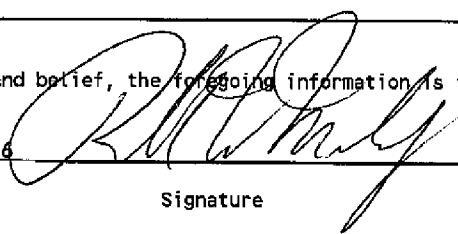


FORM PTO-1595 (Modified)	RECORDATION FORM COVER SHEET PATENTS ONLY	8669/IMPLANT/ORION U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof		
<p>1. Name of conveying party(ies):</p> <p style="text-align: right;"><u>EXECUTION DATE</u></p> <p>Marvin FARLEY..... 6/23/2004 Takao SAKASE..... 6/23/2004</p> <p>Additional name(s) of conveying part(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p>Other _____</p> <p>Execution Date: <u>SEE ABOVE</u></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: <u>Applied Materials, Inc.</u></p> <p>Internal Address: <u>Legal Affairs Department</u></p> <p>Street Address: <u>P.O. Box 450-A</u></p> <p>City: <u>Santa Clara</u> State <u>CA</u> Zip <u>95052</u></p> <p>Additional Name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
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:		
<p>A. Patent Application No.(s)</p> <p>Serial No. <u>10/729,394</u> - Filing Date: <u>4/3/2004</u></p> <p>Additional Numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>B. Patent No.(s)</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>PATENT COUNSEL</u></p> <p>Internal Address: <u>Applied Materials, Inc.</u> <u>Legal Affairs Dept.</u></p> <p>Street Address: <u>P.O. Box 450-A</u></p> <p>City: <u>Santa Clara</u> State: <u>CA</u> ZIP: <u>95052</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41).....<u>\$40.00</u></p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>50-1074</u> (Attach duplicate copy of this page if paying by deposit account)</p>	
DO NOT USE THIS SPACE		
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.		
<p>Robert W. Mulcahy, Reg. No. 25,436</p> <p>Name of Person Signing</p>	 <p>Signature</p>	<p><u>7/8/04</u></p> <p>Date</p>
10. Total number of pages comprising cover sheet, attachments, and document: <u>5</u>		
OMB No. 0651-0011 (exp. 4/94)		

CH \$40.00 501074 10729394

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

Applied Materials' Ref: 008669 USA/IMPLANT/ORION/JB1

ASSIGNMENT

WHEREAS, I, **MARVIN FARLEY**

of **16 MILL ROAD, IPSWICH, MA 01934, United States of America.**

have invented certain new and useful improvements as described in an application entitled **ION IMPLANT DOSE CONTROL**

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. **10/729,394** filed **3rd April, 2004**; 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

Applied Materials' Ref: 008669 USA/IMPLANT/ORION/JB1

- 2 -

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.

✓ *Mari Forley*

Date: *June 23, 2009*

(Signature of Inventor)

Witness: *Katherine E Willwerth*

Witness: *William D. Kerr*

Name: *KATHERINE E WILLWERTH*

Name: *William D. Kerr*

Address: *100 HESPERUS AVE*
GRANBURY, MA 01930

Address: *101 Chebacco Rd*
Hamilton, MA 01915

:203090; NPT; ACO

Applied Materials' Ref: 008669 USA/IMPLANT/ORION/JB1

ASSIGNMENT

WHEREAS, I, TAKAO SAKASE

of 27 GREEN NEEDLE LANE, ROWLEY, MA 01969, United States of America.

have invented certain new and useful improvements as described in an application entitled ION IMPLANT DOSE CONTROL

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. 10/729,394 filed 3rd April, 2004; 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

Applied Materials' Ref: 008669 USA/IMPLANT/ORION/JB1

- 2 -

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.

[Handwritten signature]

Date: June 23, 2004

(Signature of Inventor)

Witness:

Signature

[Handwritten signature: Katherine E. Willwert]

Name:

KATHERINE E. WILLWERT

Address:

160 HESPERUS AVE
GLoucester, MA 01930

Witness:

Signature

[Handwritten signature: William D. Kerr]

Name:

William D. Kerr

Address:

101 Chabacco Rd
Hamilton, MA 01202

203091; NPT; ACO