

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kallol Bera</td><td>04/16/2003</td></tr><tr><td>Yan Ye</td><td>04/13/2003</td></tr><tr><td>James D. Carducci</td><td>04/16/2003</td></tr><tr><td>Daniel J. Hoffman</td><td>04/16/2003</td></tr><tr><td>Steven C. Shannon</td><td>04/16/2003</td></tr><tr><td>Douglas A. Buchberger Jr.</td><td>04/16/2003</td></tr></tbody></table>		Name	Execution Date	Kallol Bera	04/16/2003	Yan Ye	04/13/2003	James D. Carducci	04/16/2003	Daniel J. Hoffman	04/16/2003	Steven C. Shannon	04/16/2003	Douglas A. Buchberger Jr.	04/16/2003
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RECEIVING PARTY DATA															
<table border="1"><tr><td>Name:</td><td>Applied Materials, Inc.</td></tr><tr><td>Street Address:</td><td>3050 Bowers Avenue</td></tr><tr><td>City:</td><td>Santa Clara</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>95052</td></tr></table>		Name:	Applied Materials, Inc.	Street Address:	3050 Bowers Avenue	City:	Santa Clara	State/Country:	CALIFORNIA	Postal Code:	95052				
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CORRESPONDENCE DATA															
Fax Number: (732)530-9808 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone: (732) 530-9404															
Email: adevesty@pattersonsheridan.com															
Correspondent Name: Keith Taboada, Esq.															
Address Line 1: 595 Shrewsbury Avenue															
Address Line 2: Suite 100															
Address Line 4: Shrewsbury, NEW JERSEY 07702															
ATTORNEY DOCKET NUMBER:	APPM/7790 C1														

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PATENT  
REEL: 021483 FRAME: 0254

NAME OF SUBMITTER:

Keith Taboada

Total Attachments: 2

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**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	KALLOL BERA	2)	YAN YE
3)	JAMES D. CARDUCCI	4)	DANIEL J. HOFFMAN
5)	STEVEN C. SHANNON	6)	DOUGLAS A. BUCHBERGER, JR.

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

**METHODOLOGY AND DEVICE TO CONFINE PLASMA  
AND TO REDUCE FLOW RESISTANCE IN A PLASMA REACTOR**

enclosed herewith or for which application for Letters Patent in the United States was  
filed on ,  
under Serial No. , 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)	<u>4-16</u>	, 2003	<u>Kallol Bera</u> KALLOL BERA
2)	<u>4-13</u>	, 2003	<u>[Signature]</u> YAN YE
3)	<u>4/16/</u>	, 2003	<u>[Signature]</u> JAMES D. CARDUCCI
4)	<u>4-16</u>	, 2003	<u>[Signature]</u> DANIEL J. HOFFMAN
5)	<u>4-16</u>	, 2003	<u>[Signature]</u> STEVEN C. SHANNON
6)	<u>4-16</u>	, 2003	<u>[Signature]</u> DOUGLAS A. BUCHBERGER, JR.