

02-22-2001



FORM PTO-1595 (Modified)

2184/IMPLANT/AIT/SWIFT U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner

101619041

the attached original documents or copy thereof

1. Name of conveying party(ies):

2-15-01

EXECUTION DATE

Jonathan G. ENGLAND..... 9/8/99
Andrew HOLMES..... 9/8/99
David ARMOUR..... 9/8/99
Jaap Van Den Berg..... 7/9/99
Stephen MOFFATT..... 9/8/99

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

Name: Applied Materials, Inc.

Internal Address: Legal Affairs Department

Street Address: P.O. Box 450-A

City: Santa Clara State: CA Zip: 95052

Additional Name(s) & address(es) attached? Yes x No

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

3. Nature of conveyance:

x Assignment Merger
Security Agreement Change of Name
Other

Execution Date: SEE ABOVE

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)

Serial No. 09/700,206 - Filing Date: 05/12/99

Additional Numbers attached? Yes x No

B. Patent No.(s)

FEB 15 2001

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

Name: PATENT COUNSEL

Internal Address: Applied Materials, Inc.

Legal Affairs Dept.

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 CFR 3.41)..... \$40.00

Enclosed

x Authorized to be charged to deposit account

8. Deposit account number:

50-1074

(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 any attached copy is a true copy of the original document.

Robert W. Mulcahy, Reg. No. 25,436

Name of Person Signing

Signature

Date

2/03/01

10. Total number of pages comprising cover sheet, attachments, and document: 11

OMB No. 0651-0011 (exp. 4/94)

Mail documents to be recorded with the required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

FORMS\ASN-COV.LTR

02/22/2001 AAHMED1 00000122 501074 09700206 01 FC:581 40.00 CH

1/94

PATENT REEL: 011521 FRAME: 0861

**ASSIGNMENT**

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WHEREAS, I, **JONATHAN GERALD ENGLAND**

of **17 Hillside, Horsham, West Sussex, RH12 1NE, United Kingdom**

have invented certain new and useful improvements as described in an application entitled **ION BEAM APPARATUS AND A METHOD FOR NEUTRALISING SPACE CHARGE IN AN ION BEAM**

which is the subject of **PCT** patent application No. **PCT/GB99/01500** filed **12 MAY 1999**, and claiming priority from **United Kingdom Patent Application No. 9810144.7**, filed on **12 MAY 1998**; and

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.

x J. England  
(Signature of Inventor)

Date: x 8<sup>th</sup> September 1999

Witness:

Signature J. England

Name: CLAIR ENGLAND

Address: 17, HILLSIDE  
HORSHAM,  
W. SUSSEX, RH12 1NE

Witness:

Signature [Signature]

Name: SUSAN EMMY

Address: 23 HILLSIDE  
HORSHAM,  
W. SUSSEX RH12 1NE

**ASSIGNMENT**

---

WHEREAS, I, **ANDREW HOLMES**

of **16 The Farthings, Marcham, Oxfordshire, OX13 6QD, United Kingdom**

have invented certain new and useful improvements as described in an application entitled **ION BEAM APPARATUS AND A METHOD FOR NEUTRALISING SPACE CHARGE IN AN ION BEAM**

which is the subject of PCT patent application No. **PCT/GB99/01500** filed **12 MAY 1999**, and claiming priority from **United Kingdom Patent Application No. 9810144.7**, filed on **12 MAY 1998**; and

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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;

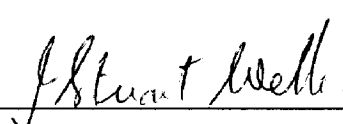
and I authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.


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(Signature of Inventor)

Date: 8<sup>th</sup> Sept 99

Witness:  
Signature:   
Name: Dr J S WEBB  
Address: 5B Tamarisk Av  
READING UK  
RG2 8JB

Witness:  
Signature:   
Name: J. CAIN  
Address: 22 Empress Av.  
Farnborough UK  
GU14 8LX

**ASSIGNMENT**

---

WHEREAS, I, **DAVID ARMOUR**

of **20 Lullington Road, Salford, Manchester, M6 8QP, United Kingdom**

have invented certain new and useful improvements as described in an application entitled **ION BEAM APPARATUS AND A METHOD FOR NEUTRALISING SPACE CHARGE IN AN ION BEAM**

which is the subject of PCT patent application No. **PCT/GB99/01500** filed **12 MAY 1999**, and claiming priority from **United Kingdom Patent Application No. 9810144.7**, filed on **12 MAY 1998**; and

WHEREAS, **Applied Materials, Inc.**

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("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.

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> Dy Armour  
(Signature of Inventor)

Date: > 08 September 1999

Witness:  
Signature: [Signature]  
Name: S E DONNELLY  
Address: 1 BLACKROD DR.  
BURY  
LANCS BL8 2HW

Witness:  
Signature: [Signature]  
Name: G. H WOSTENHOLM  
Address: 19 INGLEBOROUGH VIEW  
WITHELL  
LANCS PR68RW

**ASSIGNMENT**

---

WHEREAS, I, **JAAP VAN DEN BERG**

of **129 Atwood Road, Didsbury, Manchester, M20 6JW, United Kingdom**

have invented certain new and useful improvements as described in an application entitled **ION BEAM APPARATUS AND A METHOD FOR NEUTRALISING SPACE CHARGE IN AN ION BEAM**

which is the subject of **PCT** patent application No. **PCT/GB99/01500** filed **12 MAY 1999**, and claiming priority from **United Kingdom Patent Application No. 9810144.7**, filed on **12 MAY 1998**; and

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;

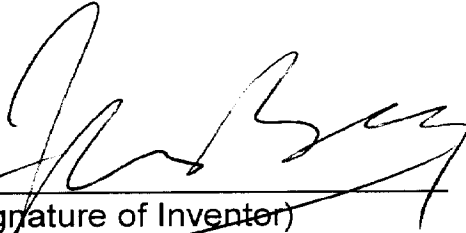
NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, corresponding applications in the United States or any other country, all Letters 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.

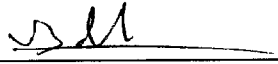
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\_\_\_\_\_  
(Signature of Inventor)

Date: 7/9/99

Witness: MICHAEL BALL

Signature: 


Name: 127 Atwood Rd

Address: Didsbury

MANCHESTER

M20 6JU

Witness: JANET MILLS

Signature: 

Name: 127 Atwood Road

Address: Didsbury

MANCHESTER

M20 6JU

**ASSIGNMENT**

---

WHEREAS, I, **STEPHEN MOFFATT**

of **Applied Implant Technology Limited, Foundry Lane, Horsham, West Sussex, RH13 5PY, United Kingdom**

have invented certain new and useful improvements as described in an application entitled **ION BEAM APPARATUS AND A METHOD FOR NEUTRALISING SPACE CHARGE IN AN ION BEAM**

which is the subject of **PCT** patent application No. **PCT/GB99/01500** filed **12 MAY 1999**, and claiming priority from **United Kingdom Patent Application No. 9810144.7**, filed on **12 MAY 1998**; and

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;

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(Signature of Inventor)

Date: 8 SEPTEMBER 99

Witness:

Signature A.J. Webb

Name: A.J. WEBB

Address: Applied Plastics  
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Witness:

Signature Y.P. Altrina

Name: Y P ALTRINA

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