

10-30-2002

7152/CPI/COPPER/BG

FORM PTO-100
(Rev. 6-93)
OMB No. 0651-0047U.S. Department of Commerce
Patent and Trademark Office

102265820

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies): 10-21-02
Vincent W. Ku
Ling Chen
Dien-Yeh Wu
Alan H. Ouye
Irena Wysok
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

DATE ASSIGNMENT SIGNED
September 22, 2002
October 7, 2002
September 13, 2002
September 12, 2002
September 30, 2002

3. Nature of conveyance:

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

Execution Date: same as above

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

Name: Applied Materials, Inc.

Internal Address:

Street Address: 3050 Bowers AvenueP.O. Box 450ACity: Santa Clara State: CA Zip: 95054Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is: _____ (Date of Filing)

A. Patent Application No.(s) 10/197,683 filed: 07/17/2002

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Patent CounselInternal Address: APPLIED MATERIALS, INC.Street Address: P.O. Box 450ACity: Santa Clara State: CA Zip: 95052

6. Total number of applications and patents involved:

7. Total fee (37 C.F.R. 3.41)----- \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account50-1074

8. Deposit account number:

50-1074

DO NOT USE THIS SPACE

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.

ROBERT W. MULCAHYName of Person Signing
Registration No. 25,436

Signature

Date

10/15/02Total number of pages including cover sheet, attachments and document: 11

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

10/29/2002 LMUELLER 00000173 501074 10197683

01 FC:8021 40.00 CH

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

- | | |
|--|--|
| 1) Vincent W. Ku
1830 Daltrey Way
San Jose, CA 95132 | 4) Alan H. Ouye
716 North Idaho Street
San Mateo, CA 94401 |
| 2) Ling Chen
784 Dartshire Way
Sunnyvale, CA 94087 | 5) Irena Wysok
3327 Royal Meadow Lane
San Jose, CA 95135 |
| 3) Dien-Yeh Wu
3625 Rowley Drive
San Jose, CA 95132 | |

(hereinafter referred to as Assignors), have invented a certain invention entitled:

METHOD AND APPARATUS FOR GAS TEMPERATURE CONTROL IN A SEMICONDUCTOR PROCESSING SYSTEM

for which application for Letters Patent in the United States was filed on 07/17/2002, under Serial No. 10/197,683; executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable

said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) 8-22, 2002



VINCENT W. KU

2) _____, 2002

LING CHEN

3) _____, 2002

DIEN-YEH WU

4) _____, 2002

ALAN H. OUYE

5) _____, 2002

IRENA WYSOK

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

- | | |
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| 1) Vincent W. Ku
1830 Daltrey Way
San Jose, CA 95132 | 4) Alan H. Ouye
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San Mateo, CA 94401 |
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IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) _____, 2002

VINCENT W. KU

2) 10-7-02, 2002



LING CHEN

3) _____, 2002

DIEN-YEH WU

4) _____, 2002

ALAN H. OUYE

5) _____, 2002

IRENA WYSOK

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1)	_____, 2002	_____ VINCENT W. KU
2)	_____, 2002	_____ LING CHEN
3)	<u>07/13/</u> _____, 2002	 _____ DIEN-YEH WU
4)	_____, 2002	_____ ALAN H. OUYE
5)	_____, 2002	_____ IRENA WYSOK

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

- | | | | |
|----|---|----|---|
| 1) | Vincent W. Ku
1830 Daltrey Way
San Jose, CA 95132 | 4) | Alan H. Ouye
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1) _____, 2002

VINCENT W. KU

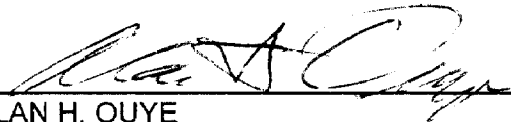
2) _____, 2002

LING CHEN

3) _____, 2002

DIEN-YEH WU

4) 9/12, 2002



ALAN H. OUYE

5) _____, 2002

IRENA WYSOK

ASSIGNMENT FOR APPLICATION FOR PATENT

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3)	_____, 2002	_____ DIEN-YEH WU
4)	_____, 2002	_____ ALAN H. OUYE
5)	<u>09/30</u> , 2002	<u>Irena Wysok</u> IRENA WYSOK