

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignors' names; Document ID NO. 500528448 previously recorded on Reel 020531 Frame 0122. Assignor(s) hereby confirms the Assignment.										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Hans-Juergen Mann</td><td>06/25/2003</td></tr><tr><td>Wilhelm Ulrich</td><td>06/24/2003</td></tr><tr><td>Guenther Seitz</td><td>06/27/2003</td></tr></tbody></table>		Name	Execution Date	Hans-Juergen Mann	06/25/2003	Wilhelm Ulrich	06/24/2003	Guenther Seitz	06/27/2003		
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<table border="1"><tr><td>Name:</td><td>Carl-Zeiss SMT AG</td></tr><tr><td>Street Address:</td><td>Carl-Zeiss-Str. 22</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 AG	Street Address:	Carl-Zeiss-Str. 22	City:	Oberkochen	State/Country:	GERMANY	Postal Code:	73447
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CORRESPONDENCE DATA											
Fax Number: (203)327-6401 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 2033274500											
Email: rolivo@ogrp.com											
Correspondent Name: Ohlandt, Greeley, Ruggiero & Perle, LLP											
Address Line 1: One Landmark Square											
Address Line 2: 10th Floor											
Address Line 4: Stamford, CONNECTICUT 06901											
ATTORNEY DOCKET NUMBER:	637.0028USX1										
NAME OF SUBMITTER:	Charles N. J. Ruggiero										

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PATENT
REEL: 021049 FRAME: 0239

Total Attachments: 7

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PATENT

REEL: 021049 FRAME: 0240

TO:OHLANDT, GREELEY, RUGGIERO & PERLE, L.L. COMPANY:ONE LANDMARK SQUARE

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.102/20/2008
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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
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Total Attachments: 3 source=637.0028USX1#page1.tif									

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TO:OHLANDT, GREELEY, RUGGILL & PERLE, L.L. COMPANY:ONE LANDMARK SQUARE

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ASSIGNMENT

FOR valuable and legally sufficient considerations, receipt of which is hereby acknowledged, I, Hans-Jürgen Mann, a citizen of Germany, and a resident of Katzenbachstrasse 49, 73447 Oberkochen, Germany; Wilhelm Ulrich, a citizen of Germany, and a resident of Lederackerring 44, 73434 Aalen-Dewangen, Germany; and Günther Seitz, a citizen of Germany, and a resident of Im Gässle 34, 71579 Spiegelberg, Germany; having co-invented certain new and useful improvements in

8- MIRROR MICROLITHOGRAPHY PROJECTION OBJECTIVE

hereby assign to Carl-Zeiss SMT AG, a German corporation having its principal office at Carl-Zeiss-Str. 22, 73447 Oberkochen, (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 18, 2003, and assigned U.S. Application Serial No. 10/418,515, 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

TO: OHLANDT, GREELEY, RUGGIERO & PERLE, L.L.C. COMPANY: ONE LANDMARK SQUARE

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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: 25-june, 2003 6.7.2
By: Hans-Jürgen Mann

[Signature]
Witness

Date: 24-june, 2003 Wilhelm Ulrich
By: Wilhelm Ulrich

[Signature]
Witness

Date: 27-june, 2003 [Signature]
By: Günther Seitz

[Signature]
Witness