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Patent and Trademark Office  
Docket No.: FRM-04801

102936491

1. Name of conveying party(ies):

Dr. Martin KIENLE; Helmut MÜLLER; Peter HOFFFROGGE;  
Wilhelm BOLSINGER

Additional name(s) of conveying party(ies) attached? Yes \_\_\_ No X

2. Name and address of receiving party(ies)

Name: Carl Zeiss NTS GmbH

Internal Address: \_\_\_\_\_

Street Address: Carl-Zeiss-Strasse 56

73447 Oberkochen, GERMANY

Additional name(s) & address(es) attached? Yes \_\_\_ No (X)

3. Nature of conveyance:

- Assignment                      ( ) Merger
- ( ) Security Agreement            ( ) Change of Name
- ( ) Other:

Execution Date: December 22, 2004; January 20, 2005;  
December 22, 2004; January 20, 2005

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the applications is:

A. Patent Application No.(s) 10/974,000

B. Patent No.(s)

Additional numbers attached? Yes \_\_\_ No X

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent Group  
Internal Address: Choate, Hall & Stewart  
Street Address: Exchange Place, 53 State Street  
City: Boston State: MA ZIP: 02109-2804

6. Total number of applications and patents involved: 1

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7. Total fee (37 CFR 3.41).....\$40.00  
 Enclosed  
\_\_\_ Authorized to be charged to deposit account

8. Deposit account number:

(Attached duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

*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.*

Donald W. Muirhead; 33.978

Name of Person Signing

Signature

February 3, 2005

Date

Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required covered sheet information to:  
Director of the U.S. Patent & Trademark Office, Mail Stop Assignment Recordation Services  
P.O. Box 1450, Alexandria, VA 22313-1450

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**PATENT**  
**REEL: 016230 FRAME: 0324**

ASSIGNMENT

WHEREAS the Undersigned has developed certain inventions described in a patent titled **PARTICLE BEAM DEVICE**, U.S. Application No. 10/974,000, filed on October 26, 2004, and have full right to convey the entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

WHEREAS, Carl Zeiss NTS GmbH, ("Assignee"), having offices at Carl-Zeiss-Strasse 56, 73447 Oberkochen, GERMANY, is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the Undersigned, the Undersigned do hereby sell, assign, transfer and set over unto said Assignee, its successors and assigns, the entire right, title and interest throughout the world in and to said invention or inventions, as described in the aforesaid application, in any form or embodiment thereof, and in and to the aforesaid application; and in and to any application filed in the U.S. or any foreign country based thereon, including the right to file said applications and claim priority under the provisions of any U.S. or international convention or treaty; also the entire right, title and interest throughout the world in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and the Undersigned hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said Assignee or its successors and assigns.

The Undersigned further agree, without any further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

Each of the undersigned hereby authorizes Choate, Hall & Stewart, of 53 State Street, Boston, MA 02109-2804, to insert hereon any further identification information necessary or desirable for recordation of this document.

| <u>Inventors</u>                                    | <u>Date Signed</u>   | <u>Witness</u>   |
|---|----------------------|------------------|
| <u>Martin Kienle</u><br>Name: Dr. Martin KIENLE     | <u>Dec. 22, 2004</u> | <u>A. Jombal</u> |
| <u>Helmut Müller</u><br>Name: Helmut MÜLLER         | <u>Jan. 20, 2005</u> | <u>A. Jombal</u> |
| <u>Peter Hoffrogge</u><br>Name: Peter HOFFROGGE     | <u>Dec. 22, 2004</u> | <u>A. Jombal</u> |
| <u>Wilhelm Bolsinger</u><br>Name: Wilhelm BOLSINGER | <u>Jan. 20, 2005</u> | <u>A. Jombal</u> |

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