502133128 11/19/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Michael Patra	09/10/2012
Stig Bieling	09/11/2012
Markus Deguenther	09/26/2012
Frank Schlesener	09/14/2012
Markus Schwab	09/11/2012

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:	13604296

CORRESPONDENCE DATA

Fax Number: 8777697945

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (617) 542-5070 Email: apsi@fr.com Correspondent Name: Sean P. Daley

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ATTORNEY DOCKET NUMBER: 18239-0091001 NAME OF SUBMITTER:

Alissa Tizzano

Total Attachments: 3

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REEL: 029318 FRAME: 0531

PATENT

Attorney's Docket No.: 18239-0091001 / 15464.3

ASSIGNMENT

For valuable consideration, we, MICHAEL PATRA of Schubartweg 41, 73447

Oberkochen, Germany, STIG BIELING of Im Unterfeld 18, 73434 Aalen, Germany, MARKUS

DEGUENTHER of Langackerweg 20, 73432 Aalen, Germany, FRANK SCHLESENER of

Nelkenweg 2, D-73447 Oberkochen, Germany, MARKUS SCHWAB of Limesstrasse 47/2,

73434 Aalen, Germany, hereby assign to: Carl Zeiss SMT GmbH, a corporation of Germany
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 ILLUMINATION SYSTEM OF A MICROLITHOGRAPHIC PROJECTION EXPOSURE APPARATUS, filed 9/5/2012, and assigned U.S. Serial Number 13/604.296, 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: 029318 FRAME: 0532

Attorney's Docket No.: 18239-0091001 / 15464.3

Date: 500 10 44, 20 12	Milad Potron
•	MICHAEL PATRA
Witnessed by:	
Name: Edith Sy	
Name:	Date:
Date: 9 / 16/20 /2	Stig Bieling
Witnessed by:	
Name:	Date: <u>Testenhir 111 201</u> 2
Name:	
Date: <u>Solvator 75 ^{fr}, 2011</u>	MARKUS DEGUENTHER
Witnessed by:	
Name: Amstica Goding	Date: September 26,2012
Name:	
Date: September 14th, 2012	FRANK SCHLESENER
Witnessed by:	
Name: <i>Avristica Grobut</i>	Date: September 14,7012
Name:	Date:

Assignment Page 2 of 3

Attorney's Docket No.: 18239-0091001 / 15464.3

Date: OG/11/2012 Markus SCHWAB

Witnessed by:

Name: <u>Calek II</u> Date: <u>Rolember 11, 20</u>12

Name: ______ Date: _____

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Assignment Page 3 of 3

PATENT REEL: 029318 FRAME: 0534

RECORDED: 11/19/2012