

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JÖRG FREDERIK BLUMRICH	01/17/2018
JOHANNES RUOFF	01/15/2018
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15838699
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DATE SIGNED:	01/23/2018
Total Attachments: 3	
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, JÖRG FREDERIK BLUMRICH, and JOHANNES RUOFF, 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 "METHOD AND APPARATUS FOR EXAMINING AN ELEMENT OF A PHOTOLITHOGRAPHIC MASK FOR THE EUV RANGE," and was filed in the United States Patent and Trademark Office on December 12, 2017, as application 15/838,699 (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.

F-B
Jörg Frederik Blumrich

Date: 01/17/2018

Witnessed by:

Signature: [Signature]

Date: 01/17/2018

Print Name: Sackelmaier

Signature: [Signature]

Date: 01/17/2018

Print Name: RENTSCH

Johannes Ruoff
Johannes Ruoff

Date: January 15, 2018

Witnessed by:

Signature: Edith Jorg

Date: January 15, 2018

Print Name: EDITH JORG

Signature: _____

Date: _____

Print Name: _____

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CARL ZEISS SMT GMBH

Signature: Olaf Dittmann

Signature: Frank Wehrhahn

Date: Jan, 22, 2018

Name: Olaf Dittmann

Name: Frank Wehrhahn

Title: authorized clerk

Title: authorized clerk

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