

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Peter Vogt</td> <td>04/29/2013</td> </tr> <tr> <td>Martin Hermann</td> <td>04/29/2013</td> </tr> <tr> <td>Oliver Dier</td> <td>04/29/2013</td> </tr> <tr> <td>Andras G. Major</td> <td>05/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	Peter Vogt	04/29/2013	Martin Hermann	04/29/2013	Oliver Dier	04/29/2013	Andras G. Major	05/03/2013
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Carl Zeiss SMT GmbH</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>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>73447</td> </tr> </table>		Name:	Carl Zeiss SMT GmbH	Street Address:	Rudolf-Eber-Strasse 2	City:	Oberkochen	State/Country:	GERMANY	Postal Code:	73447
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CORRESPONDENCE DATA											
<p>Fax Number: 8777697945  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 6175425070        Email: alp@fr.com        Correspondent Name: Sean P. Daley        Address Line 1: FISH &amp; RICHARDSON P.C.        Address Line 2: P.O.BOX 1022        Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022</p>											
ATTORNEY DOCKET NUMBER:	20228-0072001										
NAME OF SUBMITTER:	Alissa Tizzano										
Signature:	/Alissa/										

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Date:

05/07/2013

Total Attachments: 3

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ASSIGNMENT

For valuable consideration, we, PETER VOGT of Alfred-Delp-Weg 15, 89522 Heidenheim, Germany, MARTIN HERMANN of Studentenstrasse 10, 89518 Heidenheim, Germany, OLIVER DIER of Isaak-Hess-Weg 4, 73466 Lauchheim, Germany, and ANDRAS G. MAJOR of Adolph-Kolping-Strasse 49, 73447 Oberkochen, Germany,

hereby assign to:

Carl Zeiss SMT GmbH, 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 METHOD AND ARRANGEMENT FOR DETERMINING THE HEATING CONDITION OF A MIRROR IN AN OPTICAL SYSTEM, filed 4/16/2013, and assigned U.S. Serial Number 13/863,595, 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: 29. April 2013   
PETER VOGT

Witnessed by:

Name: Christina Gorkun Date: April 29, 2013

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

Date: April 29<sup>th</sup> 2013   
MARTIN HERMANN

Witnessed by:

Name: Wolfgang Fölsch Date: April 29, 2013

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

Date: 04/29/13   
OLIVER DIER

Witnessed by:

Name: Christina Gorkun Date: April 29, 2013

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

Date: \_\_\_\_\_  
ANDRAS G. MAJOR

Witnessed by:

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

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

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

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PETER VOGT

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MARTIN HERMANN

Witnessed by:

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

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

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

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

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

\_\_\_\_\_  
OLIVER DIER

Witnessed by:

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

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

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

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

Date: May 03, 2013

My A.  
\_\_\_\_\_  
ANDRAS G. MAJOR

Witnessed by:

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

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

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

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

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