PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ATA				
		Name	Execution Date		
Olaf Rogalsky			05/29/2013		
Sonja Schneider		04/18/2013			
Boris Bittner		04/04/2013			
Jens Kugler		04/26/2013			
Bernhard Gellrich		04/17/2013			
Rolf Freimann			04/08/2013		
			04/08/2013		
RECEIVING PARTY DA	Carl Zeiss SM ⁻	T GmbH			
Street Address:	Rudolf-Eber-Strasse 2				
City:	Oberkochen				
	GERMANY				
	73447				
PROPERTY NUMBERS	Total: 1				
Property Type		Number			
		13790443			
CORRESPONDENCE D	ΑΤΑ				
Fax Number:	87776979	945			
		fail when the fax attempt is unsucce	essful.		
Phone: 212-765-5070					
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orrespondent Name: Chris C. Bowley					
Address Line 1:					
Address Line 2:	P.O.BOX				
Address Line 4:	MINNEAF	POLIS, MINNESOTA 55440-1022			
ATTORNEY DOCKET NUMBER:		23375-0007001			
			PATENT		
502373707			REEL: 030553 FRAME: 0830		

NAME OF SUBMITTER:	Alissa Tizzano	
Signature:	/Alissa/	
Date:	06/05/2013	
Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif		

ASSIGNMENT

For valuable consideration, we, <u>OLAF ROGALSKY</u> of <u>Katzenbachstrasse 5, 73447</u> <u>Oberkochen, Germany, SONJA SCHNEIDER</u> of <u>Jenaer Strasse 14, 73447 Oberkochen,</u> <u>Germany, BORIS BITTNER</u> of <u>Rheingoldstrasse 6, 91154 Roth, Germany, JENS KUGLER</u> of <u>Walkstrasse 64, 73431 Aalen, Germany, BERNHARD GELLRICH</u> of <u>Hermelinstrasse 39/4,</u> <u>73434 Aalen, Germany, and ROLF FREIMANN</u> of <u>Weisse Steige 20, 73431 Aalen, 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 <u>IMAGING OPTICAL SYSTEM FOR</u> <u>MICROLITHOGRAPHY</u>, filed <u>3/8/2013</u>, and assigned U.S. Serial Number <u>13/790.443</u>, 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.

Assignment Page 1 of 3

PATENT REEL: 030553 FRAME: 0832

Attorney's Docket No.: 23375-0007001 / ZE7050WOUS

Date:	OLAF ROGALSKY
Witnessed buy	OLAF ROGALSKÝ
Witnessed by:	
Name:	Date:
Name:	Date:
Date:	
Witnessed by	SONJA SCHNEIDER
Witnessed by:	
Name:	Date:
Name:	Date:
Date:	
	BORIS BITTNER
Witnessed by:	
Name:	Date:
Name:	Date:
Date:	
1774	JENS KUGLER
Witnessed by:	
Name:	Date:
Name:	Date:
As	signment Page 2 of 3

Date:	OLAF ROGALSKY
Witnessed by:	
Name:	Date:
Name:	Date:
Date: April 18, 2013	Sound Sound Sound Sound Schneider
Witnessed by:	
Name: Mristilia Genetiz	Date: <u>Aphil 18 2013</u>
Name:	
Date: April 4, 2013	BORIS BITTNER
Witnessed by:	
Name: Anisbica Gureta-	Date: <u></u>
Name:	
Date: <u>Apr, 126, 201</u> 3	Jens Rugler
Witnessed by:	
Name: <u>Maristica Genetra</u>	Date: <u>April 26, 2013</u>
Name:	Date:

Assignment Page 2 of 3

PATENT REEL: 030553 FRAME: 0834

Attorney's Docket No.: 23375-0007001 / ZE7050WOUS

Date: Mill 17, 2015

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BERNHARD GELLRICH

Witnessed by:

Name: <u>Mristing</u> 6 <u>ANN</u>

Date:

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ROLF FREIMANN

Witnessed by: Name:

Date: X

2013

Name: _____

Date:

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Assignment Page 3 of 3

PATENT **REEL: 030553 FRAME: 0835**

RECORDED: 06/05/2013