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FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
P08/REV04

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Richard D. GOLDBERG - executed 9/21/2006
Andrew S. DEVANEY - executed 11/10/2006
Christopher BURGESS - executed 10/18/2006
David G. ARMOUR - executed 1/18/2007
David KIRKWOOD - executed 11/30/2006

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: see Block 1

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: 95054

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

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)

Filing Date

B. Patent No.(s)

11/886,526

Additional numbers attached? ☐ Yes ☒ No

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

Name: RICHARD H. TUSHIN, Reg. 27,297

Internal Address: DYKEMA GOSSETT PLLC

SUITE 300 WEST

Street Address: 1300 I STREET, NW

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)

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

Name of Person Signing

Signature

OCT 12, 2007

Date

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

11

PATENT

700345989

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

REEL: 019960 FRAME: 0368

CH \$40.00 042223 11886526

Applied Materials' Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

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
CATHODE AND COUNTER-CATHODE ARRANGEMENT IN AN ION SOURCE

which is subject to a ^{U.S. Patent Appln. 11/886,526} ~~United Kingdom Patent Application No. 0505866.5~~ ^{filed 22nd March 2005} 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.

Applied Materials' Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

- 2 -

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.


Richard David Goldberg

Date: 21st September 2006

Witness: 

Witness: 

Signature 

Signature 

Name: Erik Colant

Name: MAMON E GIBSON

Address: 27 Fairfield Rd
Ashington
W. Sussex RH20 3DB

Address: 92 FARHALL CRES
HORSHAM
W SUSSEX
RH12 4DY
UK

Applied Materials= Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

ASSIGNMENT

WHEREAS, I, **Andrew S. DEVANEY**

of **39 Six Acres, Slinfold, West Sussex, RH13 0TH, United Kingdom**

have invented certain new and useful improvements as described in an application entitled
CATHODE AND COUNTER-CATHODE ARRANGEMENT IN AN ION SOURCE

which is subject to a **U.S. Patent Application 11/886,526**
~~United Kingdom Patent Application No. 0505856.5 filed 22nd March~~
2005; 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.

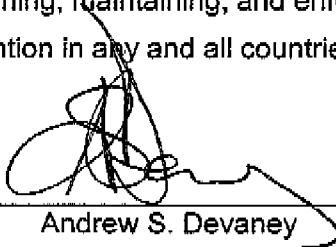
I authorize the Assignee, its successors and assigns, to insert in this instrument the filing
date and serial number of the application when ascertained.

Applied Materials= Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

- 2 -

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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.



Andrew S. DevaneyDate: 10 November 2006Witness: ME GIBSONWitness: M. L. BARTYSignature [Signature]Signature [Signature]

Name: _____

Name: _____

Address: 92 FARNHALLS CRESC
HOVSHAM
W SUSSEX
RH12 4BYAddress: 11 BARTON CRESCENT
EAST GRINSTEAD
WEST SUSSEX
RH19 4NR.

Applied Materials= Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

ASSIGNMENT

WHEREAS, I, **Christopher J.S. BURGESS**

of **84A Old Shoreham Road, Hove, East Sussex, BN3 6HL, United Kingdom.**

have invented certain new and useful improvements as described in an application entitled
CATHODE AND COUNTER-CATHODE ARRANGEMENT IN AN ION SOURCE

U.S. Patent Application 11/886,526

which is subject to a ~~United Kingdom Patent Application No. 0603056 filed 22nd March 2005~~ 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.

Applied Materials= Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

- 2 -

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.


Christopher J.S. BurgessDate: 18th October 2006Witness: Scott Caldwell

Witness: _____

Signature SCOTT CALDWELLSignature Leslie Lane

Name: _____

Name: LESLIE LANEAddress: 1 ST JOHNS ROAD
REDHILL SURREY
RH16 4HF UK.Address: 8 LONGFELLOW CLOSE
HORSHAM
WEST SUSSEX
RH12 5PT
UK.

Applied Materials' Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

ASSIGNMENT

WHEREAS, I, David G. ARMOUR

of 348 Chapeltown Road, Turton, Bolton, BL7 0EJ, United Kingdom

have invented certain new and useful improvements as described in an application entitled
CATHODE AND COUNTER-CATHODE ARRANGEMENT IN AN ION SOURCE

U.S. Patent Application 11/886,526
which is subject to a ~~United Kingdom Patent Application No. 0505856.5 filed 22nd March~~
~~2005~~; 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.

Applied Materials' Ref: 009714 GBR/IMPLANT/CONDUCTIVE/JB1

- 2 -

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.

DG Armour
David G. Armour

Date: 18/01/07

Witness: PAT CORNFORTH

Witness: R. W. KNIGHT

Signature P. Cornforth

Signature R. W. Knight

Name: PAT CORNFORTH

Name: R. W. KNIGHT

Address: 343, BURY RD
EDG WORTH
BOLTON BL70BS

Address: 40 ARTERSTAN CLOSE
BLONBOLTON
WILKIN
LH62 2EX

223985; NPT; ACO

Applied Materials= Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

ASSIGNMENT

WHEREAS, I, David KIRKWOOD

of 73 St. Johns Crescent, Broadbridge Heath, West Sussex, RH12 3NG, United Kingdom

have invented certain new and useful improvements as described in an application entitled
CATHODE AND COUNTER-CATHODE ARRANGEMENT IN AN ION SOURCE

U.S. Patent Application 11/886,526

which is subject to a ~~United Kingdom Patent Application No. 9505256.5 filed 22nd March 2005~~ 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.

Applied Materials= Ref: 009714 GBRI/IMPLANT/CONDUCTIVE/JB1

- 2 -

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.



David Kirkwood

Date: 30/11/06

Witness: M. L. BARTY

Witness: Devendra Patel

Signature 

Signature 

Name: M. L. BARTY

Name: Devendra Patel

Address: 11 BARTON CRESCENT
EAST GRINSTEAD
RM17 4NR

Address: 