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

1. Name of conveying party(ies): Peter Michael BANKS

1-6-03

Additional names(s) of conveying party(ies) [] Yes [x] No

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

Name: Applied Materials, Inc.

Internal Address:

Street Address: 3050 Bowers Avenue

City: Santa Clara

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State: CA ZIP: 95054

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

3. Nature of conveyance:

- [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other

Execution Date: January 14, 2002

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

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

A. Patent Application No.(s)

10/307,499

B. Patent No.(s)

Additional numbers attached? [] Yes [x] No

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

Name: Richard H. Tushin

Internal Address: DYKEMA GOSSETT PLLC

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01 FC:8021 40.00 CH

Street Address: 1300 I Street, N.W., Suite 300 West

City: Washington State: DC ZIP: 20005

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 [x] Authorized to be charged to 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.

Richard H. Tushin, Reg.#27,297

Signature

January 6, 2002

Name of Person Signing

Signature

3

Date

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

ASSIGNMENT

WHEREAS, I, **PETER MICHAEL BANKS**

of **7 Pollards Drive, Horsham, West Sussex, RH13 5HQ, United Kingdom.**

have invented certain new and useful improvements as described in an application entitled **IMPROVEMENTS IN ION SOURCES FOR ION IMPLANTATION APPARATUS**

which is the subject of a **United Kingdom** patent application No. **0128913.1** filed **3rd December 2001**; and U.S. Patent Application No. 10/307,499, filed 2 December 2002;

WHEREAS, **Applied Materials, Inc.**

a corporation organized and existing under the laws of **Delaware** and having offices at **3050 Bowers Avenue, Santa Clara, California 95054-3299, United States of America**

("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, and any and all Letters Patent or similar legal protection, in the United States or any other country, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, corresponding applications in the United States or any other country, all Letters Patents or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and I authorize the Commissioner of Patents and Trademarks of the United States or

foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all countries, where appropriate.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

P.M. Parks

(Signature of Inventor)

Date: 14 JAN 2002

Witness:

Signature: D. Beacher

Name: D. BEACHER

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NEWHAVEN

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