		Docket No.: 1455
FORM PTO-1595 (Modified) RI (Rev. 6-93) OMB No. 0651-0011 (exp.4/94)	02-18-1999	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
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Tab settings 🔶 🌪 💙 🛛 🗸	100966572	▼ ▼
To the Honorable Commissioner of Patents	<u> </u>	.ached original documents or copy thereof.
FEB 0 8 1999	2.8.99 Name: Applie Internal Addres	ress of receiving party(ies): d Materials, Inc.
3. Nature of conveyance:		
🛛 Assignment 🗌 Merger	Street Address	3050 Bowers Avenue
Security Agreement	of Name	
Other	City: Santa Cla	state: CA ZIP: 95054
Execution Date: 10/16/98 and 10/13/98 respectively	yAdditional_name(s)	& address(es) attached? 🔲 Yes 🛛 No
4. Application number(s) or registration numbers(s	<b>;)</b> :	
If this document is being filed together with a ne	ew application, the execution dat	e of the application is: 10/16/98, 10/13/98
A. Patent Application No.(s)	B. Paten	t No.(s)
2/11/1999 MMARNOL 00000083 200782 09175143 1 FC:381 40.00 CH 09/175,14	3	
Additional	numbers attached?	3 No
5. Name and address of party to whom correspond concerning document should be mailed:	dence 6. Total number of	of applications and patents involved: 1
Name: Patent Counsel	7. Total fee (37 C	CFR 3.41):\$ 40.00
Internal Address: Applied Materials, Inc.	Enclosed -	Any excess or insufficiency should be debited to deposit account
	X Authorized	to be charged to deposit account
Street Address: P.O. Box 450A	8. Deposit accou	nt number:
oite Santa Clara Chata Ch. 7	20-0782	
City: Santa Clara State: CA Z		
	DO NOT USE THIS SPACE	
<ol> <li>Statement and signature.</li> <li>To the best of my knowledge and belief, the for of the original document.</li> </ol>	egoing information is true and co	prrect and any attached copy is a true copy
Raymond R. Moser Jr.	Derty	2-2-97
Name of Person Signing Total number of pages inc	Juding cover sheet, attachments, ar	nd document: 3 Date
	<u></u>	PATENT
	R	EEL: 9757 FRAME: 0697

## ASSIGNMENT FOR APPLICATION FOR PATENT

## WHEREAS:

Names and Addresses of Inventors:

- 1) Thomas M. Duddy 840 Andromida Lane Foster City, CA
- 2) Robin M. Ellis 1870 Claremont Drive San Bruno, CA 94066
- Craig A. Bercaw
   983 Asilomar Terrace
   Sunnyvale, CA 94086

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

## HEAT EXCHANGER APPARATUS FOR A SEMICONDUCTOR WAFER SUPPORT AND METHOD OF FABRICATING SAME

for which application for Letters Patent in the United States was 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 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)	027 16, 1998	Thomas M. Duddy
2)	<u>. Oct 13</u> , 1998	Robin M. Ellis
3)	, 1998	

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Craig A. Bercaw