PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT
NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Alexander EPPLE</td>
<td>09/24/2009</td>
</tr>
<tr>
<td>Vladimir KAMENOV</td>
<td>10/01/2009</td>
</tr>
<tr>
<td>Toralf GRUNER</td>
<td>09/22/2009</td>
</tr>
<tr>
<td>Thomas SCHICKETANZ</td>
<td>09/25/2009</td>
</tr>
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RECEIVING PARTY DATA

<table>
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<tr>
<th>Name</th>
<th>Carl Zeiss SMT AG</th>
</tr>
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<tbody>
<tr>
<td>Street Address</td>
<td>Rudolf-Eber-Strasse 2</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>
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PROPERTY NUMBERS Total: 1

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<th>Property Type</th>
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<tr>
<td>Application Number</td>
<td>12562693</td>
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CORRESPONDENCE DATA

Fax Number: (202)293-7860

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Correspondent Name: Sughrue Mion, PLLC

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ATTORNEY DOCKET NUMBER: Q114835

NAME OF SUBMITTER: George F. Lehnigk

Total Attachments: 1
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Assignment

Whereas, I/We, Alexander EPPLE, Vladimir KAMENOV, Toralf GRUNER, and Thomas SCHICKETANZ of Aalen, GERMANY, Essingen, GERMANY, Aalen-Hofen, GERMANY and Aalen, GERMANY, respectively, hereinafter called assignor(s), have invented certain improvements in

CATADIOPTRIC PROJECTION OBJECTIVE

and executed an application for Letters Patent of the United States of America therefore; and

Whereas, CARL ZEISS SMT AG, a German corporation, having a place of business at Rudolf-Eber-Strasse 2, 73447 Oberkochen, GERMANY (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number 12/562,693 and Confirmation number 4755 , filed September 16, 2004) the application number and filing date of said application when known.

Date: SEP 24, 2009
s/Alexander EPPLE

Date: Oct 1, 2009
s/Vladimir KAMENOV

Date: September 22nd, 2009
s/Toralf GRUNER

Date: September 25, 2004
s/Thomas SCHICKETANZ

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)