PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Johann Trenkler	11/14/2005
Hans-Juergen Mann	10/20/2005
Udo Nothelfer	11/05/2005

RECEIVING PARTY DATA

Name:	Carl Zeiss SMT AG	
Street Address:	Rudolf-Eber-Strasse 2	
City:	73447 Oberkochen	
State/Country:	GERMANY	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13939346

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	36865-0002002
NAME OF SUBMITTER:	Cheryl A. Forrest
Signature:	/Cheryl A. Forrest/
Date:	07/12/2013
	PATENT

502416795 REEL: 030783 FRAME: 0148

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Total Attachments: 4

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> PATENT REEL: 030783 FRAME: 0149

Docket No.: FMW-CG-PCT-US (CZ 70 US)

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned by the Assignee,

CARL ZEISS SMT AG

a corporation organized under the laws of the Germany, domiciled at

Carl-Zeiss-Strasse 22, 73447 Oberkochen, Germany,

receipt whereof is hereby acknowledged, the undersigned by these presents hereby sells, assigns, transfers, and sets over unto said assignee the entire right, title and interest in and to the invention or improvement in

"REFLECTIVE OPTICAL ELEMENT AND EUV LITHOGRAPHY APPLIANCE"

said invention being fully described and/or claimed in the application for Letters Patent of the United States of America, executed this date(s), as well as any divisional, continuing, reissue, reexamination, or other patent applications, in and for the United States and all foreign countries, the same to be held and enjoyed by said assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

AND SAID ASSIGNEE IS HEREBY AUTHORIZED to make application for and to receive Letters Patent for said invention in any of said countries at its election.

AND BY THIS COVENANT the undersigned will execute or procure any further necessary assurance of title to said invention and Letters Patent; and at any time, upon the request of said assignee, will execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor to said Assignee, its successors, assigns or other legal representatives, and, upon the request of said assignee, will execute any divisional, continuing, reissue, reexamination, or other applications for patents for said invention, in any country, and will make all rightful oaths and do all lawful acts requisite for aiding, procuring, or maintaining the same or for aiding therein.

AND THE COMMISSIONER of Patents is hereby authorized and requested to issue any and all Letters Patent to the United States for said invention, to said assignee.

SIGNED as indicated adjacent my signature.

Docket No.: FMW-CA-PCT-US (CZ 68 US)

Page 1 of 2

PATENT REEL: 0170**26 FRMM**E: 0253 REEL: 030783 FRAME: 0150

JOHANN TRENKLER	Date
Location:	
Witnessed	
Name:	
(Printed or Typed)	Date /
HANS-JÜRGEN MANN	Date
Location:	
Witnessed	
Name:	
(Printed or Typed)	Date
I hable	C11.05
UDONOTHELFER/	Date
Location: Carl Geiss AG, Patentableilung	73446 Overharben
Witnessed Ornishua Anthuy	
Name: Christina Gerstung	5.11.05
(Printed or Typed)	Date

Page 2 of 2

Docket No.: FMW-CG-PCT-US (CZ 10 US)

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned by the Assignee,

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"REFLECTIVE OPTICAL ELEMENT AND EUV LITHOGRAPHY APPLIANCE"

said invention being fully described and/or claimed in the application for Letters Patent of the United States of America, executed this date(s), as well as any divisional, continuing, reissue, reexamination, or other patent applications, in and for the United States and all foreign countries, the same to be held and enjoyed by said assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

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SIGNED as indicated adjacent my signature.

Docket No.: FMW-CA-PCT-US (CZ 68 US)

Page 1 of 2

PATENT REEL: 0170**26 FRM M**E: 0255 REEL: 030783 FRAME: 0152

Johann Trenkler J. Truth	Nov 14th 2005
JOHANN TRENKLER	Date
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(Printed or Typed)	Date
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Witnessed Marshva Garhay	
Name: Christina Gerslung	Oct 20th 2005
(Printed or Typed)	Date
UDO NOTHELFER	Date
Location:	
Witnessed	
Name:	
(Printed or Typed)	Date

Page 2 of 2

RECORDED: 91796/2005 **RECORDED: 07/12/2013**

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PATENT
REEL: 0170**PAFENME: 0256** AS REEL: 030783 FRAME: 0153