# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

## **CONVEYING PARTY DATA**

Name	Execution Date
Madhavi R. Chandrachood	01/17/2007
Michael N. Grimbergen	01/17/2007
Khiem K. Nguyen	01/16/2007
Richard Lewington	01/15/2007
Ibrahim M. Ibrahim	01/18/2007
Sheeba J. Panayil	02/01/2007
Ajay Kumar	01/12/2007

## RECEIVING PARTY DATA

Name:	ame: Applied Materials, Inc.	
Street Address: 3050 Bowers Avenue		
City:	Santa Clara	
State/Country:	CALIFORNIA	
Postal Code:	95054	

## PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	11589598		

## **CORRESPONDENCE DATA**

500240673

(408)986-3090 Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: sheri\_robinson@amat.com Correspondent Name: Applied Materials, Inc.

Address Line 1: P.O. Box 450A Address Line 2: Patent Counsel

Address Line 4: Santa Clara, CALIFORNIA 95052

ATTORNEY DOCKET NUMBER: 11457 USA 02

**PATENT** 

**REEL: 019023 FRAME: 0870** 

NAME OF SUBMITTER:	Sheri Griffin	
Total Attachments: 4		
source=11457US02EXECASGN020607#page1.tif		
source=11457US02EXECASGN020607#page2.tif		
source=11457US02EXECASGN020607#page3.tif		

source=11457US02EXECASGN020607#page4.tif

PATENT REEL: 019023 FRAME: 0871

# ASSIGNMENT FOR APPLICATION FOR PATENT

#### WHEREAS:

## Names and Addresses

of Inventors:

OI III	rentors.		
1)	MADHAVI R. CHANDRACHOOD	2)	MICHAEL N. GRIMBERGEN
	392 WAVERLY STREET		767 MARTINIQUE DRIVE
	SUNNYVALE, CA 94086		REDWOOD CITY, CA 94065
3)	KHIEM K. NGUYEN	4)	RICHARD LEWINGTON
	2724 KEPPLER COURT		602 EVANGELINE WAY
	SAN JOSE, CA 95148		HAYWARD, CA 94544
5)	IBRAHIM M. IBRAHIM	6)	SHEEBA J. PANAYIL
	2265 LENOX PLACE		2226 SCHOTT COURT
	SANTA CLARA, CA 95054		SANTA CLARA, CA 95054
7)	AJAY KUMAR		
	10457 MANZANITA COURT		
	CUPERTINO, CA 95014		

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

# "MASK ETCH PLASMA REACTOR HAVING AN ARRAY OF OPTICAL SENSORS VIEWING THE WORKPIECE BACKSIDE AND A TUNABLE ELEMENT CONTROLLED IN RESPONSE TO THE OPTICAL SENSORS"

for which application for Letters Patent in the United States was filed on **October 30, 2006**, under Application Serial No.: **11/589,598**; 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.

1 of 2

PATENT REEL: 019023 FRAME: 0872

- 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)	Jan-17, 2007 Madhavi R. Chandrachood
2)	1/17/07, 2007 mich N. ginbyr Michael N. Grimbergen
3)	Jan 6, 2007 Mayuyu Khiem K. Nguyen
4)	74~ 15 , 2007 Richard Lewington
5)	1 (2 67, 2007 Horanim M. Ibrahim
6)	, 2007 Sheeba J. Panayil
7)	Jan 12, 2007

## **ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

## Names and Addresses

of Inventors:

• • • • • • • • • • • • • • • • • • • •			
1)	MADHAVI R. CHANDRACHOOD	2)	MICHAEL N. GRIMBERGEN
	392 WAVERLY STREET		767 MARTINIQUE DRIVE
	SUNNYVALE, CA 94086		REDWOOD CITY, CA 94065
3)	KHIEM K. NGUYEN	4)	RICHARD LEWINGTON
	2724 KEPPLER COURT		602 EVANGELINE WAY
	SAN JOSE, CA 95148		HAYWARD, CA 94544
5)	IBRAHIM M. IBRAHIM	6)	SHEEBA J. PANAYIL
	2265 LENOX PLACE		2226 SCHOTT COURT
	SANTA CLARA, CA 95054		SANTA CLARA, CA 95054
7)	AJAY KUMAR		
	10457 MANZANITA COURT		
	CUPERTINO, CA 95014		

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

"MASK ETCH PLASMA REACTOR HAVING AN ARRAY OF OPTICAL SENSORS VIEWING THE WORKPIECE BACKSIDE AND A TUNABLE ELEMENT CONTROLLED IN RESPONSE TO THE OPTICAL SENSORS"

for which application for Letters Patent in the United States was filed on **October 30, 2006**, under Application Serial No.: **11/589,598**; 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.

1 of 2

PATENT REEL: 019023 FRAME: 0874

- 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)	,	2007	Madhavi R. Chandrachood
2)		2007	Michael N. Grimbergen
3)	,	2007	Khiem K. Nguyen
4)	,	2007	Richard Lewington
5)	,	2007	Ibrahim M. Ibrahim
6)	2/1	2007	Sheeba J. Panayil
7)		2007	Ajay Kumar