

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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>KAILASH K. PATALAY</td> <td>06/06/2008</td> </tr> <tr> <td>CRAIG METZNER</td> <td>06/18/2008</td> </tr> <tr> <td>DAVID K. CARLSON</td> <td>06/05/2008</td> </tr> </tbody> </table>		Name	Execution Date	KAILASH K. PATALAY	06/06/2008	CRAIG METZNER	06/18/2008	DAVID K. CARLSON	06/05/2008
Name	Execution Date								
KAILASH K. PATALAY	06/06/2008								
CRAIG METZNER	06/18/2008								
DAVID K. CARLSON	06/05/2008								
RECEIVING PARTY DATA									
Name:	APPLIED MATERIALS, INC.								
Street Address:	P.O. BOX 450A								
Internal Address:	LEGAL AFFAIRS DEPT.								
City:	SANTA CLARA								
State/Country:	CALIFORNIA								
Postal Code:	95052								
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>12144485</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12144485				
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CORRESPONDENCE DATA									
Fax Number:	(408)986-3090								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	408-563-2726								
Email:	robert_mulcahy@contractor.amat.com								
Correspondent Name:	Robert W. Mulcahy								
Address Line 1:	P.O. BOX 450A								
Address Line 2:	LEGAL AFFAIRS DEPT.								
Address Line 4:	SANTA CLARA, CALIFORNIA 95052								
ATTORNEY DOCKET NUMBER:	AM12070/FEP/PJT								
NAME OF SUBMITTER:	ROBERT W MULCAHY								
Total Attachments: 4									

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**PATENT
 REEL: 021137 FRAME: 0356**

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

	Kailash K. Patalay 500 Mansion Court, Apt. 304 Santa Clara, CA 95054 USA		Craig Metzner 618 Saddleback Terrace Fremont, CA 94536 USA
	David K. Carlson 4054 Claitor Way San Jose, CA 95132 USA		

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

"Semiconductor Process Chamber Vision and Monitoring System"

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, CA 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) JUNE 6, 2008, 2007 *pk*

P. Katalay
(INVENTOR) Kailash K. Patalay

2) _____, 2007

(INVENTOR) Craig Metzner

3) JUNE 5, 2008, 2007 *OKC*

David K. Carlson
(INVENTOR) David K. Carlson

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

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	Kailash K. Patalay 500 Mansion Court, Apt. 304 Santa Clara, CA 95054 USA		Craig Metzner 4142 Eagle Flight Dr Simi Valley , CA 93065
	David K. Carlson 4054 Claitor Way San Jose, CA 95132 USA		

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1) _____, 2007

(INVENTOR) Kailash K. Patalay

2) 6/18, 2007

Craig Metzner
(INVENTOR) Craig Metzner

3) _____, 2007

(INVENTOR) David K. Carlson