

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																				
NATURE OF CONVEYANCE:	ASSIGNMENT																				
CONVEYING PARTY DATA																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Yong Cao</td><td>07/05/2011</td></tr> <tr><td>Xianmin Tang</td><td>06/13/2011</td></tr> <tr><td>Srinivas Gandikota</td><td>07/05/2011</td></tr> <tr><td>Wei D. Wang</td><td>06/15/2011</td></tr> <tr><td>Zhendong Liu</td><td>06/14/2011</td></tr> <tr><td>Kevin Moraes</td><td>07/06/2011</td></tr> <tr><td>Muhammad M. Rasheed</td><td>06/16/2011</td></tr> <tr><td>Thanh X. Nguyen</td><td>06/17/2011</td></tr> <tr><td>Ananthkrishna Jupudi</td><td>07/05/2011</td></tr> </tbody> </table>		Name	Execution Date	Yong Cao	07/05/2011	Xianmin Tang	06/13/2011	Srinivas Gandikota	07/05/2011	Wei D. Wang	06/15/2011	Zhendong Liu	06/14/2011	Kevin Moraes	07/06/2011	Muhammad M. Rasheed	06/16/2011	Thanh X. Nguyen	06/17/2011	Ananthkrishna Jupudi	07/05/2011
Name	Execution Date																				
Yong Cao	07/05/2011																				
Xianmin Tang	06/13/2011																				
Srinivas Gandikota	07/05/2011																				
Wei D. Wang	06/15/2011																				
Zhendong Liu	06/14/2011																				
Kevin Moraes	07/06/2011																				
Muhammad M. Rasheed	06/16/2011																				
Thanh X. Nguyen	06/17/2011																				
Ananthkrishna Jupudi	07/05/2011																				
RECEIVING PARTY DATA																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">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>95054</td></tr> </table>		Name:	APPLIED MATERIALS, INC.	Street Address:	3050 Bowers Avenue	City:	Santa Clara	State/Country:	CALIFORNIA	Postal Code:	95054										
Name:	APPLIED MATERIALS, INC.																				
Street Address:	3050 Bowers Avenue																				
City:	Santa Clara																				
State/Country:	CALIFORNIA																				
Postal Code:	95054																				
PROPERTY NUMBERS Total: 1																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13157164</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13157164																
Property Type	Number																				
Application Number:	13157164																				
CORRESPONDENCE DATA																					
<p>Fax Number: (713)623-4846</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 7136234844</p> <p>Email: nhouston@pattersonsheridan.com</p> <p>Correspondent Name: PATTERSON & SHERIDAN, LLP -- APPM/TX</p> <p>Address Line 1: 3040 POST OAK BOULEVARD, SUITE 1500</p> <p>Address Line 4: HOUSTON, TEXAS 77056</p>																					

OP \$40.00 13157164

501599792

PATENT
REEL: 026616 FRAME: 0182

ATTORNEY DOCKET NUMBER:	APPM/015152/NHOUSTON
NAME OF SUBMITTER:	Keith M. Tackett
Total Attachments: 3 source=015152_Assignment_EF#page1.tif source=015152_Assignment_EF#page2.tif source=015152_Assignment_EF#page3.tif	

ASSIGNMENT FOR APPLICATION FOR PATENT**WHEREAS:**

Names and Addresses of Inventors:

1)	Yong CAO 5406 Duesenberg Drive San Jose, California 95123	2)	Xianmin TANG 4758 Williams Road San Jose, California 95129
3)	Srinivas GANDIKOTA 2727 Monroe Street Santa Clara, California 95051	4)	Wei D. WANG 951 McBride Loop San Jose, California 95125
5)	Zhendong LIU 1607 Mission Springs Circle San Jose, California 95131	6)	Kevin MORAES 5457 Alamo Terrace Fremont, California 94555
7)	Muhammad M. RASHEED 3894 Timberline Drive San Jose, California 95121	8)	Thanh X. NGUYEN 3126 Villa East Hills Court San Jose, California 95127
9)	Ananthkrishna JUPUDI 440 Dixon Landing Road, Apt. C106 Milpitas, California 95035		

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

LOW RESISTIVITY TUNGSTEN PVD WITH ENHANCED IONIZATION AND RF POWER COUPLING

for which application for Letters Patent in the United States was filed on June 9, 2011, under Serial No. 13/157,164, 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 conventional, division, substitution, or continuation of said Application; and (d)


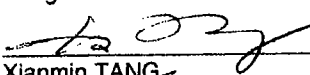
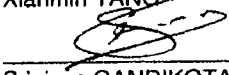

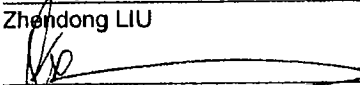
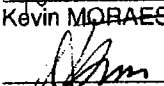
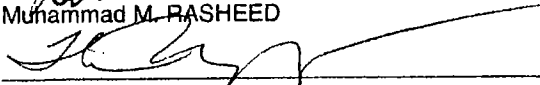
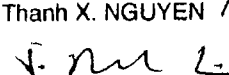
in and to each and every reissue or extension of any of said Patents.

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, conventional, 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 therefore 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>07/05/2011</u> (DATE)	 Yong CAO
2)	<u>6/13/2011</u> (DATE)	 Xianmin TANG
3)	<u>7/05/2011</u> (DATE)	 Srinivas GANDIKOTA
4)	_____ (DATE)	_____ Wei D. WANG
5)	<u>6/14/2011</u> (DATE)	 Zhendong LIU
6)	<u>7/6/2011</u> (DATE)	 Kevin MORAES
7)	<u>06/16/11</u> (DATE)	 Muhammad M. PASHEED
8)	<u>06/17/11</u> (DATE)	 Thanh X. NGUYEN
9)	<u>07/05/11</u> (DATE)	 Ananthkrishna JUPUDI

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, conventional, 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 therefore 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)	_____ (DATE)	_____
		Yong CAO
2)	_____ (DATE)	_____
		Xianmin TANG
3)	_____ (DATE)	_____
		Srinivas GANDIKOTA
4)	<u>6/15/2011</u> (DATE)	<u>Wei D. WANG</u>
		Wei D. WANG
5)	_____ (DATE)	_____
		Zhendong LIU
6)	_____ (DATE)	_____
		Kevin MORAES
7)	_____ (DATE)	_____
		Muhammad M. RASHEED
8)	_____ (DATE)	_____
		Thanh X. NGUYEN
9)	_____ (DATE)	_____
		Ananthkrishna JUPUDI