503588625 11/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3635255

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| Holger Walter | 11/16/2015 |
| Alexander Wolf | 11/23/2015 |

RECEIVING PARTY DATA

| Name: | CARL ZEISS SMT GMBH |
|-----------------|-----------------------|
| Street Address: | RUDOLF-EBER-STRASSE 2 |
| City: | OBERKOCHEN |
| State/Country: | GERMANY |
| Postal Code: | 73447 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14851107 |

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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: (650) 839-5070 Email: apsi@fr.com **Correspondent Name:** KA-LO YEH

Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

| ATTORNEY DOCKET NUMBER: | 18239-0115001 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | ALISSA TIZZANO |
| SIGNATURE: | /Alissa/ |
| DATE SIGNED: | 11/30/2015 |

Total Attachments: 2

source=0115_ASSIGNMENT#page1.tif source=0115_ASSIGNMENT#page2.tif

> **PATENT REEL: 037167 FRAME: 0513** 503588625

Attorney Docket No.: 18239-0115001 / 17300.2

<u>ASSIGNMENT</u>

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, <u>HOLGER WALTER</u>, and <u>ALEXANDER WOLF</u>, each individually assign to <u>CARL ZEISS SMT GMBH</u>, a corporation formed under the laws of and having a principal place of business at <u>Rudolf-Eber-Strasse 2</u>, 73447 Oberkochen, <u>Germany</u>, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "<u>MICROLITHOGRAPHIC APPARATUS AND METHOD OF VARYING A LIGHT IRRADIANCE DISTRIBUTION</u>", and was filed in the United States Patent and Trademark Office on <u>September 11</u>, 2015, as application <u>14/851,107</u> (the "Application").

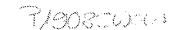
This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

Assignment Page 1 of 2



documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignce the rights, titles, and interests assigned by this Assignment.

| Holger Walter | Date: Nove_lr 16, 2015 |
|----------------------------------|-------------------------|
| Holger/waiter Witnessed by: | |
| Signature: <u>Avrishia Garke</u> | Date: November 16 201 |
| Print Name: | |
| Signature: | Date: |
| Print Name: | |
| | |
| | |
| Alexander Oelt | Date: November, 23 2015 |
| Alexander Wolf | , |
| Witnesself by: Signature: | |
| Signature: WW D SINC | Date: November 23, 2015 |
| Print Namel MONIKA SUSTIC | |
| Signature: | Date: |
| Print Name: | |
| | |

Assignment Page 2 of 2

PATENT REEL: 037167 FRAME: 0515

30906936.doc