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JEET

U.S. Department of Commerce
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09/820497
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03/28/01

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

1. Name of conveying party(ies):

DATE ASSIGNMENT SIGNED

GEOFFREY RYDING
THEODORE H. SMICK

03262001
03152001

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: SEE 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

09820497

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: 3-28-2001 (Date of Filing)

A. Patent Application No.(s)

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 450-ACity: Santa Clara State: CA Zip: 950526. Total number of applications and patents involved: 17. 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

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. MULCAHY

Name of Person Signing

Signature

Date

3-28-01

Total number of pages including cover sheet, attachments and document: 3

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

PATENT
REEL: 011685 FRAME: 0506

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

- 1) Geoffrey Ryding
30 Masconomo Street
Manchester, MA 01944
- 2) Theodore H. Smick
31 Lufkin Pt. Rd.
Essex, MA 01929
- 3)

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

**COOLING GAS DELIVERY SYSTEM FOR A ROTATABLE SEMICONDUCTOR SUBSTRATE
SUPPORT ASSEMBLY**

for which application for Letters Patent in the United States was 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.

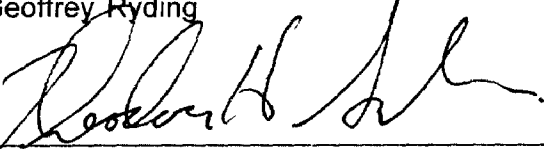
IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) 3-26-01, 2001



Geoffrey Ryding

2) 3/15, 2001



Theodore Smick