

PATENT ASSIGNMENT

Electronic Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| Name | | Execution Date |
| Ulrich Steegmuller | | 10/16/2008 |
| Frank Singer | | 10/15/2008 |
| Thomas Schwarz | | 10/15/2008 |
| Roland Schulz | | 10/15/2008 |
| RECEIVING PARTY DATA | | |
| Name: | OSRAM Opto Semiconductors GmbH | |
| Street Address: | Leibnizstrasse 4 | |
| City: | Regensburg | |
| State/Country: | GERMANY | |
| Postal Code: | 93055 | |
| PROPERTY NUMBERS Total: 1 | | |
| Property Type | Number | |
| Application Number: | 12087291 | |
| CORRESPONDENCE DATA | | |
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| ATTORNEY DOCKET NUMBER: | 5367-412PUS | |
| NAME OF SUBMITTER: | /Thomas Langer/ | |
| Total Attachments: 6 | | |

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Attorney Docket Number: 5367-412PUS

ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, We the undersigned, **Ulrich STEEGMÜLLER, Frank SINGER, Thomas SCHWARZ, Roland SCHULZ** (hereinafter referred to as "ASSIGNOR"):

Hereby sell, assign and transfer to **OSRAM Opto Semiconductors GmbH**, (hereinafter referred to as "ASSIGNEE"), a corporation of Germany, having a place of business at **Leibnizstrasse 4, 93055 Regensburg, Germany**, respectively, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to the invention which is disclosed in the application for United States Letters Patent Serial No. **12/087,291** and which is entitled

VERTICALLY EMITTING, OPTICALLY PUMPED SEMICONDUCTOR HAVING AN EXTERNAL RESONATOR ON A SEPARATE SUBSTRATE

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on said invention; and in and to all original, reissued and other patents and certificates of invention which have been or shall be issued in the United States and all foreign countries on said invention;

Agree that said Assignee may apply for and receive Letters Patent for said invention in its own name, and that, when requested, without further consideration from or charge to, but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional,

continuing, substitute, renewal, reissue, and all other patent applications on said invention; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said invention and for vesting title to said invention and all applications for patents and all patents on said invention, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 10/16/07
month/day/year


Ulrich STEEGMULLER

Witness

Witness

Date: _____
month/day/year

Frank SINGER

Witness

Witness

Date: October 15 / 2008
month/day/year

Thomas Schwarz
Thomas SCHWARZ

[Signature]
Witness

Roland Schulz
Witness

Date: October 15 / 2008
month/day/year

Roland Schulz
Roland SCHULZ

[Signature]
Witness

Thomas Schwarz
Witness

Note: Signature of a witness is preferable but not required.

Attorney Docket Number: 5367-412PUS

ASSIGNMENT

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VERTICALLY EMITTING, OPTICALLY PUMPED SEMICONDUCTOR HAVING AN EXTERNAL RESONATOR ON A SEPARATE SUBSTRATE

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on said invention; and in and to all original, reissued and other patents and certificates of invention which have been or shall be issued in the United States and all foreign countries on said invention;

Agree that said Assignee may apply for and receive Letters Patent for said invention in its own name, and that, when requested, without further consideration from or charge to, but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional,

continuing, substitute, renewal, reissue, and all other patent applications on said invention; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said invention and for vesting title to said invention and all applications for patents and all patents on said invention, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: _____
month/day/year

Ulrich STEEGMÜLLER

Witness

Witness

Date: October 15 / 2008
month/day/year

Frank SINGER
Frank SINGER

Ulrich Steegmüller
Witness

Rolf Sch
Witness

Date: _____
month/day/year

Thomas SCHWARZ

Witness

Witness

Date: _____
month/day/year

Roland SCHULZ

Witness

Witness

Note: Signature of a witness is preferable but not required.