

12-15-2004

No.: 77623, etc.

U.S. DEPARTMENT OF COMMERCE  
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To the Director of the United States Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):  
CARL-ZEISS-STIFTUNG

Execution Date(s): June 30, 2004

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

2. Name and address of receiving party(ies)

Name: Carl Zeiss SMT AG

Internal Address:

Street Address: Carl-Zeiss-Strasse 22

City: Oberkochen

State:

Country: Germany

Zip: 73447

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

09/588,261; 09/678,715; 09/504,663; 09/587,858;  
09/503,023; 09/722,603; 09/564,444; 09/847,658

B. Patent No.(s)

6,307,688; 6,271,976; 6,392,825; 6,275,344; 6,366,413;  
6,457,866; 6,512,780; 6,294,296; 6,445,416

Additional numbers attached? ☒ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Gerald T. Shekleton

Internal Address: WELSH & KATZ, LTD.

Street Address: 120 South Riverside Plaza

22nd Floor

City: Chicago

State: Illinois

Zip: 60606

Phone Number: (312) 655-1500

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Email Address: gtshekleton@welshkatz.com

6. Total number of applications and patents involved:

19

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 760.00

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers

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23-0920

Authorized User Name

Gerald T. Shekleton

9. Signature:

Gerald T. Shekleton

Signature

December 9, 2004

Date

Gerald T. Shekleton

Name of Person Signing

Total number of pages including cover

5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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PATENT  
REEL: 016059 FRAME: 0726

**RECORDATION FORM COVER SHEET**

Continuation of Item 4:

Patent Nos.:

6,621,048  
10/045,260

## CONFIRMATORY ASSIGNMENT

The Effective Date of this Assignment is ~~October, 1~~..... 2001.

WHEREAS, CARL-ZEISS-STIFTUNG, a foundation organized and existing under the laws of Germany and trading as Carl Zeiss, having its principal office at 89518 Heidenheim (Brenz), Germany (hereinafter "ASSIGNOR"), by virtue of an assignment from the inventors, was the owner of the entire right, title, and interest in and to certain new and useful inventions and improvements which are the subject of 19 PATENTS AND PATENTS APPLICATIONS for United States Patent entitled

- Title: "Optical system" filed 22.11.1999 and assigned U.S. Serial Number 09/444,815;
- Title: "Apparatus for tilting an object about at least one axis, in particular an element" filed 27.01.2000 and assigned U.S. Serial Number 09/490,890;
- Title: "Assembly comprising an optical element and a mount" filed 27.01.2000 and assigned U.S. Serial Number 09/491,666;
- Title: "Device for displacing an optical element along the optical axis" filed 14.02.2000 and assigned U.S. Serial Number 09/504,030;
- Title: "Device for Reducing the Peak Power of a Pulsed Laser Light Source" filed 06.06.2000 and assigned U.S. Serial Number 09/588,261;
- Title: "Optical imaging device, in particular lens system, with at least one system diaphragm" filed 04.10.2000 and assigned U.S. Serial Number 09/678,715;
- Title: "Projection exposure system and an exposure method in microlithography" filed 14.02.2000 and assigned U.S. Serial Number 09/504,663;
- Title: "Assembly comprising an optical element and a mount" filed 06.06.2000 and assigned U.S. Serial Number 09/587,858;
- Title: "Adjustable assembly" filed 14.02.2000 and assigned U.S. Serial Number 09/503,023;
- Title: "Device for the low-deformation support of an optical element and method for the low-deformation support of the optical element" filed 27.11.2000 and assigned U.S. Serial Number 09/722,603;
- Title: "Objective, in particular an objective for a semiconductor lithography projection exposure machine, and a production method" filed 04.05.2000 and assigned U.S. Serial Number 09/564,444;

Title: "Method of straightening the supporting surfaces of supporting elements for optical elements" filed 19.10.2000 and assigned U.S. Serial Number 09/692,256;

Title: "Rotary Bearing" filed 25.09.2000 and assigned U.S. Serial Number 09/669,501;

Title: "System for compensating directional and positional fluctuations in light produced by a laser" filed 21.11.2000 and assigned U.S. Serial Number 09/717,560;

Title: "Method and device for mutually aligning a mask pattern" filed 22.02.2000 and assigned U.S. Serial Number 09/510,875;

Title: "Projection lens, in particular for microlithography" filed 02.05.2001 and assigned U.S. Serial Number 09/847,658;

Title: "Lens system" filed 05.06.2001 and assigned U.S. Serial Number 09/874,929;

Title: "Method for heating a workpiece" filed 04.09.2001 and assigned U.S. Serial Number 09/946,801;

Title: "Method for the interferometric measurement of non-rotationally symmetric wavefront errors" filed 07.11.2001 and assigned U.S. Serial Number 10/045,260.

WHEREAS, Carl Zeiss SMT AG, a corporation organized and existing under the laws of Germany and having its principal office at Carl-Zeiss-Strasse 22, 73447 Oberkochen, Germany, formerly CARL ZEISS SEMICONDUCTOR MANUFACTURING TECHNOLOGIES AG (hereinafter "ASSIGNEE"), was desirous of acquiring the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS, including any and all Letters Patent of the United States that may be obtained therefore, and any and all foreign patents claiming priority to said PATENTS AND PATENT APPLICATIONS;

NOW, THEREFORE, be it known that, pursuant to the terms of a contract entered into between ASSIGNOR and ASSIGNEE and notarized January 15, 2002, for good and valuable consideration recited therein and paid by ASSIGNEE to ASSIGNOR, the receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does hereby confirm that, as of the Effective date, ASSIGNOR did sell, assign and transfer unto ASSIGNEE, its legal representatives, successors and assigns, its entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS, the same interest to be held by ASSIGNEE, its legal representatives, successors and assigns, to the full end of the term for which Letters Patent may be granted or may be reissued or extended, as fully and entirely as the same would have been held by ASSIGNOR had his assignment and sale not been made.

AND, ASSIGNOR hereby confirms its agreement that the change in ownership shall be recorded in the official records of the United States Patent and Trademark Office.

The undersigned is authorized to act on behalf of ASSIGNOR.

CARL-ZEISS-STIFTUNG, trading as Carl Zeiss

Schultz

By: i.V. Schultz

Title: authorized clerk

June 30, 2004

Date

Müller-Rißmann

By: i. V. Dr. Müller-Rißmann

Title: authorized clerk

June 30, 2004

Date

Witness Name: Fleischer

Witness Signature: Fleischer

Witness Name: Motzke

Witness Signature: Motzke