

## 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>Michael Kruppa</td> <td>01/07/2013</td> </tr> <tr> <td>Simon Jerebic</td> <td>01/08/2013</td> </tr> </tbody> </table>                                                                                                                                                                                                         |                                | Name          | Execution Date                 | Michael Kruppa      | 01/07/2013       | Simon Jerebic | 01/08/2013 |                |         |              |       |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                | Execution Date                 |               |                                |                     |                  |               |            |                |         |              |       |
| Michael Kruppa                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/07/2013                     |               |                                |                     |                  |               |            |                |         |              |       |
| Simon Jerebic                                                                                                                                                                                                                                                                                                                                                                                                                       | 01/08/2013                     |               |                                |                     |                  |               |            |                |         |              |       |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                                                                |                                |               |                                |                     |                  |               |            |                |         |              |       |
| <table border="1"> <tr> <td>Name:</td> <td>OSRAM Opto Semiconductors GmbH</td> </tr> <tr> <td>Street Address:</td> <td>Leibnizstrasse 4</td> </tr> <tr> <td>City:</td> <td>Regensburg</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>93055</td> </tr> </table>                                                                                                                       |                                | Name:         | OSRAM Opto Semiconductors GmbH | Street Address:     | Leibnizstrasse 4 | City:         | Regensburg | State/Country: | GERMANY | Postal Code: | 93055 |
| Name:                                                                                                                                                                                                                                                                                                                                                                                                                               | OSRAM Opto Semiconductors GmbH |               |                                |                     |                  |               |            |                |         |              |       |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                                                     | Leibnizstrasse 4               |               |                                |                     |                  |               |            |                |         |              |       |
| City:                                                                                                                                                                                                                                                                                                                                                                                                                               | Regensburg                     |               |                                |                     |                  |               |            |                |         |              |       |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                                                                      | GERMANY                        |               |                                |                     |                  |               |            |                |         |              |       |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                                                                        | 93055                          |               |                                |                     |                  |               |            |                |         |              |       |
| 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>13703180</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                           |                                | Property Type | Number                         | Application Number: | 13703180         |               |            |                |         |              |       |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                       | Number                         |               |                                |                     |                  |               |            |                |         |              |       |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                                 | 13703180                       |               |                                |                     |                  |               |            |                |         |              |       |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |               |                                |                     |                  |               |            |                |         |              |       |
| <p>Fax Number: 2156562498<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i><br/>         Phone: 215-656-3381<br/>         Email: pto.phil@dlapiper.com<br/>         Correspondent Name: T. Daniel Christenbury<br/>         Address Line 1: One Liberty Place<br/>         Address Line 2: 1650 Market Street, Suite 4900<br/>         Address Line 4: Philadelphia, PENNSYLVANIA 19103</p> |                                |               |                                |                     |                  |               |            |                |         |              |       |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                                                             | EHF-12-1409                    |               |                                |                     |                  |               |            |                |         |              |       |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                                                                  | Carol Coney                    |               |                                |                     |                  |               |            |                |         |              |       |
| <p>Total Attachments: 6<br/>         source=EHF-12-1409#page1.tif<br/>         source=EHF-12-1409#page2.tif<br/>         source=EHF-12-1409#page3.tif<br/>         source=EHF-12-1409#page4.tif<br/>         source=EHF-12-1409#page5.tif<br/>         source=EHF-12-1409#page6.tif</p>                                                                                                                                             |                                |               |                                |                     |                  |               |            |                |         |              |       |

CH \$40.00 13703180

Docket No.: P2010,1141 US N / 2700 / 2010P10876WOUS  
Attorney Docket No. EHF-12-409

Page 1 of 3

## ASSIGNMENT

For good and valuable consideration, I (We),

Michael Kruppa,  
residing at Am Wasserturm 5  
85290 Geisenfeld  
Germany  
citizen of Germany

Simon Jerebic,  
residing at Lutherstr. 15  
93105 Tegernheim  
Germany  
citizen of Slovenia

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 laws 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 representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and/or improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s)

Docket No.: P2010,1141 US N / 2700 / 2010P10876WOUS  
Attorney Docket No. EHF-12-409

Page 2 of 3

Patent Application Title: SEMICONDUCTOR COMPONENT AND METHOD FOR  
PRODUCING A SEMICONDUCTOR COMPONENT

Filing Date: 12/10/2012 (MM/DD/YYYY)

Filing Number: 13/703,180

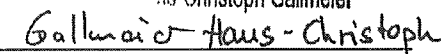
Internal Case Number(s): EHF-12-1409

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, reissue, 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 reissued 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 Assignee 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, reissue, 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 aiding in securing 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

Hans-Christoph Gallmeyer  
  
\_\_\_\_\_  
printed name of witness

  
\_\_\_\_\_  
Michael Kruppa

07.01.2013  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness Signature

\_\_\_\_\_  
Simon Jerebic

\_\_\_\_\_  
printed name of witness

\_\_\_\_\_  
Date

Docket No.: P2010,1141 US N / 2700 / 2010P10876WOUS

Attorney Docket No. EHF-12-409

Page 3 of 3

Companies Representative(s)  
OSRAM Opto Semiconductors GmbH

Signature

Name

Date

Signature

Name

Date

## ASSIGNMENT

For good and valuable consideration, I (We),

Michael Kruppa,  
residing at Am Wasserturm 5  
85290 Geisenfeld  
Germany  
citizen of Germany

Simon Jerebic,  
residing at Lutherstr. 15  
93105 Tegernheim  
Germany  
citizen of Slovenia

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 laws 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 representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and/or improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s)

Patent Application Title: SEMICONDUCTOR COMPONENT AND METHOD FOR  
PRODUCING A SEMICONDUCTOR COMPONENT  
Filing Date: 12/10/2012 (MM/DD/YYYY)  
Filing Number: 13/703,180  
Internal Case Number(s): EHF-12-1409

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, reissue, 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 reissued 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 Assignee 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, reissue, 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 aiding in securing 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

---

Michael Kruppa

---

printed name of witness

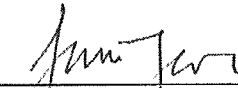
---

Date

---

  
Witness Signature

---

  
Simon Jerebic

---

Markus Pindl  
printed name of witness

---

8th of January 2013  
Date

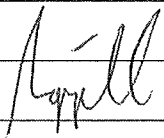
Docket No.: P2010,1141 US N / 2700 / 2010P10876WOUS  
Attorney Docket No. EHF-12-409

Page 3 of 3

Companies Representative(s)  
OSRAM Opto Semiconductors GmbH

Signature   
Name Aldo Kamper  
President & CEO

Date 08 JAN 2013

Signature   
Name Josef Ringsgwandl  
CFO

Date 08 JAN 2013