PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Dirk Doering	07/04/2014

RECEIVING PARTY DATA

Name:	CARL ZEISS AG
Street Address:	DEP. CLP-PS
City:	OBERKOCHEN
State/Country:	GERMANY
Postal Code:	73446

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15895210

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	30623-0061002
NAME OF SUBMITTER:	CHERYL A. FORREST
SIGNATURE:	/Cheryl A. Forrest/
DATE SIGNED:	02/14/2018

Total Attachments: 2

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PATENT 504776959 REEL: 044919 FRAME: 0919

Attorney Docket No.: 30623-0061001 / P140670US M/Re Zeiss-P20230US

ASSIGNMENT

For valuable consideration, the receipt of which I acknowledge, and intending to be bound legally, I, <u>DIRK DOERING</u>, assign to <u>CARL ZEISS AG</u>, a corporation formed under the laws of and having a principal place of business at <u>Dep. CLP-PS</u>, 73446 Oberkochen, Germany, and its successors, transferees, and assignees (collectively the "Assignee"), all of my entire, right and interest in the inventions and improvements by me, as joint inventor with inventors Thomas Frank, Holger Seitz, Mario Laengle and Ulrich Matejka in the subject matter (the "Subject Matter") of a patent application that names me as inventor, is titled "<u>ILLUMINATION OPTICAL UNIT FOR A METROLOGY SYSTEM AND METROLOGY SYSTEM COMPRISING SUCH AN ILLUMINATION OPTICAL UNIT</u>", and was filed in the United States Patent and Trademark Office on <u>June 23, 2014</u>, as application <u>14/311,420</u> (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

I authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in my name or in the Assignee's name.

I represent and warrant that I have the right and power to make this Assignment and that I have not made and will not make any other assignment that conflicts with this Assignment.

I will communicate to the Assignce (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

Assignment Page 1 of 2

PATENT REEL: 044919 FRAME: 0920 documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Dirk Doering	Date: <u> </u>
Witnessed by:	
Signature: <u>~ }54/i//</u>	Date: <u>2014/07/07</u>
Print Name: Tim Hild chroudt	
Signature: 1	Date: <u>494/07/14</u>
Print Name: Rolph Sembler	• • • • • • • • • • • • • • • • • • • •

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CARL ZEISS AG

Signature: Date: 2 4. JUL. 2014

Name: i. V. Willi Muhsfeldt i. V. Dr. Utz Müller

Title: Director of Patent Department Authorizet Clerk

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RECORDED: 02/14/2018

Assignment Page 2 of 2

PATENT REEL: 044919 FRAME: 0921