PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ulrich Weber	02/08/2011
Stefan Hembacher	02/01/2011
Armin Schoeppach	01/27/2011

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:	14840394

CORRESPONDENCE DATA

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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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	42047-0041003
NAME OF SUBMITTER:	GINA MALDONADO
SIGNATURE:	/Gina Maldonado/
DATE SIGNED:	09/03/2015

Total Attachments: 4

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PATENT 503465191 REEL: 036486 FRAME: 0539

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Attorney's Docket No.: 22942-0041001 / ZS 8170PCT/US

ASSIGNMENT

For valuable consideration, we, <u>ULRICH WEBER</u> of <u>Rosensteinweg 43, 89075 Ulm</u>, <u>Germany</u>, <u>STEFAN HEMBACHER</u> of <u>Bussardweg 7, 86399 Bobingen</u>, <u>Germany</u>, <u>ARMIN SCHOEPPACH</u> of <u>Schlehenweg 50</u>, <u>D-73431 Aalen</u>, <u>Germany</u>, hereby assign to: <u>Carl Zeiss SMT GmbH</u>, a corporation of <u>Germany</u> 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 ACTUATORS AND MICROLITHOGRAPHY PROJECTION EXPOSURE SYSTEMS AND METHODS USING THE SAME, filed 1/19/2011, and assigned U.S. Serial Number 13/009,438, 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.

	Attorney's Docket No.: 22942-0041001 / ZS 8170PCT/US
Date: Feb. 08, 2011	ULRICH WEBER
Witnessed by:	
Name: A. Menslind	Date: <u>Feb. 8, 2011</u>
Name:	Date:
Date:	STEFAN HEMBACHER
Witnessed by:	
Name:	Date:
Name:	Date:
Date:	ARMIN SCHOEPPACH
Witnessed by:	
. Name:	Date:
Name:	Date:

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Attorney's Docket No.: 22942-0041001 / ZS 8170PCT/US

Date:	ULRICH WEBER
Witnessed by:	
Name:	Date:
Name:	Date:
Date: 2. 1. 11	STEFAN HEMBACHER
Witnessed by: Name: All Sign	Date: <u>February</u> 1 2011
Name:	Date:
Date:	ARMIN SCHOEPPACH
Witnessed by:	
Name:	Date:
Name:	Date:

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Attorney's Docket No.: 22942-0041001 / ZS 8170PCT/US

Date:	
	ULRICH WEBER
Witnessed by:	
Name:	Date:
Name:	Date:
Date:	STEFAN HEMBACHER
Witnessed by:	
Name:	Date:
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Date: <u>Jau 27, 2011</u>	Mun Schoeppach
Witnessed by:	
Name:	Date:
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PATENT REEL: 036486 FRAME: 0544

RECORDED: 09/03/2015