

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
David R. Shafer	04/16/2009
Wilhelm Ulrich	04/20/2009
Aurelian Dodoc	05/05/2009
Rudolf Von Buenau	05/08/2009
Hans-Juergen Mann	04/15/2009
Alexander Epple	04/14/2009
Susanne Beder	05/14/2009
Wolfgang Singer	04/21/2009

**RECEIVING PARTY DATA**

Name:	Carl Zeiss SMT AG
Street Address:	Rudolf-Eber-Strasse 2
City:	Oberkochen
State/Country:	FEDERAL REPUBLIC GERMANY
Postal Code:	73447

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	12409394

**CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	17979-0138002
NAME OF SUBMITTER:	Alissa Passacantilli
Total Attachments: 7 source=138002_assign#page1.tif source=138002_assign#page2.tif source=138002_assign#page3.tif source=138002_assign#page4.tif source=138002_assign#page5.tif source=138002_assign#page6.tif source=138002_assign#page7.tif	

ASSIGNMENT

For valuable consideration, we, DAVID SHAFER of 56 Drake Lane, Fairfield, CT 06420, WILHELM ULRICH of Lederackerring 44, 73434 Aalen, Germany, AURELIAN DODOC of Schillerstrasse 15, 89522 Heidenheim, Germany, RUDOLF VON BUENAU of Iltisweg 1, 07749 Jena, Germany, HANS-JUERGEN MANN of Katzenbachstrasse 49, 73447 Oberkochen, Germany, ALEXANDER EPPLE of Langertstrasse 38, 73431 Aalen, Germany, SUSANNE BEDER of Brandenburger Strasse 59, 73431 Aalen, Germany, WOLFGANG SINGER of Egerlandstrasse 45, 73431 Aalen, Germany, hereby assign to: Carl Zeiss SMT AG, 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 CATADIOPTRIC PROJECTION OBJECTIVE, filed 3/23/2009, and assigned U.S. Serial Number 12/409,394, 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.

Date: April 16, 2009

David Shafer  
DAVID SHAFER

Witnessed by:

Name: Kemy Eastman

Date: April 16, 2009

Name: Dei Reat

Date: April 16, 2009

Date: \_\_\_\_\_

\_\_\_\_\_  
WILHELM ULRICH

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
AURELIAN DODOC

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
DAVID SHAFER

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: April 20, 2009

*Wilhelm Ulrich*  
WILHELM ULRICH

Witnessed by:

Name: *Christina Gortner*

Date: *April 20, 2009*

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: *May, 5th, 2009*

*Aurelian Dodoc*  
AURELIAN DODOC

Witnessed by:

Name: *Eldh Lon*

Date: *May 5, 2009*

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: May 8, 2009

Rudolf von Buena  
RUDOLF VON BUENAU

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
HANS-JUERGEN MANN

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
ALEXANDER EPPLE

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
RUDOLF VON BUENAU

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: April 15, 2009

  
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HANS-JUERGEN MANN

Witnessed by:

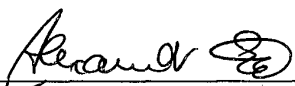
Name: Edith [Signature]

Date: April 15, 2009

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: APR 14, 2009

  
\_\_\_\_\_  
ALEXANDER EPPLE

Witnessed by:

Name: Edith [Signature]

Date: April 14, 2009

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: May 14th 2009

Susanne Beder  
SUSANNE BEDER

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

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Date: \_\_\_\_\_

\_\_\_\_\_  
WOLFGANG SINGER

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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Date: \_\_\_\_\_

\_\_\_\_\_  
SUSANNE BEDER

Witnessed by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: 21. APRIL 2009

W. Singer  
WOLFGANG SINGER

Witnessed by:

Name: Christine Genter

Date: April 21, 2009

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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