

04-02-2003



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Docket No.: 006251 USA/IMPLANT/
CONDUCTIVE/LE

HEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks, please forward the attached original documents or copy thereof.

1. Name of conveying party(ies):
Richard David GOLDBERG

3.24.03

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

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

Name: Applied Materials, Inc.

Internal Address:

Street Address: 3050 Bowers Avenue

City: Santa Clara State: CA ZIP: 950454

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: January 6, 2003

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: January 6, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Richard H. Tushin

Internal Address: DYKEMA GOSSETT PLLC

04/01/2003 6TON11 00000127 042223 10394665

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
☒ Authorized to be charged to deposit account

8. Deposit account number:

04-2223

(Attach 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.

Richard H. Tushin, Reg.# 27,297

Name of Person Signing

Signature

March 24, 2003

Date

Total number of pages including cover sheet, attachments, and document: 3

ASSIGNMENT

WHEREAS, I, **RICHARD DAVID GOLDBERG**

of **Flat 4, 2 Selborne Road, Hove, East Sussex, BN3 3AG, United Kingdom**

have invented certain new and useful improvements as described in an application
entitled **MONATOMIC BORON ION SOURCE AND METHOD**

for Letters Patent of the United States, the application having been executed on
even date herewith and/or being identifiable in the United States Patent and
Trademark Office by Serial No. _____ filed _____ ; and

WHEREAS, **APPLIED MATERIALS, INC.**

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

("Assignee") is desirous of acquiring the entire right, title and interest in and to the
invention, the application, and any and all Letters Patent or similar legal protection,
foreign or domestic, 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, the above-identified
application, corresponding domestic and foreign applications, 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 of similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date and serial number of the application when ascertained.

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 foreign countries.

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.

X R. Cully.
(Richard David Goldberg)

Date:

6/1/03.

Witness:
Signature

X Neil Clarke

Name:

NEIL CLARKE

Address:

8 Southdown place
Brighton
E. Sussex.

Witness:
Signature

X Matthew Dobson.

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