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MAIL STOP ASSIGNMENT RE...
DIRECTOR OF THE US PATENT AND TRADEMARK OFFICE
P.O. Box 1450
Alexandria, VA 22313-1450

7.23 04

Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):
WOLFGANG SINGER, JOACHIM HAINZ, HANS-JOACHIM FRASCH, JOHANNES WANGLER, JOACHIM WIETZORREK, AND JÖRG SCHULTZ

2. Name and address of receiving party(ies):
**CARL ZEISS SMT AG
CARL ZEISS STRASSE 22,
73447 OBERKOCHEN, GERMANY**

3. Nature of conveyance:
XXXX Assignment _____ Merger
_____ Security Agreement _____ Change of Name
_____ Other: _____
Execution Date: May 18, 2004, May 26, 2004, May 17, 2004, May 17, 2004,
June 2, 2004, and May 24, 2004, respectively

4. Application number(s) or application date(s):
If this document is being filed together with a new application, the execution date of the application is:
A. Application/Patent No. B. Application/Issue Date
10/827,916 April 20, 2004

5. Name and address of party to whom correspondence concerning this document should be mailed:
Charles N. J. Ruggiero, Esq.
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682 U.S.A.

6. Total No. of applications and patents involved: 1.

7. Total Fee (37 C.F.R. 3.41(h)) \$40.00/assignment.
XXXXX CUSTOMER NO.: 27623
XXXXX Enclosed
_____ Authorized to be charged to deposit account.

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to Deposit Account No. 01-0467. A duplicate copy of this Form is enclosed.

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.

Charles N. J. Ruggiero
Name of Person Signing

Charles N. J. Ruggiero 7/21/04
Signature Date

Total number of pages including cover sheet, attachments and document: 3.

07/26/2004 MHMED1 00000077 10827916 40.00 DP 04 FC:8021

ASSIGNMENT

FOR valuable and legally sufficient considerations, receipt of which is hereby acknowledged, I, **Wolfgang Singer**, a citizen of Germany, and a resident of Egerlandstrasse 45, 73431 Aalen, Germany; **Joachim Hainz**, a citizen of Germany, and a resident of Zeppelinstraße 49, 73430 Aalen, Germany; **Hans-Joachim Frasch**, a citizen of Germany, and a resident of Baltenstraße 3/1, 73431 Aalen, Germany; **Johannes Wangler**, a citizen of Germany, and a resident of An der Reute 15, 89551 Königsbronn, Germany; **Joachim Wietzorrek**, a citizen of Germany, and a resident of Silcherstraße 61, 73430 Aalen, Germany; and **Jörg Schultz**, a citizen of Germany, and a resident of Bohlstrasse 29, 73430 Aalen, Germany; having co-invented certain new and useful improvements in

**ILLUMINATION SYSTEM WITH FIELD MIRRORS FOR PRODUCING
UNIFORM SCANNING ENERGY**

hereby assign to **Carl Zeiss SMT AG**, a German corporation having its principal office at **Carl-Zeiss-Strasse 22, 73447 Oberkochen, Germany**, (hereinafter referred to as "Assignee"), the entire right, title and interest in and to such invention, together with the patent rights and rights of protection to the same throughout the world, including any patent rights which may result from the application for United States Letters Patent which was filed in the United States Patent and Trademark Office on **April 20, 2004**, and assigned **U.S. Application Serial No. 10/827,916**, and any continuation, divisions, continuation-in-part applications, inventor's certificates and extensions thereof, preparatory to obtaining Letters Patent of the United States therefor; said invention, application and Letters Patent to be held and enjoyed by said Assignee for its own use and behoof and for the use and behoof of its successors and assigns, to the full end of the term for which said Letters Patent or other rights of protection may be granted as entirely as the same would have been held and enjoyed by us had the assignment not been made.

AND WE COVENANT and AGREE and WARRANT that we have full and unencumbered title to the invention hereby assigned, and we further covenant and

agree that we have the right to grant such rights to said invention and application and Letters Patent and that we will, at any time upon request without cost to us or further compensation, execute and deliver any and all papers or instruments that, in the opinion of said Assignee, may be necessary or desirable to secure in said Assignee the full enjoyment of the rights and properties herein conveyed or intended to be conveyed by this instrument. IN WITNESS WHEREFORE, we have hereunto set our hands and seal:

Date: 18 May 2004, 2004 W. Singer
By: Wolfgang Singer

E. Angstenberger 18 May 2004 E. Angstenberger
Witness Signature and Date Witness Printed Name

Carl Zeiss Oberkochen
Witness Address

Date: May 26, 2004 Joachim Hainz
By: Joachim Hainz

Jrmgard Bach May 26, 2004 Jrmgard Bach
Witness Signature and Date Witness Printed Name

Carl Zeiss Oberkochen
Witness Address

Date: May 17, 2004 Hans-Joachim Frasch
By: Hans-Joachim Frasch

Carmen Hedmick May 17, 2004 Carmen Hedmick
Witness Signature and Date Witness Printed Name

Carl Zeiss Oberkochen
Witness Address

Date: May 17, 2004, 2004 [Signature]
By: Johannes Wangler

[Signature] May 17, 2004 Carmen Helmle
Witness Signature and Date Witness Printed Name

Carl Zeiss, Oberkochen
Witness Address

Date: June 2, 2004 [Signature]
By: Joachim Wietzorrek

Witness Signature and Date Witness Printed Name

Witness Address

Date: May 24, 2004, 2004 [Signature]
By: Jörg Schultz

Witness Signature and Date Witness Printed Name

Witness Address