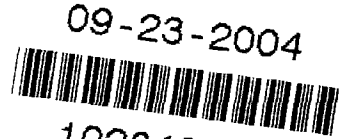
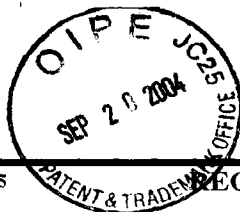


9-20-04



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1. Name of conveying party(ies):
Joachim HEPPNER
Juergen MASSIG
Michael ARNZ
Juergen PENZING
Uwe SCHELLHORN
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
CARL ZEISS SMT AG
Carl-Zeiss-Strasse 22
73447 Oberkochen, GERMANY
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: June 6, 2004, July 6, 2004, July 7, 2004, July 6, 2004, and July 7, 2004

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.(s)
10/217,536

B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE MION, PLLC
WASHINGTON OFFICE
23373
CUSTOMER NUMBER

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41): \$40.00
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PATENT
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Assignment

Whereas, I/We, Joachim HEPPNER, Juergen MASSIG, Michael ARNZ, Michael KUECHEL, Juergen PENZING and Uwe SCHELLHORN of Oberkochen, GERMANY; Essingen, GERMANY; Oberkochen, GERMANY; Oberkochen, GERMANY; Oberkochen, GERMANY; and Aalen, GERMANY, respectively, hereinafter called assignor(s), have invented certain improvements in

MOIRÉ METHOD AND A SYSTEM FOR MEASURING THE DISTORTION OF AN OPTICAL IMAGING SYSTEM

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

Whereas, CARL ZEISS SMT AG, of Carl-Zeiss-Strasse 22, 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 the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner for Patents 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 10/217,536, filed August 14, 2002) the filing date and application number of said application when known.

Date: June 6, 2004 Joachim Heppner
s/Joachim HEPPNER

Date: _____
s/Juergen MASSIG

Date: July 7, 2004 Michael Arnz
s/Michael ARNZ

Date: _____
s/Michael KUECHEL

Date: 7/6/2004 Juergen Penzing
s/Juergen PENZING

Date: July 7th 2004 Uwe Schellhorn
s/Uwe SCHELLHORN

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

Assignment

Whereas, I/We, Joachim HEPPNER, Juergen MASSIG, Michael ARNZ, Michael KUECHEL, Juergen PENZING and Uwe SCHELLHORN of Oberkochen, GERMANY; Essingen, GERMANY; Oberkochen, GERMANY; Oberkochen, GERMANY; Oberkochen, GERMANY; and Aalen, GERMANY, respectively, hereinafter called assignor(s), have invented certain improvements in

MOIRÉ METHOD AND A SYSTEM FOR MEASURING THE DISTORTION OF AN OPTICAL IMAGING SYSTEM

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

Whereas, CARL ZEISS SMT AG, of Carl-Zeiss-Strasse 22, 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 the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner for Patents 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.

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Date:

s/Joachim HEPPNER

Date:

July 6, 2004 Juergen Massig

s/Juergen MASSIG

Date:

s/Michael ARNZ

Date:

s/Michael KUECHEL

Date:

s/Juergen PENZING

Date:

s/Uwe SCHELLHORN

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