

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4852423

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| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the ASSIGNEES NAME previously recorded on Reel 042986 Frame 0360. Assignor(s) hereby confirms the CORRECT NAME IS OSRAM OPTO SEMICONDUCTORS GMBH. |
| RESUBMIT DOCUMENT ID: | 504638204 |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| 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 |

RECEIVING PARTY DATA

| | |
|------------------------|--------------------------------|
| Name: | OSRAM OPTO SEMICONDUCTORS GMBH |
| Street Address: | LEIBNIZSTR. 4 |
| City: | REGENSBURG |
| State/Country: | GERMANY |
| Postal Code: | 93055 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15632544 |

CORRESPONDENCE DATA

Fax Number: (215)656-2498
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.

Phone: 215-656-3381
Email: pto.phil@dlapiper.com
Correspondent Name: T. DANIEL CHRISTENBURY
Address Line 1: ONE LIBERTY PLACE
Address Line 2: 1650 MARKET STREET, SUITE 4900
Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

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| ATTORNEY DOCKET NUMBER: | EHF-11-1354-DIV-DIV-CON-C |
|--------------------------------|---------------------------|

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|---------------------------|-------------|
| NAME OF SUBMITTER: | CAROL CONEY |
| SIGNATURE: | /cc/ |
| DATE SIGNED: | 03/06/2018 |

Total Attachments: 35

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Electronic Patent Assignment System

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

| | |
|----------------------------------|-------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
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| WALTER WEGLEITER | 05/08/2014 |
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| OLIVER WUTZ | 06/02/2014 |
| JAN MARFELD | 04/30/2014 |
| RECEIVING PARTY DATA | |
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| City: | REGENSBURG |
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 Correspondent Name: IP GROUP OF DLA PIPER LLP (US)
 Address Line 1: ONE LIBERTY PLACE
 Address Line 2: 1650 MARKET ST, SUITE 4900
 Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

| | |
|-------------------------|---------------------------|
| ATTORNEY DOCKET NUMBER: | EHF-11-1354D-D-C-C (-480) |
| NAME OF SUBMITTER: | LESLIE J. HOOD |
| Signature: | /LJH/ |
| Date: | 06/26/2017 |

Total Attachments: 24
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Docket No.: EHF-11-1354DIV
(P2009,0992 US N1) BAE/HT
Page 1 of 4

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
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citizen of Germany

Walter Wegleiter,
residing at Marlenstr. 15
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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 Leibnitzstr. 4 In 93055 Regensburg,

Docket No.: EHF-11-1354DIV
 (P2009,0992 US N1) BAE/HT
 Page 2 of 4

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 falls, 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

Docket No.: EHF-11-1354DIV
(P2009,0992 US N1) BAE/HT
Page 3 of 4

(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. Kirban
Witness Signature

K. Weidner
Karl Weidner

SEBASTIAN KIRBAN
printed name of witness

27.05.2014
Date

Witness Signature

Ralph Wirth

printed name of witness

Date

Witness Signature

Axel Kaltenbacher

printed name of witness

Date

Witness Signature

Walter Wegleiter

printed name of witness

Date

Witness Signature

Bernd Barchmann

printed name of witness

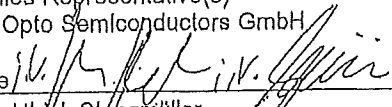
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(P2009,0992 US N1) BAE/HT
Page 4 of 4

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| Witness Signature | Oliver Wutz |
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| printed name of witness | Date |
| <hr/> | |

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| <hr/> | <hr/> |
| Witness Signature | Jan Marfeld |
| <hr/> | <hr/> |
| 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 GHEINWIESER
SENIOR MANAGER
INTELLECTUAL PROPERTY
05. Mai 2014

Docket No.: EHF-11-1354DIV
(P2009,0992 US N1) BAE/HT
Page 1 of 4

ASSIGNMENT

For good and valuable consideration, I (We),

Karl Weldner
residing at Zauserweg 6
81245 München
Germany
citizen of Germany

Ralph Wirth
residing at Am Schlag 33
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Germany
citizen of Germany

Axel Kaltenbacher
residing at Im Anger 13
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citizen of Germany

Walter Wegleiter
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citizen of Germany

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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,

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Page 2 of 4

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* Patent Application Title: Optoelectronic semiconductor component Filing Date:
(03/24/2014)
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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

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Page 3 of 4

(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 Weidner

printed name of witness

Date

Kristen Bergin
Witness Signature

Ralph Wirth
Ralph Wirth

Kristen Bergin
printed name of witness

May 19th, 2014
Date

Witness Signature

Axel Kaltenbacher

printed name of witness

Date

Witness Signature

Walter Wegleiter

printed name of witness

Date

Witness Signature

Bernd Barchmann

printed name of witness

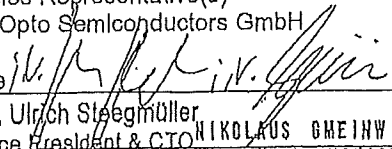
Date

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Page 4 of 4

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| _____ | _____ |
| Witness Signature | Oliver Wutz |
| _____ | _____ |
| printed name of witness | Date |

| | |
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| _____ | _____ |
| Witness Signature | Jan Marfeld |
| _____ | _____ |
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Witness Signature Karl Weldner

printed name of witness Date

Witness Signature Ralph Wirth

printed name of witness Date


Witness Signature Axel Kaltenbacher

Harald Jäger
printed name of witness May 16th, 2014
Date

Witness Signature Walter Wegleiter

printed name of witness Date

Witness Signature Bernd Barchmann

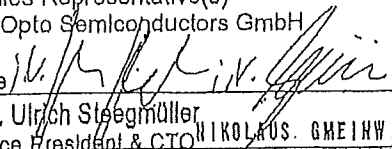
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Page 4 of 4

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| Witness Signature | Oliver Wutz |
| printed name of witness | Date |
| <hr/> | |

| | |
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| Witness Signature | Jan Marfeld |
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Companles Representative(s)
OSRAM Opto Semiconductors GmbH

Signature 

Name Dr. Ulrich Steegmüller
Vice President & CTO

Date 05. MAI 2014

NIKOLAUS GMEIHWIESER
SENIOR MANAGER
INTELLECTUAL PROPERTY
05. Mai 2014

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81245 München
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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
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citizen of Germany

Walter Wegleiter,
residing at Marienstr. 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,

Docket No.: EHF-11-1354DIV
(P2009,0992 US N1) BAE/HT
Page 2 of 4

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

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Page 3 of 4

(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

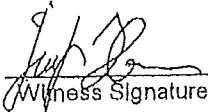
printed name of witness
Date

Witness Signature
Ralph Wirth

printed name of witness
Date

Witness Signature
Axel Kaltenbacher

printed name of witness
Date


Witness Signature
Walter Wegleiter

Siegfried Herrmann
printed name of witness
May 8, 2014
Date

Witness Signature
Bernd Barchmann

printed name of witness
Date

Docket No.: EHF-11-1354DIV
(P2009,0992 US N1) BAE/HT
Page 4 of 4

Witness Signature

Oliver Wutz

printed name of witness

Date

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

SENIOR MANAGER

INTELLECTUAL PROPERTY

05, Mai 2014

Docket No.: EHF-11-1354DIV
(P2009,0992 US N1) BAE/HT
Page 1 of 4

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For good and valuable consideration, I (We),

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81245 München
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citizen of Germany

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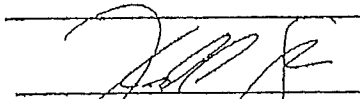
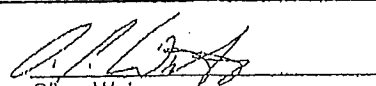
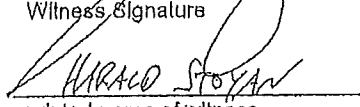
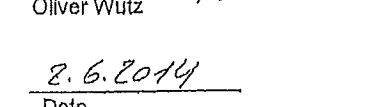
| | |
|----------------------------------|-----------------------|
| _____ Witness Signature | _____ Karl Weldner |
| _____ printed name of witness | _____ Date |

| | |
|----------------------------------|----------------------|
| _____ Witness Signature | _____ Ralph Wirth |
| _____ printed name of witness | _____ Date |

| | |
|----------------------------------|----------------------------|
| _____ Witness Signature | _____ Axel Kaltenbacher |
| _____ printed name of witness | _____ Date |

| | |
|---|--|
| _____ Witness Signature | _____ Walter Wegleiter |
| _____ printed name of witness | _____ Date |
| _____ <i>Tobias</i> Witness Signature | _____ <i>Bernd Barchmann</i> Bernd Barchmann |
| _____ <i>Dieter Andreas</i> printed name of witness | _____ <i>April 30, 2019</i> Date |

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(P2009,0992 US N1) BAE/HT
Page 4 of 4

| | |
|--|---|
|  _____ Witness Signature |  _____ Oliver Wutz |
|  _____ Harald Stoyan printed name of witness |  _____ 2.6.2014 Date |

Witness Signature

printed name of witness

Jan Marfeld

Date

Companies Representative(s)
OSRAM Opto Semiconductors GmbH

Signature

Name

Date

Docket No.: EHF-11-1354DIV
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Witness Signature

Karl Weidner

printed name of witness

Date

Witness Signature

Ralph Wirth

printed name of witness

Date

Witness Signature

Axel Kaltenbacher

printed name of witness

Date

Witness Signature

Walter Wegleiter

printed name of witness

Date

Tobias

Witness Signature

Bernd Barchmann

Bernd Barchmann

Dobner Andreas

printed name of witness

April 30, 2014

Date

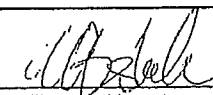
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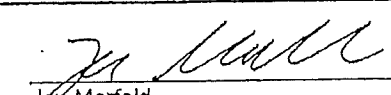
Witness Signature

Oliver Wutz

printed name of witness

Date


Witness Signature


Jan Marfeld

Michael Bastele
printed name of witness

April 30th 2014
Date

Companies Representative(s)
OSRAM Opto Semiconductors GmbH

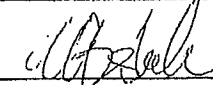
Signature

Name

Date

Docket No.: EHF-11-1354DIV
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Page 4 of 4

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


Witness Signature _____ Jani Marfeld _____
Michael Bastele _____ April 30th 2014 _____
printed name of witness _____ Date _____

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OSRAM Opto Semiconductors GmbH

Signature _____
Name _____
Date _____