

MRK 11/14/00

12-01-2000

FORM PTO-1595  
(Modified)



003831/IMPLANT/ORION  
U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents

101534552

ed original documents or copy thereof

1. Name of conveying party(ies):

EXECUTION DATE

Shu SATOH..... 10/23/00  
 Theodore SMICK..... 10/19/00  
 Geoffrey RYDING..... 10/18/00  
 Marvin FARLEY..... 10/20/00  
 Peter ROSE..... 10/18/00

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  No

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

3. Nature of conveyance:

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. 09/413,035 - Filing Date: 10/6/99

Additional Numbers attached?  Yes  No

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.  
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

Authorized to be charged to deposit account

8. Deposit account number:  
50-1074

(Attach duplicate copy of this page if paying by deposit account)

11/30/2000 DNGUYEN 00000239 501074 09413035

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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 11/9/00  
 Name of Person Signing Signature Date

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

## ASSIGNMENT

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WHEREAS, I, **Shu SATOH**

of **11 Larkin Road, Byfield, MA 01922, United States of America**

have invented certain new and useful improvements as described in an application entitled **ION SOURCE ASSEMBLY**

which is the subject of **U.S. Patent Application No. 09/413,035** filed **6th October, 1999**; 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**

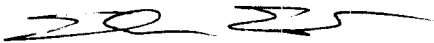
("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, and any and all Letters Patent or similar legal protection, in the United States or any other country, to be obtained therefor;

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

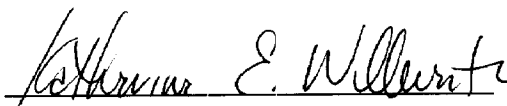
United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

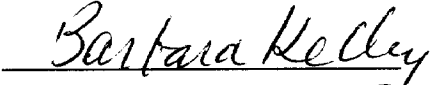
I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all countries, where appropriate.

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.

  
(Signature of Inventor)

Date: 10/23/00

Witness:  
Signature   
Name: KATHERINE E. WILLWARTZ  
Address: 160 HESPERUS AVE.  
MAGWOLIA, MA 01930

Witness:  
Signature   
Name: BARBARA KELLEY  
Address: 41 MAIN ST.  
Byfield, MA 01922

## ASSIGNMENT

---

WHEREAS, I, **Theodore SMICK**

of **31 Lufkin Point Road, Essex, MA 01929, United States of America**

have invented certain new and useful improvements as described in an application entitled **ION SOURCE ASSEMBLY**

which is the subject of **U.S. Patent Application No. 09/413,035** filed **6th October, 1999**; 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**

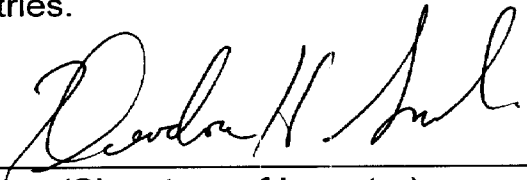
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NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, corresponding applications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

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.

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

Date: 10/19/00

Witness:

Signature Katherine E. Willworth

Name: KATHERINE E. WILLWORTH

Address: 160 HESPERUS AVE

MAGNOLIA, MA 01930

Witness:

Signature B. Kelley

Name: Barbara Kelley

Address: 41 Main St.

Byfield, MA 01922

## ASSIGNMENT

---

WHEREAS, I, **Geoffrey RYDING**

of **30 Masconomo Street, Manchester, MA 01944, United States of America**

have invented certain new and useful improvements as described in an application entitled **ION SOURCE ASSEMBLY**

which is the subject of **U.S. Patent Application No. 09/413,035** filed **6th October, 1999**; 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.

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G. Rydning  
(Signature of Inventor)

Date: 10-18-00

Witness:

Signature Katherine E. Willwerdt

Name: KATHERINE E. WILLWERDT

Address: 160 ASPENUS AVE  
MAGNOLIA, MA 01930

Witness:

Signature B. Kelley

Name: Barbara Kelley

Address: 41 Main St.  
Byfield, MA 01922

## ASSIGNMENT

---

WHEREAS, I, **Marvin FARLEY**

of **16 Mill Road, Ipswich, MA 01938, United States of America**

have invented certain new and useful improvements as described in an application entitled **ION SOURCE ASSEMBLY**

which is the subject of **U.S. Patent Application No. 09/413,035** filed **6th October, 1999**; 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



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Marin Park  
(Signature of Inventor)

Date: 10/20/2000

Witness:

Signature Katherine E. Willwerth  
Name: KATHERINE E. WILLWERTH  
Address: 160 HESPERUS AVE  
MAGNOLIA, MA 01930

Witness:

Signature B. Keelley  
Name: Barbara Keelley  
Address: 41 Main St.  
Byfield, MA 01922

## ASSIGNMENT

---

WHEREAS, I, **Peter ROSE**

of **89 Phillips Avenue, Rockport, MA 01966, United States of America**

have invented certain new and useful improvements as described in an application entitled **ION SOURCE ASSEMBLY**

which is the subject of **U.S. Patent Application No. 09/413,035** filed **6th October, 1999**; 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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*John A. Roe*  
(Signature of Inventor)

Date: 18 October 2000

Witness:

Signature *Katherine E. Willwerth*

Name: KATHERINE E. WILLWERTH

Address: 160 HESPERUS AVE

MAGNOLIA, MA 01930

Witness:

Signature *B. Kelley*

Name: Barbara Kelley

Address: 41 Main St.

Byfield MA 01922