

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|-----------------------|---------------------|---------------------|-----------------------|----------------|------------|-----------------|------------|-------------------|------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Daniel Kraehmer</td><td>12/15/2010</td></tr><tr><td>Wilhelm Ulrich</td><td>12/17/2010</td></tr><tr><td>Matthias Manger</td><td>01/18/2011</td></tr><tr><td>Bernhard Gellrich</td><td>01/24/2011</td></tr></tbody></table> | Name | Execution Date | Daniel Kraehmer | 12/15/2010 | Wilhelm Ulrich | 12/17/2010 | Matthias Manger | 01/18/2011 | Bernhard Gellrich | 01/24/2011 | |
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| <table border="1"><tr><td>Name:</td><td>Carl Zeiss SMT GmbH</td></tr><tr><td>Street Address:</td><td>Rudolf-Eber-Strasse 2</td></tr><tr><td>City:</td><td>Oberkochen</td></tr><tr><td>State/Country:</td><td>GERMANY</td></tr><tr><td>Postal Code:</td><td>73447</td></tr></table> | Name: | Carl Zeiss SMT GmbH | Street Address: | Rudolf-Eber-Strasse 2 | City: | Oberkochen | State/Country: | GERMANY | Postal Code: | 73447 | |
| Name: | Carl Zeiss SMT GmbH | | | | | | | | | | |
| Street Address: | Rudolf-Eber-Strasse 2 | | | | | | | | | | |
| City: | Oberkochen | | | | | | | | | | |
| State/Country: | GERMANY | | | | | | | | | | |
| Postal Code: | 73447 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12993540</td></tr></tbody></table> | Property Type | Number | Application Number: | 12993540 | | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 12993540 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: (877)769-7945 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | |
| 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: | 17979-0226US1 | | | | | | | | | | |
| NAME OF SUBMITTER: | Alissa Tizzano | | | | | | | | | | |
| Total Attachments: 3 source=226assign#page1.tif source=226assign#page2.tif source=226assign#page3.tif | | | | | | | | | | | |

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PATENT
REEL: 026051 FRAME: 0182

ASSIGNMENT

For valuable consideration, we, DANIEL KRAEHMER of Birnenweg 2, 73457 Essingen, Germany, WILHELM ULRICH of Lederackerring 44, 73434 Aalen, Germany, MATTHIAS MANGER of Samentalweg 5, D-73432 Aalen-Unterkochen, Germany, BERNHARD GELLRICH of Hermelinstrasse 39/4, 73434 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 OPTICAL SYSTEM FOR MICROLITHOGRAPHY, filed 11/19/2010, and assigned U.S. Serial Number 12/993,540, 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: 12/15/2010

Daniel Kraehmer
DANIEL KRAEHMER

Witnessed by:

Name: Christina Gostin

Date: December 15, 2010

Name: _____

Date: _____

Date: _____

WILHELM ULRICH

Witnessed by:

Name: _____

Date: _____

Name: _____

Date: _____

Date: 01/18/2011

Matthias Manger
MATTHIAS MANGER

Witnessed by:

Name: Christina Gostin

Date: January 18, 2011

Name: _____

Date: _____

Date: 01/24/2011

Bernhard Gelrich
BERNHARD GELRICH

Witnessed by:

Name: Edith St.

Date: January 24, 2011

Name: _____

Date: _____

Date: _____

DANIEL KRAEHMER

Witnessed by:

Name: _____

Date: _____

Name: _____

Date: _____

Date: Dec 17, 2010

Wilhelm Ulrich

WILHELM ULRICH

Witnessed by:

Name: A. Kuehnel

Date: Dec. 17, 2010

Name: S. Sperfeldt

Date: Dec. 17, 2010

Date: _____

MATTHIAS MANGER

Witnessed by:

Name: _____

Date: _____

Name: _____

Date: _____

Date: _____

BERNHARD GELLRICH

Witnessed by:

Name: _____

Date: _____

Name: _____

Date: _____

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