To the Honorable Commissioner of Patents

1. Name of conveying party(ies):
   - Jörg Schultz 22/09/1999
   - Johannes Wangler 18/09/1999
   - Karl-Heinz Schuster 04/09/1999

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

2. Name and address of receiving party(ies):
   - Name: Carl-Zeiss-Stiftung trading as Carl Zeiss
   - Address: D-89518 Heidenheim (Brenz)

   City: n/a State/Prov.: n/a
   Country: Germany ZIP: n/a

3. Nature of conveyance:
   - Assignment
   - Merger
   - Security Agreement
   - Change of Name
   - Other

   Execution Date: 4 September 1999

4. Application number(s) or registration numbers(s):
   - If this document is being filed together with a new application, the execution date of the application is:

   Patent Application No. 09/125,621 Filing date 03/12/1997

   Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:
   - Name: M. Robert Kestenbaum
   - Registration No.: 20,430
   - Address: 11011 Bermuda Dunes NE

   City: Albuquerque State/Prov.: NM
   Country: USA ZIP: 87111

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): $ 40.00
   - Enclosed - Any excess or insufficiency should be credited or debited to deposit account
   - Authorized to be charged to deposit account

8. Deposit account number:
   - 11-0665

   - To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

   M. Robert Kestenbaum
   Name of Person Signing

   Signature

   August 1999
   Date

   Total number of pages including cover sheet, attachments, and document: 3

   PATENT

   REEL: 010242 FRAME: 0489
ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS, the inventors identified below; (hereinafter referred to as ASSIGNORS), have invented a certain invention entitled: REMA Objective for Microlithography Projection Illumination Devices, for which application for Letters Patent of the United States (1) was executed on ________________, or (2) was filed ________________, and received US Serial number 09/125,621, and

WHEREAS, Carl-Zeiss-Stiftung, having its principal office at D-89518 Hildesheim (Brenz), Germany, (hereinafter referred to as ASSIGNEE) is desirous of acquiring the entire interest in the United States in, to and under said invention, said application and the United States Letters Patent to be obtained therefor,

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, Be it known that in consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar ($1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS hereby sell, assign, and transfer and confirm the sale, assignment and transfer to ASSIGNEE of the full and exclusive right, title and interest in the United States to said invention, said application, and all Letters Patent of the United States to be obtained on said application, and any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, said application, said Letters Patent and legal equivalents thereof, as may be known and accessible to
ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said invention, said application, said Letters Patent and said equivalents thereof, which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, we have hereunto set hand and seal on the date set forth below.

Jörg Schultz

Böhmerwaldstrasse 23, D-73431 Aalen, Germany
1st Inventor's Residence

Joy Schulte

22. Sept. 1998

Date

Johannes Wangler

An der Reute, D-89551 Königsbronn, Germany
2nd Inventor's Residence


Date

Karl-Heinz Schuster

Rechbergstrasse 24, D-89551 Königsbronn-Zang, Germany
3rd Inventor's Residence

Karl-Heinz Schuster

September 4th, 1998

Date