08-19-2002

To the Honorable Commissioner of Patents:

1. Name of conveying party(ies):
   Ravi Jallepally
   Shih-Hung Li
   Alain Dubost
   Jun Zhao
   Liang-Yuh Chen
   Daniel A. Carl
   Date: 07/11/02
   07/28/02
   07/13/02
   07/12/02
   07/25/02
   07/13/02

   Additional name(s) of conveying party(ies) attached? __Yes ___No

2. Name and address of receiving party(ies):
   Name: Applied Materials, Inc.
   Internal Address: P.O. Box 450-A
   Street Address:
   City: Santa Clara State: CA Zip: 95052

   Additional name(s) & address(es) attached? __Yes ___No

3. Nature of conveyance: __Assignment ___Merger
   __Security Agreement ___Change of Name
   _Other
   Execution Date: SEE ABOVE

4. Application number(s) or registration number(s):
   10/215058
   If this document is being filed together with a new application, the execution date of the application is: 8-7-02 (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 Counsel
   Internal Address: APPLIED MATERIALS, INC.
   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 C.F.R. 3.41) $ 40.00
   __Enclosed
   X Authorized to be charged to deposit account
   ___50-1074/APPM/5415/TCG/BG
   ___50-1074/APPM/5415/TCG/BG

8. Deposit account number:

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, Reg. No. 25,436
   Name of Person Signing
   Signature
   Date 7/13/02

Total 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

08/16/2002 00000149 501074 10215068
01 FCi581 40.00 DH

PATENT
REEL: 013191 FRAME: 0208
ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

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

APPARATUS AND METHOD FOR FAST-CYCLE ATOMIC LAYER DEPOSITION

for which application for Letters Patent in the United States was filed herewith, under Serial No., to be assigned, 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:

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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) \(1/11/2002\) Ravi Jallepally

2) \(\text{---}/\text{---}/2002\) Shih-Hung Li

3) \(\text{---}/\text{---}/2002\) Alain Duboust

4) \(\text{---}/\text{---}/2002\) Jun Zhao

5) \(\text{---}/\text{---}/2002\) Liang-Yuh Chen

6) \(\text{---}/\text{---}/2002\) Daniel A. Carl
ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

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1) __________, 2002_________________________ Ravi Jallepally
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3) __________, 2002_________________________ Alain Duboust
4) __________, 2002_________________________ Jun Zhao
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3) July 12, 2002
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4) ___________, 2002
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