

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4477017

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KARL WEIDNER	05/27/2014
RALPH WIRTH	05/19/2014
AXEL KALTENBACHER	05/16/2014
WALTER WEGLEITER	05/08/2014
BERND BARCHMANN	04/30/2014
OLIVER WUTZ	06/02/2014
JAN MARFELD	04/30/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	OSRAM OPTO SEMICONDUCTOR GMBH
<b>Street Address:</b>	LEIBNIZSTRASSE 4
<b>City:</b>	REGENSBURG
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	93055
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15632544
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)656-2498
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	215-656-3381
<b>Email:</b>	pto.phil@dlapiper.com
<b>Correspondent Name:</b>	IP GROUP OF DLA PIPER LLP (US)
<b>Address Line 1:</b>	ONE LIBERTY PLACE
<b>Address Line 2:</b>	1650 MARKET ST, SUITE 4900
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	EHF-11-1354D-D-C-C (-480)
<b>NAME OF SUBMITTER:</b>	LESLIE J. HOOD
<b>SIGNATURE:</b>	/LJH/
<b>DATE SIGNED:</b>	06/26/2017

PATENT

**Total Attachments: 24**

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ASSIGNMENT

For good and valuable consideration, I (We),

Karl Weidner,  
residing at Zauserweg 6  
81245 München  
Germany  
citizen of Germany

Ralph Wirth,  
residing at Am Schlag 33  
93138 Lappersdorf  
Germany  
citizen of Germany

Axel Kaltenbacher,  
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citizen of Germany

Jan Marfeld,  
residing at Tellusweg 2  
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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 laws of GERMANY, having its principal place of business at Leibnizstr. 4 in 93055 Regensburg,

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(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: Optoelectronic semiconductor component Filing Date:  
(03/24/2014)  
Filing Number: 14/223,173  
Internal Case Number: EHF-11-1354DIV

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.

S. Kibben  
Witness Signature

K. Weidner  
Karl Weidner

SEBASTIAN KISBAN  
printed name of witness

27.05.2014  
Date

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Witness Signature

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

\_\_\_\_\_  
Ralph Wirth

\_\_\_\_\_  
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\_\_\_\_\_  
Bernd Barchmann

\_\_\_\_\_  
Date

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Witness Signature

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Oliver Wutz

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printed name of witness

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Date

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Witness Signature

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Jan Marfeld

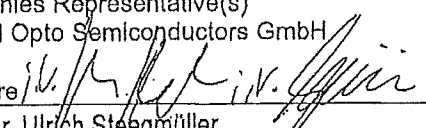
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printed name of witness

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Date

Companies Representative(s)  
OSRAM Opto Semiconductors GmbH

Signature 

Name Dr. Ulrich Steegmüller  
Vice President & CTO

Date

05. MAI 2014

NIKOLAUS GMEINWIESER  
SENIOR MANAGER

INTELLECTUAL PROPERTY

05. Mai 2014

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Internal Case Number: EHF-11-1354DIV

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

\_\_\_\_\_  
Karl Weidner

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

\_\_\_\_\_  
Date

\_\_\_\_\_  
*Kristen Berginok*  
Witness Signature

\_\_\_\_\_  
*Ralph Wirth*  
Ralph Wirth

\_\_\_\_\_  
Kristen Berginok  
printed name of witness

\_\_\_\_\_  
*May 19<sup>th</sup>, 2014*  
Date

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

\_\_\_\_\_  
Axel Kaltenbacher

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

\_\_\_\_\_  
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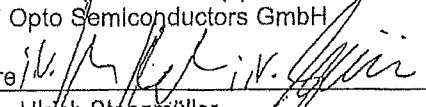
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_____ Witness Signature	_____ Oliver Wutz
_____ printed name of witness	_____ Date

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_____ Witness Signature	_____ Jan Marfeld
_____ printed name of witness	_____ Date

Companies Representative(s)  
OSRAM Opto Semiconductors GmbH

Signature 

Name Dr. Ulrich Steegmüller  
Vice President & CTO

Date 05. MAI 2014

NIKOLAUS GMEINWIESER  
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Patent Application Title: Optoelectronic semiconductor component Filing Date:  
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Witness Signature

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Karl Weidner

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

\_\_\_\_\_  
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\_\_\_\_\_  
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Date

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\_\_\_\_\_  
Axel Kaltenbacher

\_\_\_\_\_  
Harald Jäger  
printed name of witness

\_\_\_\_\_  
May 16<sup>th</sup>, 2014  
Date

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

\_\_\_\_\_  
Walter Wegleiter

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

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Bernd Barchmann

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Oliver Wutz

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Jan Marfeld

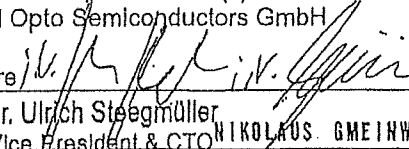
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Vice President & CTO

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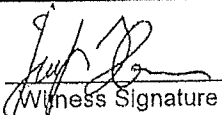
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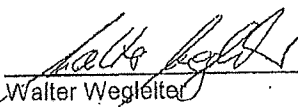
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Date

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

  
\_\_\_\_\_  
Walter Wegleiter

*Siegfried Herrmann*  
\_\_\_\_\_  
printed name of witness

*May 8, 2014*  
\_\_\_\_\_  
Date

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

\_\_\_\_\_  
Bernd Barchmann

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

\_\_\_\_\_  
Date

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Witness Signature

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Oliver Wutz

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printed name of witness

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Date

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Witness Signature

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Jan Marfeld

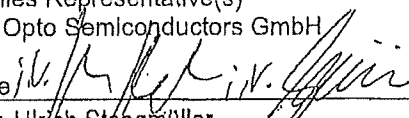
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printed name of witness

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Date

Companies Representative(s)  
OSRAM Opto Semiconductors GmbH

Signature 

Name Dr. Ulrich Steegmüller

Vice President & CTO

Date

05. MAI 2014

NIKOLAUS GMEINWIESER  
SENIOR MANAGER  
INTELLECTUAL PROPERTY

05. Mai 2014

ASSIGNMENT

For good and valuable consideration, I (We),

Karl Weidner,  
residing at Zauserweg 6  
81245 München  
Germany  
citizen of Germany

Ralph Wirth,  
residing at Am Schlag 33  
93138 Lappersdorf  
Germany  
citizen of Germany

Axel Kaltenbacher,  
residing at Im Anger 13  
93098 Mintraching  
Germany  
citizen of Germany

Walter Wegleiter,  
residing at Marlenstr. 15  
93152 Nittendorf  
Germany  
citizen of Germany

Bernd Barchmann,  
residing at Künische Str. 11  
93059 Regensburg  
Germany  
citizen of Germany

Oliver Wutz,  
residing at Roter Brachweg 80 a  
93049 Regensburg  
Germany  
citizen of Germany

Jan Marfeld,  
residing at Tellusweg 2  
93055 Regensburg  
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 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: Optoelectronic semiconductor component Filing Date:  
(03/24/2014)  
Filing Number: 14/223,173  
Internal Case Number: EHF-11-1354DIV

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  
Karl Weldner  
\_\_\_\_\_  
printed name of witness  
\_\_\_\_\_  
Date

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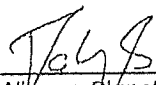
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Witness Signature  
Ralph Wirth  
\_\_\_\_\_  
printed name of witness  
\_\_\_\_\_  
Date

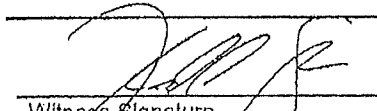
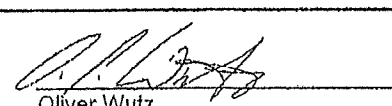
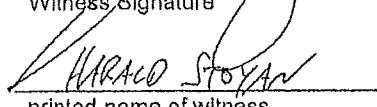
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\_\_\_\_\_  
Witness Signature  
Axel Kaltenbacher  
\_\_\_\_\_  
printed name of witness  
\_\_\_\_\_  
Date

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\_\_\_\_\_  
Witness Signature  
Walter Wegleiter  
\_\_\_\_\_  
printed name of witness  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Witness Signature  
Bernd Barchmann  
\_\_\_\_\_  
printed name of witness  
April 30, 2014  
\_\_\_\_\_  
Date

 _____ Witness Signature	 _____ Oliver Wutz
 _____ printed name of witness	<u>2.6.2014</u> _____ Date

_____ Witness Signature	_____ Jan Marfeld
_____ printed name of witness	_____ Date

Companies Representative(s)  
OSRAM Opto Semiconductors GmbH

\_\_\_\_\_  
Signature  
Name

\_\_\_\_\_  
Date

ASSIGNMENT

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Patent Application Title: Optoelectronic semiconductor component Filing Date:  
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Internal Case Number: EHF-11-1354DIV

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\_\_\_\_\_  
Witness Signature  
Karl Weldner  
\_\_\_\_\_  
printed name of witness  
\_\_\_\_\_  
Date

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\_\_\_\_\_  
Witness Signature  
Ralph Wirth  
\_\_\_\_\_  
printed name of witness  
\_\_\_\_\_  
Date

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\_\_\_\_\_  
Witness Signature  
Axel Kaltenbacher  
\_\_\_\_\_  
printed name of witness  
\_\_\_\_\_  
Date

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\_\_\_\_\_  
Witness Signature  
Walter Wegleiter  
\_\_\_\_\_  
printed name of witness  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Witness Signature  
Bernd Barchmann  
\_\_\_\_\_  
printed name of witness  
April 30, 2014  
\_\_\_\_\_  
Date

Doehner Andreas  
\_\_\_\_\_  
printed name of witness

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Witness Signature

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Oliver Wutz

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printed name of witness

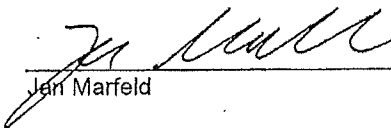
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Date

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Witness Signature

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Jan Marfeld

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Michael Beste  
printed name of witness

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April 30th 2014  
Date

Companies Representative(s)  
OSRAM Opto Semiconductors GmbH

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Signature  
Name

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Date

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