

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Albrecht Ehrmann	11/07/2006
Ulrich Wegmann	11/06/2006
Rainer Hoch	11/13/2006
Joerg Mallmann	11/18/2006
Karl-Heinz Schuster	11/10/2006
Ulrich Loering	11/14/2006
Toralf Gruner	11/08/2006
Bernhard Kneer	11/10/2006
Bernhard Geuppert	11/06/2006
Franz Sorg	11/10/2006
Jens Kugler	11/13/2006
Norbert Wabra	11/15/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CARL ZEISS SMT AG
<b>Street Address:</b>	RUDOLF-EBER-STRASSE 2
<b>City:</b>	OBERKOCHEN
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	73447
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15250241
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<i>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.</i>	
<b>Phone:</b>	(650) 839-5070
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	KA-LO YEH
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022

PATENT

<b>Address Line 4:</b> MINNEAPOLIS, MINNESOTA 55440-1022	
<b>ATTORNEY DOCKET NUMBER:</b>	18239-0020004
<b>NAME OF SUBMITTER:</b>	ALISSA TIZZANO
<b>SIGNATURE:</b>	/Alissa/
<b>DATE SIGNED:</b>	08/30/2016
<b>Total Attachments: 4</b> source=Assign#page1.tif source=Assign#page2.tif source=Assign#page3.tif source=Assign#page4.tif	

# ASSIGNMENT

For valuable consideration, we,

Albrecht Ehrmann, An der Eichhalde 2, D-89551 Koenigsbronn, Germany

Ulrich Wegmann, Erlenweg 5, D-89551 Koenigsbronn, Germany

Rainer Hoch, Schumannstr. 18, D-73430 Aalen, Germany

Joerg Mallmann, Huettenweg 12, D-56154 Boppard, Germany

Karl-Heinz Schuster, Rechbergstr. 24, D-89551 Koenigsbronn, Germany

Ulrich Loering, Freiherr-von-Liebig-Str. 4, D-73447 Oberkochen, Germany

Toralf Gruner, Opalstr. 22, D-73433 Aalen-Hofen, Germany

Bernhard Kneer, Muehlenweg 9, D-89605 Altheim, Germany

Bernhard Geuppert, Kiefernweg 14, D-73430 Aalen, Germany

Franz Sorg, Hegelstr. 86, D-73431 Aalen, Germany

Jens Kugler, Walkstr. 64, D-73431 Aalen, Germany

Norbert Wabra, Am Ring 20, D97440 Werneck, Germany

hereby assign to:

**Carl Zeiss SMT AG**, a corporation of **Germany** having a place of business at: Rudolf-Eber-Str. 2, D-73447 Oberkochen, DE; and its successors and assign (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

## **MIKROLITHOGRAPHIC PROJECTION EXPOSURE APPARATUS AND MEASURING DEVICE FOR A PROJECTION LENS**

filed July 18, 2006, and assigned U.S. Serial Number 11/458,216, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; 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 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.

**PATENT**

**REEL: 039577 FRAME: 0687**

Date: Nov 7, 2006 Albrecht Ehrmann

Albrecht Ehrmann

Date: Nov. 6, 2006 Ulrich Wegmann

Ulrich Wegmann

Date: Nov. 13, 2006 Rainer Hoch

Rainer Hoch

Date: \_\_\_\_\_

Joerg Mallmann

Date: Nov 10, 2006 Karl-Heinz Schuster

Karl-Heinz Schuster

Date: Nov. 14, 2006 Ulrich Loering

Ulrich Loering

Date: Nov. 8, 2006 Toralf Gruner

Toralf Gruner

Date: Nov. 10, 2006 Bernhard Kneer

Bernhard Kneer

Date: Nov 6, 2006 B. Geuppert

Bernhard Geuppert

Date: Nov 10, 2006 Franz Sorg

Franz Sorg

Date: Nov 13, 2006 Jens Kugler

Jens Kugler

Date: Nov 15, 2006 Norbert Wabra

Norbert Wabra

**ASSIGNMENT**

For valuable consideration, we,

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**PATENT**

Date: \_\_\_\_\_


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Date: \_\_\_\_\_

Ulrich Wegmann

Date: \_\_\_\_\_

Rainer Hoch

Date: Nov. 18, 2006 

Joerg Mallmann

Date: \_\_\_\_\_

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Date: \_\_\_\_\_

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Bernhard Kneer

Date: \_\_\_\_\_

Bernhard Geuppert

Date: \_\_\_\_\_

Franz Sorg

Date: \_\_\_\_\_

Jens Kugler

Date: \_\_\_\_\_

Norbert Wabra