

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr><td>David Shafer</td><td>04/16/2009</td></tr> <tr><td>Wilhelm Ulrich</td><td>04/20/2009</td></tr> <tr><td>Aurelian Dodoc</td><td>05/05/2009</td></tr> <tr><td>Rudolf Von Buenau</td><td>05/08/2009</td></tr> <tr><td>Hans-Juergen Mann</td><td>04/15/2009</td></tr> <tr><td>Alexander Epple</td><td>04/14/2009</td></tr> <tr><td>Susanne Beder</td><td>05/14/2009</td></tr> <tr><td>Wolfgang Singer</td><td>04/21/2009</td></tr> </tbody> </table>		Name	Execution Date	David 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
Name	Execution Date																		
David 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																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>Carl Zeiss SMT AG</td></tr> <tr><td>Street Address:</td><td>Rudolf-Eber-Strasse 2</td></tr> <tr><td>City:</td><td>Oberkochen</td></tr> <tr><td>State/Country:</td><td>FEDERAL REPUBLIC GERMANY</td></tr> <tr><td>Postal Code:</td><td>73447</td></tr> </table>		Name:	Carl Zeiss SMT AG	Street Address:	Rudolf-Eber-Strasse 2	City:	Oberkochen	State/Country:	FEDERAL REPUBLIC GERMANY	Postal Code:	73447								
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																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12561019</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12561019														
Property Type	Number																		
Application Number:	12561019																		
CORRESPONDENCE DATA																			
<p>Fax Number: (877)769-7945 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 212-765-5070 Email: alp@fr.com</p> <p>Correspondent Name: Chris C. Bowley</p> <p>Address Line 1: FISH & RICHARDSON P.C. Address Line 2: P.O.BOX 1022 Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022</p>																			

CH \$40.00 12561019

500966065

PATENT
REEL: 023251 FRAME: 0577

ATTORNEY DOCKET NUMBER:	17979-0138003
NAME OF SUBMITTER:	Alissa Passacantilli
<p>Total Attachments: 7 source=assign#page1.tif source=assign#page2.tif source=assign#page3.tif source=assign#page4.tif source=assign#page5.tif source=assign#page6.tif source=assign#page7.tif</p>	

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 Iltilsweg 1, 07749 Jena, Germany, HANS-JUERGEN MANN of Katzenbachstrasse 49, 73447 Oberkochen, Germany, ALEXANDER EPPLER 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:

Kerry Eastman

Date:

April 16, 2009

Name:

Dee Root

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: Edith L.

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

G. J. Mann
HANS-JUERGEN MANN

Witnessed by:

Name: Elitha Sir

Date: April 11, 2009

Name: _____

Date: _____

Date: APR 14, 2009

Alexander Epple
ALEXANDER EPPLER

Witnessed by:

Name: Elitha Sir

Date: April 14, 2009

Name: _____

Date: _____

Date: May 14th 2003

Susanne Beder
SUSANNE BEDER

Witnessed by:

Name: _____

Date: _____

Name: _____

Date: _____

Date: _____

WOLFGANG SINGER

Witnessed by:

Name: _____

Date: _____

Name: _____

Date: _____

. 22158281.doc

Date: _____

SUSANNE BEDER

Witnessed by:

Name: _____

Date: _____

Name: _____

Date: _____

Date: 21 APRIL 2009

W. Singer
WOLFGANG SINGER

Witnessed by:

Name: Aristina Gentles

Date: April 21, 2009

Name: _____

Date: _____

. 22158281.doc