FORM PTO-1595 (Modified)	RECORDATION FORM COVER SHEET U.S. DEPARTMENT OF COMMERCE PATENTS ONLY Patent and Trademark Office		
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof			
<ol> <li>Name of conveying party(ies):</li> </ol>		2. Name and address of receiving	g party(ies):
	EXECUTION DATE	Name: <u>Applied Materials,</u>	Inc.
Dean JENNINGS Sairaju TALLAVARJULA Randhir THAKUR	11/5/02	Internal Address: <u>Legal Af</u>	fairs Department
Additional name(s) of conveying part(ies)	attached? Γ Yes <u>x</u> No	Street Address: <u>P.O. Box 45</u>	<u>0-a</u>
3. Nature of conveyance:			
<u>х</u> Assignment Г Ме	rger	City: <u>Santa Clara</u>	State <u>CA</u> Zip <u>_95052</u>
- Γ Security Agreement Γ Ch	nange of Name	Additional Name(s) & address(es	a) attached? [ Yes <u>x</u> No
Other			
Execution Date:SEE ABOVE			
4. Application number(s) or patent Numbe	er(s):	I	
If this document is being filed toget	ther with a new application	on, the execution date of the app	lication is:
A. Patent Application No.(s)		B. Patent No.(s)	
Serial No. 10/251,440 - Filing Da Additional Numbers attached? ſ Yes <u>x</u> No	nte: 9/20/02		
5. Name and address of party to whom cor		6. Total number of applications	and patents involved: <u>1</u>
concerning document should be mailed:		7. Total fee (37 CFR 3.41)	\$ <u>40.00</u>
Name: PATENT COUNSEL		Γ Enclosed	
Internal Address: <u>Applied Materials</u>		x Authorized to be charged	to deposit account
Legal Affairs Dep Street Address: P.O. Box 450-A	<u>.</u>	8. Deposit account number: 50-1074 (Attach duplicate copy of this account)	page if paying by deposit
City: <u>Santa Clara</u> State:	: <u>CA</u> ZIP: <u>95052</u>		
DO NOT USE THIS SPACE			
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and any attached copy is a true copy of the original document.  Robert W. Mulcahy, Reg. No. 25,436 Name of Person Signing  Signature  Date			
Name of Person Signing  Signature  Date  10. Total number of pages comprising cover sheet, attachments, and document: 7			
OMB No. 0651-0011 (exp. 4/94)			

Mail documents to be recorded with the required cover sheet information to: Commissioner of Patents & Trademarks , Box Assignments Washington, D.C. 20231

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FORMS\ASN-COV.LTR

**PATENT** 

**REEL: 013384 FRAME: 0016** 

1/94

Case 6113 (010732-077-999)

 $\rightarrow \rightarrow \rightarrow$  ASSIGNMENT

### ASSIGNMENT FOR APPLICATION FOR PATENT

### WHEREAS:

Names and Addresses of Inventors:

1)	Dean Jennings 6 Thoreau Circle Beverly, MA 01915	2)	Sairaju Tallavarjula 2545 South Park Lane Santa Clara, CA 95051
3)	Randhir Thakur 5261 Apennines Circle San Jose, CA 95138	4)	
5)		6)	

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

# "Optimal Spike Anneal Ambient"

for which application for Letters Patent in the United States was filed on September 20, 2002, under Serial No. 10/251,440, 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

1 of 2

PATENT REEL: 013384 FRAME: 0017 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)	1/21/03 (1802	Dean Jennings
2)		Sairaju Tallavarjula
3)	, 2002	Randhir Thakur

Case 6113 (010732-077-999)

 $\rightarrow \rightarrow \rightarrow$  ASSIGNMENT

### ASSIGNMENT FOR APPLICATION FOR PATENT

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# Names and Addresses

### of Inventors:

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1 of 2

PATENT REEL: 013384 FRAME: 0019 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.

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1)	, 2002		
		Dean Jennings	
2)	<i>Νο</i> υ. 5 , , 2002	5 Jall as arfila Sairaju Tallavarjula	
3)			
		Randhir Thakur	

Case 6113 (010732-077-999)

→→→ ASSIGNMENT

### ASSIGNMENT FOR APPLICATION FOR PATENT

### WHEREAS:

:4/03 FRI 14:05 FAX 408 986 3090

## Names and Addresses

### of Inventors:

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1 of 2

**PATENT** REEL: 013384 FRAME: 0021

 $\rightarrow \rightarrow \rightarrow$  ASSIGNMENT

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.

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1)	, 2002	Dean Jennings
2)	, 2002	Sairaju Tallavarjula
3)	1(~ /(~	Randhir Thakse

2 of 2