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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | | NEW ASSIGNMENT | NEW ASSIGNMENT | |
|---|---|--|-------------------------------|--|
| NATURE OF CONVEYANCE: | | ASSIGNMENT | ASSIGNMENT | |
| CONVEYING PARTY DA | АТА | | | |
| | | Name | Execution Date | |
| BRITTA GOEOETZ | | | 01/08/2014 | |
| ERWIN LANG | | | 02/11/2014 | |
| THILO REUSCH | | | 01/08/2014 | |
| DANIEL STEFFEN SETZ | 2 | | 01/09/2014 | |
| RECEIVING PARTY DA | ТА | | | |
| Name: | OSRAM | OPTO SEMICONDUCTORS GMBH | | |
| Street Address: | LEIBNIZ | ZSTR. 4 | | |
| City: | REGEN | REGENSBURG | | |
| State/Country: | FEDER | FEDERAL REPUBLIC GERMANY | | |
| Postal Code: | 93055 | | | |
| PROPERTY NUMBERS | Total: 1 | Number | | |
| Property Type | | Number | | |
| | | Number 14131690 | | |
| Property Type Application Number: CORRESPONDENCE D | 1 ATA | 14131690 | | |
| Property Type Application Number: CORRESPONDENCE D Fax Number: | 1 ATA (| 617)849-5451 | | |
| Property Type Application Number: CORRESPONDENCE D Fax Number: | 1 ATA (| 14131690 | uccessful, it will be sent vi | |
| Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> | ATA (e sent to | 617)849-5451 | uccessful, it will be sent vi | |
| Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>US Mail.</i> Phone: Email: | ATA (e sent to 6 | 14131690 617)849-5451 <i>the e-mail address first; if that is unst</i> 617-275-2642 patint@vjp.de | | |
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ASSIGNMENT

For good and valuable consideration, 1 (We),

Britta Goecetz, residing at Sandra-Paretti-Weg 12 93051 Regensburg Germany Citizen of Germany

Erwin Leng residing at Bernhard-Suttner-Weg 2 93051 Regensburg Germany oltizen of Germany

Thilo Reusch residing at Kurzer Weg 13 93055 Regensburg Germany oitizen of Germany

Daniel Steffen Setz Residing at Austr. 11 71034 Boeblingen Germany citizen of Germany

hereafter individually or collectively referred to as "Assignor(s)";

Hereby, (I) acknowledge having previously assigned, sold and transferred to OSRAM Opto Semiconductors GmbH, a corporation organized and existing under the lawa of GERMANY, having its principal place of business at Leibnizstr. 4 in 93055 Regensburg, hereinafter "Assignee", its successors, assigns and legal representatives, or to a predecessor of Assignee, pursuant to (A)(I) the laws of GERMANY or (II) a Patent & Secrecy Agreement or similar legal document such as, without limitation, an employee agreement executed at the time of entering into the employment of, or executed as a condition of continuing employment with, the Assignee or a predecessor of the Assignee, the entire right, including any and all priority rights, title and interest, in and for the United States and all foreign countries, in and to any and all inventions or improvements which are disclosed in an invention disclosure and/or in the below-identified documents currently filed with this Assignment, already filed or granted for Letters Patent (in which case, any provision of the subject Assignment that is in conflict with or is in addition to any provision in the prior agreement(s) or assignment(s) then this Assignment shall govern, take precedence, and be of legal effect), or

(B)(i) to the extent such laws of GERMANY or such Patent & Secrecy Agreement or similar legal document failed or fails, in whole or part, to have assigned, sold or transferred the entire right (including priority rights), title and interest, in and for the United States and all foreign countries, in and to all inventions or improvements which are disclosed in the below-identified application(s) or pending application(s) or granted Letters Patent, or (II) if no such agreement(s) exist assigning, selling or transferring any such right (including priority rights), title or interest; then for good and valuable consideration, Assignor(s) now and hereby, effective Nunc Pro Tunc on the filing date of the below identified patent application(s), pending patent application(s) or granted Letter Patent(s), assign, sell and transfer(s) to Assignee, its successors, assigns and legal

Docket No.:P54351US Page 2 of 3

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Patent Application Title: Light-Emitting Components and Method for Producing a Light-Emitting Component Filing Date: (05/31/2012) Filing Number: PCT/EP2012/060210 Internal Case Number(s): P54351US

and in and to said application(s) or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, relssue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the inventions and/or improvements; and in and to all original and relssued patents which have been or shall be filed in the United States and all foreign countries on the inventions and/or improvements;

(II) Agree that said Assignce may apply for and receive Letters Patent for said inventions and/or improvements in its own name; and that, when requested, without 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, relssue, and all other patent applications on any and all said inventions and/or improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said inventions and/or improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for alding in eccuring and maintaining proper patent protection for said Inventions and/or improvements and for vesting title to said inventions and/or improvements and all applications for patents and all patents on said inventions and/or improvements, in said Assignee, its successors, assigns and legal representatives; and

(III) 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.

Witness Signature

Britta GOEQETZ

printed name of witness

Date

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Witness Signature

Musa printed name of witness

Docket No.:P54351US Page 3 of 3

Ōr lana Erwin LANG

Tebruary N 2014 Date

Witness Signature

Thilo REUSCH

printed name of witness

Date

Witness Signature

Daniel Steffen SETZ

Printed name of witness

Date

Companies Representative(s) OSRAM Opto Semiconductors GmbH

Signature Name

Date

Signature Name

Date

Docket No.:P54351US Page 1 of 3

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Witness Signature

printed name of witness

Britta GOEOETZ

Docket No.:P54351US Page 3 of 3

ASA

2014

Erwin LANG

Witness Signature

Witness Signature

Daniel Steffen SETZ

Printed name of witness

Date

Companies Representative(s) OSRAM Opto Semiconductors GmbH

Signature Name Date

Signature Name

Docket No.:P54351US Page 1 of 3

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Witness Signature

Britta GOEOETZ

printed name of witness

Docket No.:P54351US Page 3 of 3

| Witness Signature | Erwin LANG |
|--|--------------|
| printed name of witness | Date |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
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| printed name of witness | Date |

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Witness Signature

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Printed name of witness

Daniel Steffen SETZ

2014 74 $\langle \rangle$ a6. 212 Date

Companies Representative(s) OSRAM Opto Semiconductors GmbH

Signature Name

Date

Signature Name

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| printed name of witness | Date |
| Witness Signature | Thilo REUSCH |
| printed name of witness | Date |
| Witness Signature | Daniel Steffen SETZ |
| Printed name of witness | Date |
| | Companies Representative(s) OSRAM Opto Semiconductors GmbH Signature Name 1 0 JAN 2014 Date |
| | Signature NTROLAUS GMEINWIESER Name SENIOR MANAGER Date 10. 1. 14 |

RECORDED: 04/24/2014