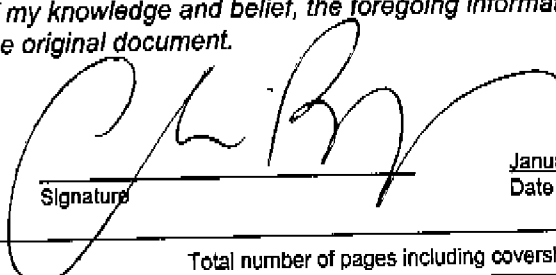


Substitute Form PTO-1595
 Attorney Docket No.: 17979-035001
 Client's Ref. No.: 06048PUS

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1. Name of conveying party(ies): Hans-Juergen Mann, Wilhelm Ulrich and Marco Pretorius Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Carl Zeiss SMT AG Rudolf-Eber-Strasse 2 73447 Oberkochen Germany Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 12/04/06; 12/01/06; 12/20/2006	4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 11/520,558 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name/address of party to whom correspondence concerning document should be mailed: SEAN P. DALEY Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
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PATENT

Attorney Docket No: 17979-035001/06048 P US

ASSIGNMENT

For valuable consideration, we, Hans-Juergen Mann of Katzenbachsrasse 49, 73447 Oberkochen, Germany, Wilhelm Ulrich of Lederackerring 44, 73434 Aalen, Germany, Marco Pretorius of Katzenbachsrasse 60A, 73447 Oberkochen, Germany, hereby assign to CARL ZEISS SMT AG, a corporation of Germany, having a place of business at Rudolf-Eber-Strasse 2, 73447 Oberkochen, Germany; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled CATOPTRIC OBJECTIVES AND SYSTEMS USING CATOPTRIC OBJECTIVES, filed September 13, 2006, and assigned U.S. Serial Number 11/520,558, this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

Attorney Docket No: 17979-035001/06048 P US

DATE: 4-Dec-2006


HANS-JUERGEN MANN

Witnessed by:


Name: LUMPP

Date: Dec, 4th 2006

Name: _____

Date: _____

DATE: 1-Dec-2006


WILHELM ULRICH

Witnessed by:

Name: LUMPP

Date: Dec 1st 2006

Name: _____

Date: _____

Attorney Docket No: 17979-035001/06048 P US

DATE: 2006/12/20

Marco Pretorius
MARCO PRETORIUS

Witnessed by:

Name: _____

Date: _____

Name: _____

Date: _____

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