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TO THE COMMISSIONER OF T
Sir:

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

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

a. Wilhelm ULRICH
c. Rudolf TANNERT
e.
g.b. Bernd DOERBAND
d.
f.
h.ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTIES [ASSIGNEE(S)] RECEIVING INTEREST:

NAME: Carl Zeiss SMT AG

ADDRESS: Carl-Zeiss-Strasse 22, Oberkochen 73447, Federal Republic of Germany

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:

Execution Date(s) on the Conveyance/Document: June 23, 2004, June 23, 2004 and June 22, 2004

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
			7,167,251	011816-0062-999	ULRICH

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

Customer No. 20583

Jones Day
Intellectual Property Group
222 East 41st Street
New York, NY 10017-6702

6. NUMBER OF PROPERTIES INVOLVED:

Appls 0 + Patents 1 = 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. 011816-0062-999
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): 4

Signature

Name of Attorney: Douglas H. Pearson
Registration No. 47,851Date: October 5, 2009
Telephone: (202) 626-1700

FILE WITH PTO RETURN RECEIPT (PAT-103A)

11/230,455
USP 7,167,251

Attorney Docket No. 007413-077

JOINT ASSIGNMENT

THIS ASSIGNMENT, by Wilhelm ULRICH, Bernd DOERBAND and Rudolf TANNERT

residing at Lederackerring 44, Aalen 73434, Federal Republic of Germany; Sauerbachstrasse 103, Aalen 73434, Federal Republic of Germany; and Albatrosweg 6, Aalen 73434, Federal Republic of Germany

(hereinafter referred to as "the Assignors"), witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in the application for Letters Patent of the United States, entitled:

METHOD OF PROCESSING AN OPTICAL SUBSTRATE

- (1) ☐ which is a provisional application
- (a) ☐ bearing Application No. _____, filed on _____;
- (b) ☐ to be filed herewith; or
- (2) ☒ which is a non-provisional application
- (a) ☒ bearing Application No. 10/845,259, filed on May 14, 2004;
- (b) ☐ having an oath or declaration executed on even date herewith prior to filing of application;
- (c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, Carl Zeiss SMT AG,
a corporation duly organized under and pursuant to the laws of Federal Republic of Germany,
and having its principal place of business at Carl-Zeiss-Strasse 22, Oberkochen 73447, Federal Republic of Germany

(hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

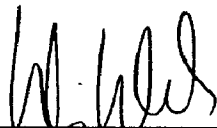
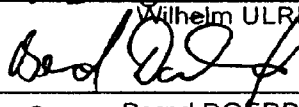
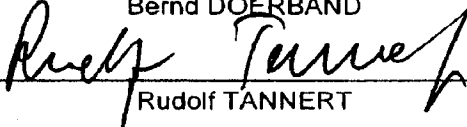
AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Burns, Doane, Swecker & Mathis, L.L.P. to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignors hereby request the Director of the United States Patent and Trademark Office to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

AND the Assignors hereby request the Director of the United States Patent and Trademark Office to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

Date: <u>June 23, 2007</u>	Signature of Assignor	<u></u> Wilhelm ULRICH
Date: <u>June 23, 2004</u>	Signature of Assignor	<u></u> Bernd DOERBAND
Date: <u>June 22, 2004</u>	Signature of Assignor	<u></u> Rudolf TANNERT
Date: _____	Signature of Assignor	_____
Date: _____	Signature of Assignor	_____
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