501869811 03/28/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Johannes Rau	01/21/2008
Armin Schoeppach	02/18/2008
Bernhard Geuppert	01/22/2008

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:	13431378

CORRESPONDENCE DATA

 Fax Number:
 (877)769-7945

 Phone:
 6175425070

 Email:
 apsi@fr.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

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: 22942-0011002

NAME OF SUBMITTER: Alissa Tizzano

Total Attachments: 2

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PATENT REEL: 027947 FRAME: 0959 0 13431378

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Attorney's Docket No.: 22942-011US1 / ZS 6726PCT/US

ASSIGNMENT

For valuable consideration, we, <u>JOHANNES RAU</u> of <u>Heinestrasse 20, 89547 Gerstetten</u>, <u>Germany</u>, <u>ARMIN SCHOEPPACH</u> of <u>Schlehenweg 50, 73431 Aalen, Germany</u>, <u>BERNHARD GEUPPERT</u> of <u>Kiefernweg 14, 73430 Aalen, Germany</u>, hereby assign to: <u>Carl Zeiss SMT AG</u>, a corporation of <u>Germany</u> having a place of business at:

Rudolf-Ebcr-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 OPTICAL ELEMENT, filed 1/2/2008, and assigned U.S. Serial Number 11/994,482, 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: 027947 FRAME: 0960

Date: Jan/21/2008	JOHANNES RAU
Witnessed by:	
Name: Sasine Jungo	Date: Jan 21 st 2008 Date: Jan 21 st 2008
Name: Would Fath	Date: 1 21 1 7008
Date: Feb., 18, 2008	April Dec Mechanin SCHOEPPACH
Witnessed by:	, ,
Name: M. Muche	Date: Februar 18,2008
Name: Libruil Jestic	Date: Teb 18 2008
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Date: 12 2008	BERNHARD GEUPPERT
Witnessed by:	·
Name: C. Brills	Date:
Name: Maril Sofic	Date: Jan 22, 2008 Date: Jan 22, 2008
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PATENT REEL: 027947 FRAME: 0961

RECORDED: 03/28/2012