Form PTO 1595

U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

   EXECUTION DATE
   Lawrence C. LEI
   09/14/01

   Additional name(s) of conveying Part(ies) attached? □Yes ■No

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

   Name: Applied Materials, Inc.
   Internal Address: Legal Affairs Department - M/S 2061
   Street Address: 3050 Bowers Avenue
   City: Santa Clara  State: CA  Zip: 95054

3. Nature of conveyance:
   ■ Assignment □ Merger
   □ Security Agreement □ Change of Name
   □ Other

   Execution Date: See Above

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: Herewith

   A. Patent Application No.(s) Serial No.:

   B. Patent No.(s)

   Additional Numbers attached? □Yes □No

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

   Name: PATENT COUNSEL
   Internal Address: Applied Materials, Inc.
   Legal Affairs Department - M/S 2061
   Street Address: P.O. Box 450A
   City: Santa Clara  State: CA  Zip: 95052

6. Total number of applications and patent involved: 1

7. Total Fee (37 CFR 3.41) $40.00
   □ Enclosed
   ■ Authorized to be charged to deposit account

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   Robert W. Mulcahy, Reg. No. 25,436
   Name of Person Signing
   Signature  09/14/01
   Date

10. Total number of pages comprising cover sheet, attachments, and document: 3

   Mail documents to be recorded with the required cover sheet information to:
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   09/21/2001 AAHMED1 00000091 501074 09953451
   01 FC:581 40.00 CH

PATENT
REEL: 012175 FRAME: 0066
ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Name and Address of Inventor: Lawrence C. LEI
1594 Country Club Drive
Milpitas, California 95035

(hereinafter referred to as Assignor), ha invented a certain invention entitled:

APPARATUS AND METHOD FOR VAPORIZING SOLID PRECURSOR
FOR CVD OR ATOMIC LAYER DEPOSITION

for which application for Letters Patent in the United States was filed 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 the Application), and the
invention disclosed therein (hereinafter referred to as the Invention), and in and to all
embodiments of the Invention, heretofore conceived, made or discovered by said
Assignor, and in and to any and all patents, inventor's certificates and other forms of
protection (hereinafter referred to as the Patents) thereon granted in any and all
countries and groups of countries.

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

1. Said Assignor 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 Assignor hereby covenants and agrees 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 Assignor 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,