

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4302030

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	Johannes Ruoff	05/31/2016
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:	14945837
CORRESPONDENCE DATA		
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ATTORNEY DOCKET NUMBER:	24548-0055001	
NAME OF SUBMITTER:	CHERYL A. FORREST	
SIGNATURE:	/Cheryl A. Forrest/	
DATE SIGNED:	03/03/2017	
Total Attachments: 6		
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, JOHANNES RUOFF, and JOSEF RAPP, each individually assign to CARL ZEISS SMT GMBH, a corporation formed under the laws of Germany and having a principal place of business at Rudolf-Eber-Strasse 2, 73447 Oberkochen, Germany, 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 "IMAGING OPTICAL UNIT FOR EUV PROJECTION LITHOGRAPHY," and was filed in the United States Patent and Trademark Office on November 19, 2015, as application 14/945,837 (the "Application").

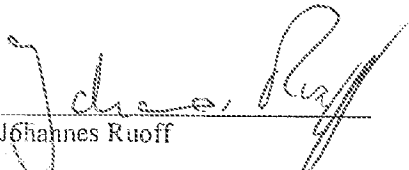
This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country 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.

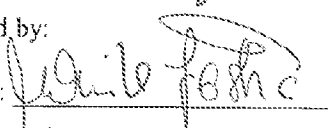
We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

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


Johannes Ruoff

Date: May 31 2016

Witnessed by:

Signature: 
Print Name: MONIKA SESTIC

Date: May 31, 2016

Signature: _____

Date: _____

Print Name: _____

Josef Rapp Date: _____

Witnessed by:

Signature: _____ Date: _____

Print Name: _____

Signature: _____ Date: _____

Print Name: _____

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CARL ZEISS SMT GMBH

Signature: _____ Date: _____

Name: _____

Title: _____

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ASSIGNMENT

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

Johannes Ruoff Date: _____

Witnessed by:

Signature: _____ Date: _____

Print Name: _____

Signature: _____ Date: _____

Print Name: _____

Josef Rapp Date: _____

Witnessed by:

Signature: _____ Date: _____

Print Name: _____

Signature: _____ Date: _____

Print Name: _____

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CARL ZEISS SMT GMBH

Signature: i.v. Schulte i.v. Okon Date: 05/31/16

Name: i.v. Joerg Schulte i.v. Thomas Okon

Title: Authorized clerk authorized clerk

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