

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Ralf Moser	07/22/2019
Florian Herold	07/09/2019
Arno Schmittner	07/09/2019
Holger Kierey	07/22/2019
Wolfgang Merkel	08/15/2019
Georgo Metalidis	07/17/2019
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:	16447001
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	(617) 542-5070
Email:	apsi@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:	20228-0111001
NAME OF SUBMITTER:	ALISSA TIZZANO
SIGNATURE:	/Alissa/
DATE SIGNED:	10/03/2019

Total Attachments: 7

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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, RALF MOSER, FLORIAN HEROLD, ARNO SCHMITTNER, HOLGER KIEREY, WOLFGANG MERKEL, and GEORGO METALIDIS, 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 invention(s) (the "Subject Matter") described in a patent application that names us as inventors, is titled "OPTICAL ELEMENT, IN PARTICULAR FOR A MICROLITHOGRAPHIC PROJECTION EXPOSURE APPARATUS," and was filed in the United States Patent and Trademark Office on June 20, 2019, as application 16/447,001 (the "Application").

This Assignment assigns, in addition to the Subject Matter of the Application, (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 and under every treaty or convention, (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.

Ralf Moser
Ralf Moser

Date: *July 22, 2019*

Witnessed by:

Signature: *[Signature]*

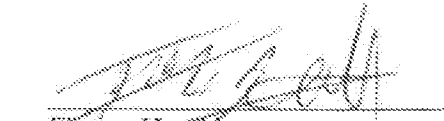
Date: *July 22, 2019*

Print Name: *Holger Weyer*

Signature: *Eugen Anselm*

Date: *August 19, 2015*

Print Name: *Eugen Anselm*


Florian Herold

Date: July 9th 2019

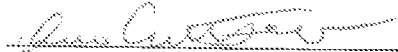
Witnessed by:

Signature: Christina Gostung Date: July 9, 2019

Print Name: Christina Gostung

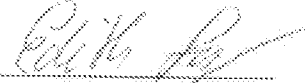
Signature: _____ Date: _____

Print Name: _____


Arno Schmittner

Date: 07/07/19

Witnessed by:

Signature: 

Date: July 9, 2019

Print Name: EDITH SORE

Signature: _____

Date: _____

Print Name: _____

Holger Kierrey
Holger Kierrey

Date: July 22, 2019

Witnessed by:

Signature: U. Butsch

Date: August 19, 2019

Print Name: _____

Signature: Eugen Anselm


Date: August 15, 2019

Print Name: Eugen Anselm


Wolfgang Merkel

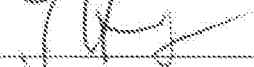
Date: 15.08.2019

Witnessed by:

Signature: 

Date: 15.8.2019

Print Name: Michael Brehm

Signature: 

Date: 15.08.2019

Print Name: Jörg Haug

G. Metalidis

Georgo Metalidis

Date: July 17, 2019

Witnessed by:

Signature: _____

Date: _____

Print Name: _____

Signature: _____

Date: _____

Print Name: _____

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