

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2816188

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| KORBINIAN PERZLMAIER | 03/14/2014 |
| KAI GEHRKE | 03/14/2014 |
| ROBERT WALTER | 03/19/2014 |
| KARL ENGL | 03/24/2014 |
| GUIDO WEISS | 03/28/2014 |
| MARKUS MAUTE | 03/19/2014 |
| STEFANIE RAMMELSBERGER | 03/19/2014 |
| 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: | 14240443 |
| CORRESPONDENCE DATA | |
| Fax Number: | (215)656-2498 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> | |
| 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 |
| ATTORNEY DOCKET NUMBER: | EHF-14-1024 |
| NAME OF SUBMITTER: | CAROL CONEY |
| SIGNATURE: | /cc/ |
| DATE SIGNED: | 04/16/2014 |

PATENT

Total Attachments: 32

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P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

Docket No.: EHF-14-1024

Page 1 of 4

ASSIGNMENT

For good and valuable consideration, I (We),

Korbinian Perzmaier,
residing at Bischof-Konrad-Str. 2
93051 Regensburg
Germany
citizen of Germany

Kai Gehrke,
residing at An der Iselrinne 4
93053 Regensburg
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citizen of Germany

Robert Walter,
residing at Hammermühlweg 7
92331 Parsberg
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citizen of Germany

Karl Engl,
residing at Rehfeld 25 a
93080 Pentling
Germany
citizen of Germany

Guido Weiss,
residing at Seifensiedergasse 4 a
93059 Regensburg
Germany
citizen of Germany

Markus Maute,
residing at Köferinger Weg 15
93087 Alteglofsheim
Germany
citizen of Germany

Stefanie Rammelsberger,
residing at Hopfenweg 37
93197 Zeitlarn
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,

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

Docket No.: EHF-14-1024

Page 2 of 4

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: Light emitting diode chip
Filing Date: 02/24/2014 (MM/DD/YYYY)
Filing Number: 14/240,443
Internal Case Number(s): EHF-14-1024

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

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

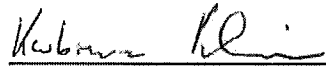
Docket No.: EHF-14-1024

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



Korbinian Perzlmaier

Eichinger Christian
printed name of witness

March 14th, 2014
Date

Witness Signature

Kai Gehrke

printed name of witness

Date

Witness Signature

Robert Walter

printed name of witness

Date

Witness Signature

Karl Engl

printed name of witness

Date

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)
Docket No.: EHF-14-1024
Page 4 of 4

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|----------------------------------|----------------------|
| _____ Witness Signature | _____ Guido Weiss |
| _____ printed name of witness | _____ Date |

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| _____ Witness Signature | _____ Markus Maute |
| _____ printed name of witness | _____ Date |

| | |
|----------------------------------|---------------------------------|
| _____ Witness Signature | _____ Stefanie Rammelsberger |
| _____ printed name of witness | _____ Date |

Companies Representative(s)
OSRAM Opto Semiconductors GmbH

Signature
Name

Date

Signature
Name

Date

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

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Kai Gehrke,
residing at ~~An der Isarlinie 4~~
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*Prüfeningers Schloss - Straße 73e
93051 Regensburg*

Kf

March 19. 2014

Robert Walter,
residing at Hammermühlweg 7
92331 Parsberg
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citizen of Germany

Karl Engl,
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citizen of Germany

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Stefanie Rammelsberger,
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Patent Application Title: Light emitting diode chip

Filing Date: 02/24/2014 (MM/DD/YYYY)

Filing Number: 14/240,443

Internal Case Number(s): EHF-14-1024

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(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

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

Docket No.: EHF-14-1024

Page 3 of 4

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Witness Signature

Korbinian Perzmaier

printed name of witness

Date

Christian Schi
Witness Signature

Kai Gehrke
Kai Gehrke

Christian Schmid
printed name of witness

March 14. 2014
Date

Witness Signature

Robert Walter

printed name of witness

Date

Witness Signature

Karl Engl

printed name of witness

Date

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)
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Page 4 of 4

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| _____ printed name of witness | _____ Date |

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| _____ Witness Signature | _____ Stefanie Rammelsberger |
| _____ printed name of witness | _____ Date |

Companies Representative(s)
OSRAM Opto Semiconductors GmbH

Signature
Name

Date

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Page 2 of 4

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Patent Application Title: Light emitting diode chip

Filing Date: 02/24/2014 (MM/DD/YYYY)

Filing Number: 14/240,443

Internal Case Number(s): EHF-14-1024

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Witness Signature

Korbinian Perzlmaier

printed name of witness

Date

Witness Signature

Kai Gehrke

printed name of witness

Date

Kai Gehrke

Witness Signature

Robert Walter

Robert Walter

Kai Gehrke

printed name of witness

March 13th, 2014

Date

Witness Signature

Karl Engl

printed name of witness

Date

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)
Docket No.: EHF-14-1024
Page 4 of 4

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| _____ Witness Signature | _____ Guido Weiss |
| _____ printed name of witness | _____ Date |

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| _____ Witness Signature | _____ Markus Maute |
| _____ printed name of witness | _____ Date |

| | |
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Companies Representative(s)
OSRAM Opto Semiconductors GmbH

Signature
Name

Date

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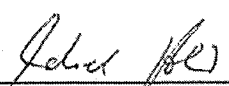
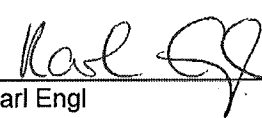
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| | |
|---|--|
|  _____ Witness Signature |  _____ Karl Engl |
| <u>HUBER</u> _____ printed name of witness | <u>March 24th 2014</u> _____ Date |

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)
Docket No.: EHF-14-1024
Page 4 of 4

| | |
|----------------------------------|----------------------|
| _____ Witness Signature | _____ Guido Weiss |
| _____ printed name of witness | _____ Date |

| | |
|----------------------------------|-----------------------|
| _____ Witness Signature | _____ Markus Maute |
| _____ printed name of witness | _____ Date |

| | |
|----------------------------------|---------------------------------|
| _____ Witness Signature | _____ Stefanie Rammelsberger |
| _____ printed name of witness | _____ Date |

Companies Representative(s)
OSRAM Opto Semiconductors GmbH

Signature
Name

Date

Signature
Name

Date

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

Docket No.: EHF-14-1024

Page 1 of 4

ASSIGNMENT

For good and valuable consideration, I (We),

Korbinian Perzlmaier,
residing at Bischof-Konrad-Str. 2
93051 Regensburg
Germany
citizen of Germany

Kai Gehrke,
residing at An der Iselrinne 4
93053 Regensburg
Germany
citizen of Germany

Robert Walter,
residing at Hammermühlweg 7
92331 Parsberg
Germany
citizen of Germany

Karl Engl,
residing at Rehfeld 25 a
93080 Pentling
Germany
citizen of Germany

Guido Weiss,
residing at Seifensiedergasse 4 a
93059 Regensburg
Germany
citizen of Germany

Markus Maute,
residing at Köferinger Weg 15
93087 Alteglofsheim
Germany
citizen of Germany

Stefanie Rammelsberger,
residing at Hopfenweg 37
93197 Zeitlarn
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,

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

Docket No.: EHF-14-1024

Page 2 of 4

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: Light emitting diode chip

Filing Date: 02/24/2014 (MM/DD/YYYY)

Filing Number: 14/240,443

Internal Case Number(s): EHF-14-1024

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

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

Docket No.: EHF-14-1024

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

Korbinian Perzlmaier

printed name of witness

Date

Witness Signature

Kai Gehrke

printed name of witness

Date

Witness Signature

Robert Walter

printed name of witness

Date

Witness Signature

Karl Engl

printed name of witness

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Patent Application Title: Light emitting diode chip
Filing Date: 02/24/2014 (MM/DD/YYYY)
Filing Number: 14/240,443
Internal Case Number(s): EHF-14-1024

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

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)
Docket No.: EHF-14-1024
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(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 | _____ Korbinian Perzlmaier |
| _____ printed name of witness | _____ Date |

| | |
|----------------------------------|---------------------|
| _____ Witness Signature | _____ Kai Gehrke |
| _____ printed name of witness | _____ Date |

| | |
|----------------------------------|------------------------|
| _____ Witness Signature | _____ Robert Walter |
| _____ printed name of witness | _____ Date |

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

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)
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Page 4 of 4

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|----------------------------------|----------------------|
| _____ Witness Signature | _____ Guido Weiss |
| _____ printed name of witness | _____ Date |

| | |
|--|---|
| _____ <i>Kai Gehrlke</i> Witness Signature | _____ <i>Markus Maute</i> Markus Maute |
| _____ <i>Kai Gehrlke</i> printed name of witness | _____ <i>14th of March 2014</i> Date |

| | |
|----------------------------------|---------------------------------|
| _____ Witness Signature | _____ Stefanie Rammelsberger |
| _____ printed name of witness | _____ Date |

Companies Representative(s)
OSRAM Opto Semiconductors GmbH

Signature
Name

Date

Signature
Name

Date

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Patent Application Title: Light emitting diode chip
Filing Date: 02/24/2014 (MM/DD/YYYY)
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Witness Signature

Korbinian Perzlmaier

printed name of witness

Date

Witness Signature

Kai Gehrke

printed name of witness

Date

Witness Signature

Robert Walter

printed name of witness

Date

Witness Signature

Karl Engl

printed name of witness

Date

Witness Signature

Guido Weiss

printed name of witness

Date

Witness Signature

Markus Maute

printed name of witness

Date

Anna Kasprzak
Witness Signature

Stefanie Rammelsberger
Stefanie Rammelsberger

ANNA KASPRZAK - ZABŁOCIA
printed name of witness

19-03-14
Date

Companies Representative(s)
OSRAM Opto Semiconductors GmbH

Signature
Name

Date

Signature
Name

Date

P2011,0748 US N / 3065 / 2011P13062WOUS (TK/GA,KRA)

Docket No.: EHF-14-1024

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Patent Application Title: Light emitting diode chip
Filing Date: 02/24/2014 (MM/DD/YYYY)
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Docket No.: EHF-14-1024

Page 4 of 4

Witness Signature

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printed name of witness

Date

Witness Signature

Markus Maute

printed name of witness

Date

Witness Signature

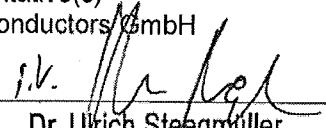
Stefanie Rammelsberger

printed name of witness

Date

Companies Representative(s)
OSRAM Opto Semiconductors GmbH

Signature



Name

Dr. Ulrich Stegmüller

Vice President & CTO

Date 17. MRZ. 2014

Signature



Name

NIKOLAUS GMEINWIESER

SENIOR MANAGER

INTELLECTUAL PROPERTY

Date

13. März 2014