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U.S. Department of Commerce Patent And Trademark

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies):

David A Crewe Date 6-9-20000 10-2-00

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

3. Nature of conveyance:

X Assignment Merger Security Agreement Change of Name Other

Execution Date: SEE ABOVE

2. Name and address of receiving party(ies):

Name: Applied Materials, Inc.

Internal Address: P.O. Box 450-A

Street Address:

City: Santa Clara State: CA Zip: 95052

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

4. Application number(s) or registration 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) Filed 04MY2000 Serial; 09/565,585

B. Patent No.(s)

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

Name: Patent Counsel

Internal Address: APPLIED MATERIALS, INC.

Street Address: P.O. Box 450-A

City: Santa Clara State: CA Zip: 95052

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$ 40.00

Enclosed

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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.

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For U.S. Clients

Assignment

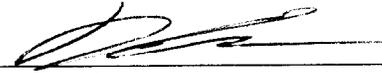
Whereas, I, David A. Crewe of Long Grove, Illinois (assignor), have invented certain improvements in METHOD AND APPARATUS FOR IMAGING A SPECIMEN USING LOW PROFILE ELECTRON DETECTOR FOR CHARGED PARTICLE BEAM IMAGING APPARATUS INCLUDING ELECTROSTATIC MIRRORS, and executed an application for Letters Patent of the United States of America therefor on _____; and

Whereas, Applied Materials, Inc., 3050 Bowers Avenue, Santa Clara, California 95054 (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, the above named assignor, 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 and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I hereby agree that the assignee may apply for foreign Letters Patent on the invention and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

I hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC of 1010 El Camino Real, Menlo Park, CA 94025 to insert here in parentheses (Application number _____, filed _____) the filing date and application number of said application when known.

Date: 6/9/00 s/  _____
David A. Crewe

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