11/13/2014 503060779

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hans-Juergen Mann	10/24/2008
Wilhelm Ulrich	10/16/2008

RECEIVING PARTY DATA

Name:	CARL ZEISS SMT AG
Street Address:	RUDOLF-EBER-STRASSE 2
City:	OBERKOCHEN
State/Country:	GERMANY
Postal Code:	73447

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14496367

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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.

Phone: 6175425070 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:	21070-0030002	
NAME OF SUBMITTER:	ALISSA TIZZANO	
SIGNATURE:	/Alissa/	
DATE SIGNED:	11/13/2014	

Total Attachments: 2

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> **PATENT** REEL: 034166 FRAME: 0955 503060779

Attorney's Docket No.: 21070-0030001 / P071973US

ASSIGNMENT

For valuable consideration, we, <u>HANS-JUERGEN MANN</u> of <u>Katzenbachstrasse 49</u>, <u>73447 Oberkochen, Germany</u>, <u>WILHELM ULRICH</u> of <u>Lederackerring 44</u>, <u>73434 Aalen</u>, <u>Germany</u>, hereby assign to: <u>Carl Zeiss SMT AG</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 MICROLITHOGRAPHY PROJECTION OPTICAL SYSTEM, TOOL AND METHOD OF PRODUCTION, filed 9/23/2008, and assigned U.S. Serial Number 12/235,957, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; 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.

> PATENT REEL: 034166 FRAME: 0956

Attorney's Docket No.: 21070-0030001 / P071973US .

Date: Oct 24 th, 2008	6,6
	HANS-JUERGEN MANN
Witnessed by:	V
Name: Edish Ing	Date: Atabet 24 2008
Name:	Date:
Date: 0c+ 16th, 2008	WHITEIMIT BICH
	WILHELM ULRICH
Witnessed by:	
Name: Mith Sy	Date: October 16, 2008
Name:	Date:

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RECORDED: 11/13/2014

PATENT REEL: 034166 FRAME: 0957