

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
<b>CONVEYING PARTY DATA</b>																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>DEAN JENNINGS</td> <td>03/23/2005</td> </tr> <tr> <td>HAIFAN LANG</td> <td>03/21/2005</td> </tr> <tr> <td>MARK YAM</td> <td>03/21/2005</td> </tr> <tr> <td>VIJAY PARIHAR</td> <td>03/21/2005</td> </tr> <tr> <td>ABHILASH MAYUR</td> <td>04/11/2005</td> </tr> <tr> <td>AARON HUNTER</td> <td>03/18/2005</td> </tr> <tr> <td>BRUCE ADAMS</td> <td>03/23/2005</td> </tr> <tr> <td>JOSEPH MICHAEL RANISH</td> <td>03/21/2005</td> </tr> </tbody> </table>		Name	Execution Date	DEAN JENNINGS	03/23/2005	HAIFAN LANG	03/21/2005	MARK YAM	03/21/2005	VIJAY PARIHAR	03/21/2005	ABHILASH MAYUR	04/11/2005	AARON HUNTER	03/18/2005	BRUCE ADAMS	03/23/2005	JOSEPH MICHAEL RANISH	03/21/2005
Name	Execution Date																		
DEAN JENNINGS	03/23/2005																		
HAIFAN LANG	03/21/2005																		
MARK YAM	03/21/2005																		
VIJAY PARIHAR	03/21/2005																		
ABHILASH MAYUR	04/11/2005																		
AARON HUNTER	03/18/2005																		
BRUCE ADAMS	03/23/2005																		
JOSEPH MICHAEL RANISH	03/21/2005																		
<b>RECEIVING PARTY DATA</b>																			
Name:	APPLIED MATERIALS, INC.																		
Street Address:	3050 BOWERS AVENUE																		
City:	SANTA CLARA																		
State/Country:	CALIFORNIA																		
Postal Code:	95054																		
<b>PROPERTY NUMBERS Total: 1</b>																			
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13485752</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13485752														
Property Type	Number																		
Application Number:	13485752																		
<b>CORRESPONDENCE DATA</b>																			
Fax Number:	(713)623-4846																		
Phone:	7136234844																		
Email:	DWEDDERBURN@PATTERSONSHERIDAN.COM, PSDOCKETING@PATTERSONSHERIDAN.COM																		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																			
Correspondent Name:	PATTERSON & SHERIDAN, L.L.P.																		
Address Line 1:	3040 POST OAK BLVD.																		
Address Line 2:	SUITE 1500																		

OP \$40.00 13485752

Address Line 4: HOUSTON, TEXAS 77056

ATTORNEY DOCKET NUMBER:

APPM/009193USC05

NAME OF SUBMITTER:

KEITH M. TACKETT

**Total Attachments: 8**

source=009193 US C04 2012-06-01#page1.tif  
source=009193 US C04 2012-06-01#page2.tif  
source=009193 US C04 2012-06-01#page3.tif  
source=009193 US C04 2012-06-01#page4.tif  
source=009193 US C04 2012-06-01#page5.tif  
source=009193 US C04 2012-06-01#page6.tif  
source=009193 US C04 2012-06-01#page7.tif  
source=009193 US C04 2012-06-01#page8.tif

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Dean JENNINGS 6 Thoreau Circle Beverly, Massachusetts 01915 United States of America	2)	Haifan LIANG 4523 Sora Terrace Fremont, California 94555 United States of America
3)	Mark YAM 17608 Vineland Avenue Monte Sereno, California 95030 United States of America	4)	Vijay PARIHAR 2253 Kalenda Common Fremont, California 94539 United States of America
5)	Abhilash MAYUR 17651 Olson Place Salinas, California 93907 United States of America	6)	Aaron HUNTER 3411 S. W. 13 <sup>th</sup> Avenue Portland, Oregon 97239 United States of America
7)	Bruce ADAMS 3411 S. W. 13 <sup>th</sup> Avenue Portland, Oregon 97239 United States of America	8)	Joseph Michael RANISH 3751 Woodleaf Court San Jose, California 95117 United States of America

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

**Dual Wavelength Thermal Flux Laser Anneal**

for which application for Letters Patent in the United States was filed on {Filing Date},

under Serial No. {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 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 Assignors, 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 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.

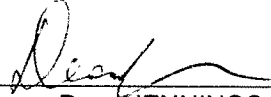
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt

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) 23 March, 2005   
Dean JENNINGS
- 2) \_\_\_\_\_, 2005 \_\_\_\_\_  
Haifan LIANG
- 3) \_\_\_\_\_, 2005 \_\_\_\_\_  
Mark YAM
- 4) \_\_\_\_\_, 2005 \_\_\_\_\_  
Vijay PARIHAR
- 5) \_\_\_\_\_, 2005 \_\_\_\_\_  
Abhilash MAYUR
- 6) \_\_\_\_\_, 2005 \_\_\_\_\_  
Aaron HUNTER
- 7) \_\_\_\_\_, 2005 \_\_\_\_\_  
Bruce ADAMS
- 8) \_\_\_\_\_, 2005 \_\_\_\_\_  
Joseph Michael RANISH

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Dean JENNINGS 6 Thoreau Circle Beverly, Massachusetts 01915 United States of America	2)	Haifan LIANG 4523 Sora Terrace Fremont, California 94555 United States of America
3)	Mark YAM 17608 Vineland Avenue Monte Sereno, California 95030 United States of America	4)	Vijay PARIHAR <del>2253 Kalenda Common</del> 41521 JOYCE Ave Fremont, California 94539 United States of America
5)	Abhilash MAYUR 17651 Olson Place Salinas, California 93907 United States of America	6)	Aaron HUNTER 3411 S. W. 13 <sup>th</sup> Avenue Portland, Oregon 97239 United States of America
7)	Bruce ADAMS 3411 S. W. 13 <sup>th</sup> Avenue Portland, Oregon 97239 United States of America	8)	Joseph Michael RANISH 3751 Woodleaf Court San Jose, California 95117 United States of America

*Vijay*

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

**Dual Wavelength Thermal Flux Laser Anneal**

for which application for Letters Patent in the United States was filed on {Filing Date},

under Serial No. {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 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 Assignors, 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 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) \_\_\_\_\_, 2005 \_\_\_\_\_  
Dean JENNINGS
- 2) 3/21, 2005 \_\_\_\_\_  
*Haifan Liang*  
Haifan LIANG
- 3) \_\_\_\_\_, 2005 \_\_\_\_\_  
Mark YAM
- 4) 3/21, 2005 \_\_\_\_\_  
*Vijay Parihar*  
Vijay PARIHAR
- 5) 4/11/05, 2005 \_\_\_\_\_  
*Abhilash Mayur*  
Abhilash MAYUR
- 6) March 18, 2005 \_\_\_\_\_  
*Aaron Hunter*  
Aaron HUNTER
- 7) \_\_\_\_\_, 2005 \_\_\_\_\_  
Bruce ADAMS
- 8) March 21, 2005 \_\_\_\_\_  
*Joseph Michael Ranish*  
Joseph Michael RANISH

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Dean JENNINGS 6 Thoreau Circle Beverly, Massachusetts 01915 United States of America	2)	Haifan LANG 4523 Sora Terrace Fremont, California 94555 United States of America
3)	Mark YAM 17608 Vineland Avenue Monte Sereno, California 95030 United States of America	4)	Vijay PARIHAR 2253 Kalenda Common Fremont, California 94539 United States of America
5)	Abhilash MAYUR 17651 Olson Place Salinas, California 93907 United States of America	6)	Aaron HUNTER 3411 S. W. 13 <sup>th</sup> Avenue Portland, Oregon 97239 United States of America
7)	Bruce ADAMS 3411 S. W. 13 <sup>th</sup> Avenue Portland, Oregon 97239 United States of America	8)	Joseph Michael RANISH 3751 Woodleaf Court San Jose, California 95117 United States of America

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

**Dual Wavelength Thermal Flux Laser Anneal**

for which application for Letters Patent in the United States was filed on {Filing Date},

under Serial No. {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 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 Assignors, 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 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) \_\_\_\_\_, 2005 \_\_\_\_\_  
Dean JENNINGS
- 2) \_\_\_\_\_, 2005 \_\_\_\_\_  
Haifan LANG
- 3) 21 of March, 2005 \_\_\_\_\_  
Mark YAM
- 4) \_\_\_\_\_, 2005 \_\_\_\_\_  
Vijay PARIHAR
- 5) \_\_\_\_\_, 2005 \_\_\_\_\_  
Abhilash MAYUR
- 6) \_\_\_\_\_, 2005 \_\_\_\_\_  
Aaron HUNTER
- 7) \_\_\_\_\_, 2005 \_\_\_\_\_  
Bruce ADAMS
- 8) \_\_\_\_\_, 2005 \_\_\_\_\_  
Joseph Michael RANISH



**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Dean JENNINGS 6 Thoreau Circle Beverly, Massachusetts 01915 United States of America	2)	Haifan LIANG 4523 Sora Terrace Fremont, California 94555 United States of America
3)	Mark YAM 17608 Vineland Avenue Monte Sereno, California 95030 United States of America	4)	Vijay PARIHAR 2253 Kalenda Common Fremont, California 94539 United States of America
5)	Abhilash MAYUR 17651 Olson Place Salinas, California 93907 United States of America	6)	Aaron HUNTER 3411 S. W. 13 <sup>th</sup> Avenue Portland, Oregon 97239 United States of America
7)	Bruce ADAMS 3411 S. W. 13 <sup>th</sup> Avenue Portland, Oregon 97239 United States of America	8)	Joseph Michael RANISH 3751 Woodleaf Court San Jose, California 95117 United States of America

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

**Dual Wavelength Thermal Flux Laser Anneal**

for which application for Letters Patent in the United States was filed on {Filing Date},

under Serial No. {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 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 Assignors, 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 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.

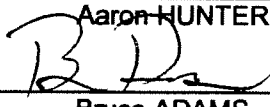
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed

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) \_\_\_\_\_, 2005 \_\_\_\_\_  
Dean JENNINGS
- 2) \_\_\_\_\_, 2005 \_\_\_\_\_  
Haifan LIANG
- 3) \_\_\_\_\_, 2005 \_\_\_\_\_  
Mark YAM
- 4) \_\_\_\_\_, 2005 \_\_\_\_\_  
Vijay PARIHAR
- 5) \_\_\_\_\_, 2005 \_\_\_\_\_  
Abhilash MAYUR
- 6) \_\_\_\_\_, 2005 \_\_\_\_\_  
Aaron HUNTER
- 7) 3/23/05, 2005   
Bruce ADAMS
- 8) \_\_\_\_\_, 2005 \_\_\_\_\_  
Joseph Michael RANISH