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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Fumio HOSOKAWA

Execution Date(s) February 2, 2005

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

2. Name and address of receiving party(ies)

Name: JEOL Ltd.

Internal Address: _____

Street Address: 1-2, Musashino 3-chome, Akishima

Tokyo 196-8558, Japan

City: _____

State: _____

Country: _____

Zip: _____

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

A. Patent Application No.(s)
11/009,962, filed 12/10/2004

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: David C. Hanson
 Internal Address: Webb Ziesenheim Logsdon
Orkin & Hanson, P.C.
 Street Address: 700 Koppers Building
436 Seventh Avenue
 City: Pittsburgh
 State: PA Zip: 15219-1818
 Phone Number: 412-471-8815
 Fax Number: 412-471-4094
 Email Address: webblaw@webblaw.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
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 Authorized User Name _____

9. Signature:

Signature

April 8, 2005
Date

David C. Hanson
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

04/12/2005 ECOOPER 00000117 11009962

01 FC:8021

{W0181008.1}

(40.00 DP)

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to the undersigned, said undersigned, FUMIO HOSOKAWA does hereby sell and assign to JEOL Ltd. of 1-2, Musashino 3-chome, Akishima, Tokyo 196-8558, Japan (hereinafter designated as the Assignee), the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention known as MULTIPOLE FIELD-PRODUCING APPARATUS IN CHARGED-PARTICLE OPTICAL SYSTEM AND ABERRATION CORRECTOR described and claimed in U.S. Patent Application No. 11/009,962, filed December 10, 2004.

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for the protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorizes and requests the Commissioner for Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said application of any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants David C. Hanson (Registration No. 23,024); Richard L. Byrne (Registration No. 28,498) and Randall L. Notzen (Registration No. 36,882), whose address is 700 Koppers Building, 436 Seventh Avenue, Pittsburgh, Pennsylvania 15219-1818 (Telephone No. 412-471-8815) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

{W0164505.1}

In witness whereof, executed by the undersigned on the date opposite the undersigned's name.

Date February 2, 2005

Inventor Fumio Hosokawa
Fumio HOSOKAWA

{W0164505.1}

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RECORDED: 04/11/2005

PATENT
REEL: 016443 FRAME: 0908