

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT																
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT																
<b>CONVEYING PARTY DATA</b>																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Maosheng Zhao</td> <td>01/22/2003</td> </tr> <tr> <td>Juan Carlos Rocha-Alvarez</td> <td>01/22/2003</td> </tr> <tr> <td>Inna Shmurun</td> <td>01/22/2003</td> </tr> <tr> <td>Soovo Sen</td> <td>01/22/2003</td> </tr> <tr> <td>Mao D. Lim</td> <td>01/23/2003</td> </tr> <tr> <td>Shankar Venkataraman</td> <td>01/24/2003</td> </tr> <tr> <td>Ju-Hyung Lee</td> <td>01/23/2003</td> </tr> </tbody> </table>		Name	Execution Date	Maosheng Zhao	01/22/2003	Juan Carlos Rocha-Alvarez	01/22/2003	Inna Shmurun	01/22/2003	Soovo Sen	01/22/2003	Mao D. Lim	01/23/2003	Shankar Venkataraman	01/24/2003	Ju-Hyung Lee	01/23/2003
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<b>RECEIVING PARTY DATA</b>																	
<b>Name:</b>	Applied Materials, Inc.																
<b>Street Address:</b>	P.O. Box 450-A																
<b>City:</b>	Santa Clara																
<b>State/Country:</b>	CALIFORNIA																
<b>Postal Code:</b>	95052																
<b>PROPERTY NUMBERS Total: 1</b>																	
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<b>CORRESPONDENCE DATA</b>																	
<b>Fax Number:</b>	(732)530-9808																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
<b>Phone:</b>	(732) 530-9404																
<b>Email:</b>	adevesty@pattersonsheridan.com																
<b>Correspondent Name:</b>	Keith Taboada, Esq.																
<b>Address Line 1:</b>	595 Shrewsbury Avenue																
<b>Address Line 4:</b>	Shrewsbury, NEW JERSEY 07702																
<b>ATTORNEY DOCKET NUMBER:</b>	007660D01/DSM/LOWK/JW																

OP \$40.00 11424959

NAME OF SUBMITTER:

Keith Taboada, Esq.

Total Attachments: 2

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**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

- |  |   |
|--|---|
| 1) Maosheng Zhao<br>3770 Flora Vista Ave., Apt. 904<br>Santa Clara, CA 95051           | 4) Soovo Sen<br>884 Azure Street<br>Sunnyvale, CA 94087                   |
| 2) Juan Carlos Rocha-Alvarez<br>870 E. El Camino Real, Apt. 522<br>Sunnyvale, CA 94087 | 5) Mao D. Lim<br>3131 Peanut Brittle Drive<br>San Jose, CA 95148          |
| 3) Inna Shmurun<br>695 Beach Park Blvd.<br>Foster City, CA 94404                       | 6) Shankar Venkataraman<br>3444 Notre Dame Drive<br>Santa Clara, CA 95051 |
|  | 7) Ju-Hyung Lee<br>675 Brentwood Drive<br>San Jose, CA 95129              |

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

**METHOD AND APPARATUS FOR CLEANING A CVD CHAMBER**

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) 1/22, 2003 Maosheng Zhao  
Maosheng Zhao
- 2) Jan 22<sup>nd</sup>, 2003 Juan Carlos Rocha-Alvarez  
Juan Carlos Rocha-Alvarez
- 3) 01/22, 2003 Inna Shmurun  
Inna Shmurun
- 4) 01/22, 2003 Soovo Sen  
Soovo Sen
- 5) 01/23, 2003 Mao D. Lim  
Mao D. Lim
- 6) 1/24, 2003 Shankar Venkataraman  
Shankar Venkataraman
- 7) 01/23, 2003 Ju-Hyung Lee  
Ju-Hyung Lee