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To the honorable Commissioner of Patents \_\_\_\_\_ original documents or copy thereof.

1. Name of conveying party(ies):  
ORBOT INSTRUMENTS, LIMITED <sup>NRD</sup> 5-30-00  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
APPLIED MATERIALS, INC.  
P.O. Box 450A  
Santa Clara, California 95052  
Additional name(s) attached?  Yes  No  
COMMERCIAL MAIL PERMIT NO. 1113 SANTA CLARA, CA 95050

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

Execution Date: 12 MAY 2000

4. Application number(s) or patent 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)  
**09/162,103**  
Additional numbers attached?  Yes  No  
B. Patent No.(s)

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

Applied Materials, Inc.  
Attn: Patent Group  
2881 Scott Blvd., M/S 2061  
Santa Clara, CA 95050

6. Total number of application and patents involved: 1  
7. Total Fee (37 CFR 3.41).....\$40.00  
 Enclosed  
 Authorized to be charged to deposit account

07/03/2000 DNGUYEN 00000032 501074 09162103  
01 FC 581 40.00 CH

8. Deposit account number: 50-1074  
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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.

Reg. No.: 44,417 Name of Person Signing: Peter J. Yim

Signature:  Date: May 25, 2000

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

CERTIFICATE OF MAILING PURSUANT TO 37 C.F.R. § 1.8

Date of Deposit: May 26, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope pursuant to 37 CFR 1.8 on the date indicated above and is addressed to the Honorable Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231.

Date: May 26, 2000 By:   
Vladimir Skliba

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**PATENT**  
**REEL: 010885 FRAME: 0756**

# PATENT ASSIGNMENT

WHEREAS, **ORBOT INSTRUMENTS, LIMITED**, having offices in Yavne, Israel, (hereinafter referred to as "Assignor") owns rights and interest in U.S. Patent Serial Number 09/162,103, filed on 28 SEP 1998, entitled CHARGED PARTICLE BEAM MICROSCOPE WITH MINICOLUMN (hereinafter referred to as "Patent Application"); and

WHEREAS, **APPLIED MATERIALS, INCORPORATED**, having offices in California, United States of America (hereinafter referred to as "Assignee"), desires to acquire Assignor's entire rights and interests in and to the Patent Application, and in and to the inventions disclosed in said Patent Application, and to the Future Patents (as hereinafter defined) as successor to the business of Assignor, which business is ongoing and existing.

NOW THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, Assignor's full rights and interests in and to said Patent Application, and to all future patents which may be granted therefor throughout the world, and all division, reissues, substitutions, continuations, continuations-in-part and extensions thereof (collectively, "Future Patents"), together with all claims, causes of action and damages for past infringement, if any, of said Patent Application and Future Patents; and Assignor hereby authorizes and requests the United States Patent and Trademark Office and other patent offices throughout the world to issue all Future Patents resulting therefrom insofar as Assignor's interest is concerned, to the said Assignee of Assignor's entire right, title and interest.

Assignor also hereby sells and assigns to Assignee, its successors, assigns and legal representatives Assignor's full rights and interests to inventions disclosed in said Patent Application and Future Patents throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions in Assignee's own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said inventions in appropriate registries; and Assignor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith reasonably necessary to perfect such right, title and interest in Assignee, its successors, assigns and legal representatives.

Assignor hereby further agrees that Assignor will communicate to said Assignee, or to its successors, assigns and legal representatives, any facts known to Assignor respecting any improvements, and, at the expense of said Assignee, will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and general do everything possible to vest title in said Assignee and to aid said Assignee, its successors, assigns and legal representatives in obtaining and enforcing proper protection for said Patent Application and Future Patents in such countries as Assignee may elect.

IN WITNESS WHEREOF, Assignor has caused this instrument to be executed effective May 12, 2000.

**ORBOT INSTRUMENTS, LIMITED**

By:   
Name and Title: Joseph J. Sweeney, President