Norihiro Iwai                        |                                                         |
| Printed Name in English              | Printed Name in Native Language (if other than English) |
| Koji Hiraiuk<br>Inventor's Signature |                                                         |
| Koji Hiraiwa                         |                                                         |
|                                      |                                                         |

**RECORDED: 12/01/2009**