**PATENT ASSIGNMENT**

**SUBMISSION TYPE:** NEW ASSIGNMENT

**NATURE OF CONVEYANCE:** ASSIGNMENT

### CONVEYING PARTY DATA

<table>
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<tr>
<th>Name</th>
<th>Execution Date</th>
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</thead>
<tbody>
<tr>
<td>Boris Bittner</td>
<td>04/07/2011</td>
</tr>
<tr>
<td>Holger Walter</td>
<td>04/07/2011</td>
</tr>
<tr>
<td>Matthias Roesch</td>
<td>04/07/2011</td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Property Type</th>
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<tbody>
<tr>
<td>Application Number</td>
<td>13069551</td>
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### CORRESPONDENCE DATA

- **Fax Number:** (877)769-7945
- **Correspondence will be sent via US Mail when the fax attempt is unsuccessful.**
- **Phone:** (617) 542-5070
- **Email:** alp@fr.com
- **Correspondent Name:** Sean P. Daley
- **Address Line 1:** FISH & RICHARDSON P.C.
- **Address Line 2:** P.O.BOX 1022
- **Address Line 4:** MINNEAPOLIS, MINNESOTA 55440-1022

### ATTORNEY DOCKET NUMBER:

- 17979-0113001

### NAME OF SUBMITTER:

- Alissa Tizzano

Total Attachments: 2

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ASSIGNMENT

For valuable consideration, we, BORIS BITTNER of Rheingoldstr. 6, 91154 Roth, Germany, HOLGER WALTER of Kolonie 20, 73453 Abtsgmuend, Germany, MATTHIAS ROESCH of Galgenbergstrasse 23, 73431 Aalen, Germany, hereby assign to:

Carl Zeiss SMT GmbH, a corporation of Germany, having a place of business at:

Rudolf-Eber-Strasse 2
73447 Oberkochen
Germany; and

its successors and assigns (collectively hereinafter called “the Assignee”), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PROJECTION EXPOSURE APPARATUS WITH OPTIMIZED ADJUSTMENT POSSIBILITY, filed 3/23/2011, and assigned U.S. Serial Number 13/069,551, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors’ certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.
Date: April 7, 2011

Witnessed by:

Name: Christina Grostig

Name: __________________________

Date: April 7, 2011

Date: __________________________

Date: April 7, 2011

Name: Holger Walter

Name: __________________________

Date: __________________________

Date: __________________________

Date: April 7, 2011

Name: Matthias Roesch

Name: __________________________

Date: __________________________