

MAIL STOP ASSIGNMENTS

**CORRECTED RECORDATION FORM COVER SHEET  
PATENT APPLICATIONS & PATENTS ONLY**

TO THE COMMISSIONER OF THE U.S. PATENT &amp; TRADEMARK OFFICE:

Sir:

Please record the attached original documents or copy thereof as follows:

**1. NAME OF CONVEYING PARTIES [ASSIGNOR(S)]:**

a. Ralf ARNOLD

b. Bernd DÖRBAND

c. Frank SCHILLKE

d. Susanne BEDER

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO**2. PARTIES [ASSIGNEE(S)] RECEIVING INTEREST:**

NAME: Carl Zeiss SMT AG

ADDRESS: Rudolf-Eber-Strasse 2, Oberkochen, Germany 73447

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO**3. NATURE OF CONVEYANCE/DOCUMENT:** ASSIGNMENT OF WHOLE or PART INTEREST ORIGINAL FACSIMILE/PHOTOCOPY CHANGE OF NAME VERIFIED TRANSLATION SECURITY MERGER OTHER: Corrected Cover Sheet to correct execution date for Assignment recorded at Reel/Frame 021534/0014

Execution Date(s) on the Conveyance/Document: February 7, 2007; February 9, 2007; February 9, 2007; and February 1, 2007

Execution Date(s) on the Declaration (if filed herewith):

**4. APPLICATION AND/OR PATENT NUMBER(S):**Additional sheets attached?  YES  NO

a. Application Number(s)	Matter No.	First Inventor	b. Patent Number(s)	Matter No.	First Inventor
11/596,187	011816-0060-999	ARNOLD			

**5. NAME & ADDRESS OF PARTY TO WHOM CORRESPONDENCE CONCERNING DOCUMENT SHOULD BE MAILED:**

Customer No. 20583

Jones Day

Intellectual Property Group

222 East 41<sup>st</sup> Street

New York, NY 10017-6702

**6. NUMBER OF PROPERTIES INVOLVED:**Appns 1 + Patents 0 = Total: 1**7. AMOUNT OF FEE DUE:**Above Total 1 x \$40 = \$ 40 (Fee Code 8021)**8. PLEASE CHARGE TO:**DEPOSIT ACCOUNT NO. 503-013

Under Order No.

011816-0060-999

Matter No.

**9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.****10. TOTAL NUMBER OF PAGES (including cover sheet, attachments and documents): 8**


Signature

Name of Attorney:

Douglas H. Pearson

Date: December 5, 2008

Registration No.

47,851

Telephone: (202) 879-3939 / Facsimile: (202) 626-1700

FILE WITH PTO RETURN RECEIPT (PAT-103A)

CH \$40.00 503013 11596187

700393084

**PATENT**  
**REEL: 021935 FRAME: 0155**

9-16-08; 10:47AM;

09/16/2008  
700384460

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ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?  YES  NO

## 3. NATURE OF CONVEYANCE/DOCUMENT:

 ASSIGNMENT OF WHOLE or PART INTEREST ORIGINAL FACSIMILE/PHOTOCOPY CHANGE OF NAME VERIFIED TRANSLATION SECURITY MERGER OTHER: Corrected Cover Sheet to correct Assignee address  
for Assignment originally recorded at Reel/Frame 019996/0516

Execution Date(s) on the Conveyance/Document: February 2, 2007; February 9, 2007; February 9, 2007; and February 1, 2007

Execution Date(s) on the Declaration (if filed herewith):

## 4. APPLICATION AND/OR PATENT NUMBER(S):

Additional sheets attached?  YES  NO

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Matter No.

First Inventor

b. Patent Number(s)

Matter No.

First Inventor

11/596,187

011816-  
0060-999

ARNOLD

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DEPOSIT ACCOUNT NO. 503-013

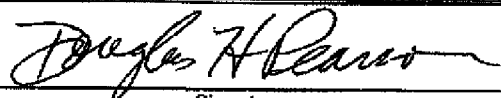
Under Order No.

011816-0060-999

Matter No.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

10. TOTAL NUMBER OF PAGES (including cover sheet, attachments and documents): 9



Signature

Name of Attorney: Douglas H. Pearson

Date: September 16, 2008

Registration No. 47,851

Telephone: (202) 879-3939 / Facsimile: (202) 626-1700

FILE WITH PTO RETURN RECEIPT (PAT-103A)

PATENT  
REEL: 021935 FRAME: 0156

JONES DAY DOCKET NO. 861840-999060

JOINT

## ASSIGNMENT

WHEREAS, WE, RALF ARNOLD, BERND DÖR BAND, FRANK SCHILLKE and SUSANNE BEDER citizens of the Federal Republic of Germany, residing at Härtsfeldstrasse 9/1, 73432, Aalen, Federal Republic of Germany; Sauerbachstrasse 103, 73434, Aalen, Federal Republic of Germany; Schurenfeldstrasse 6, 73434, Aalen, Federal Republic of Germany; and Brandenburger Strasse 59, 73431, Aalen, Federal Republic of Germany, are the inventors of the invention in METHOD OF MANUFACTURING AN OPTICAL ELEMENT for which we have executed an application for a Patent of the United States

which is executed on  even date herewith or

which was filed on November 13, 2006, Application No. 11/596,187

and WHEREAS, CARL ZEISS SMT AG, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

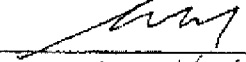
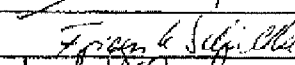
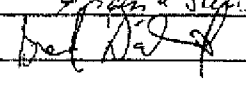
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date	<u>07. 02. 2007</u>	, 2007		Ralf Arnold
Date	<u>Feb. 09. 2007</u>	, 2007		Bernd Dörband
Date	<u>26. 03. 2007</u>	, 2007		Frank Schillke
Date	_____	, 2007	_____	Susanne Beder

JONES DAY DOCKET NO. 861840-999060

JOINT

## ASSIGNMENT

WHEREAS, WE, RALF ARNOLD, BERND DÖRBAND, FRANK SCHILLKE and SUSANNE BEDER citizens of the Federal Republic of Germany, residing at Härtsfeldstrasse 9/1, 73432, Aalen, Federal Republic of Germany; Sauerbachstrasse 103, 73434, Aalen, Federal Republic of Germany; Scheurenfeldstrasse 6, 73434, Aalen, Federal Republic of Germany; and Brandenburger Strasse 59, 73431, Aalen, Federal Republic of Germany, are the inventors of the invention in METHOD OF MANUFACTURING AN OPTICAL ELEMENT for which we have executed an application for a Patent of the United States

- which is executed on  even date herewith or   
 which was filed on November 13, 2006, Application No. 11/596,187

and WHEREAS, CARL ZEISS SMT AG, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date	_____ , 2007	_____	Ralf Arnold
Date	_____ , 2007	_____	Bernd Dörband
Date	_____ , 2007	_____	Frank Schillke
Date	<u>Feb. 1</u> , 2007	<u>Susanne Beder</u>	Susanne Beder