To the Honorable Commiss  102068812  1. Name of conveying party(yes):  Dror Shemesh Ariel Ben-Porath Ariel Ben-Porath Alexey Stepanov  Additional name(s) of conveying Part(ies) attached? No  Additional name(s) of conveyance;  X Assignment Security Agreement Other Execution Date: See Above  4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  Additional Numbers attached? No  Additional Numbers attached? No  Additional Numbers attached? No  Additional Number of applications and patent involved:  Additional number of applications and patent involved:  Additional number of applications and patent involved:  Name: Application is:  Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  B. Patent No.(s)  Additional Numbers attached? No  5. Name and address of party to whom correspondence concerning this document should be mailed:  Name: Application and address of party to whom correspondence concerning this document should be mailed:  Name: Patent Applications and patent involved:  Total Fee (37 CFR 3.41)	2061_				
To the Honorable Commiss  102068812  ord the attached original documents or copy there    Name of conveying party(yes):   EXECUTION DATE   March 5, 2002   March 12, 2002   Dubi Shachal   March 5, 2002   March 12, 2002   March 1	2061_				
1. Name of conveying party(yes):  EXECUTION DATE  Dror Shemesh March 5, 2002 Ariel Ben-Porath March 12, 2002 Dubi Shachal March 5, 2002 Alexey Stepanov March 12, 2002  Additional name(s) of conveying Part(ies) attached? No  3. Nature of conveyance; X Assignment Security Agreement Change of Name Other  Execution Date: See Above  4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  B. Patent No.(s)  Additional Numbers attached? No  Execution Date: See Above  Additional Numbers attached? No  Additional Numbers attached? No  Additional Numbers attached? No  5. Name and address of party to whom correspondence concerning this document should be mailed: Name: PATENT COUNSEL	2061_				
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Ariel Ben-Porath Dubi Shachal Alexey Stepanov March 12, 2002 March 5, 2002 Alexey Stepanov March 12, 2002  Additional name(s) of conveying Part(ies) attached? No  Street Address: 3050 Bowers Ave.  City: Santa Clara State: CA Zip: 95054  Additional Name(s) & Address(es) attached? No  3. Nature of conveyance: X Assignment Security Agreement Other Execution Date: See Above  4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  B. Patent No.(s)  Additional Numbers attached? No  5. Name and address of party to whom correspondence concerning this document should be mailed: Name: PATENT COUNSEL					
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Internal Address: Applied Materials, Inc.					
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Street Address: P. O. Box 450A  Legal Affairs Department - M/S 2061 P. O. Box 450A  X Authorized to be charged to deposit account					
City: Santa Clara State: CA Zip: 95052					
8. Deposit Account Number:					
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9. Statement and signature.					
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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 ( Lold W Mulcal) 3/17/09					
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PATENT REEL: 012807 FRAME: 0284

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Dror SHEMESH 4 Huberman Street Petah Tikva 49353 Israel	2)	Ariel BEN-PORATH 14 Pinsker Street Rehovot, 76308 Israel
3)	Dubi SHACHAL Menuha Venahala 37/25 Rehovot, 76308 Israel	4)	Alexey STEPANOV Sheftel 15/6 Rishon LeZion 75234 Israel

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

## SYSTEM AND METHOD FOR DIRECTING A MILLER

for which application for Letters Patent in the United States was filed on November 26, 2001, under Serial No. 10/005,190, 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,

PATENT REEL: 012807 FRAME: 0285 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)	March 5, 2002	0 noc	
		Dror Shemesh	
2)	March 12, 2002	A.Ber-1500	
		Ariel Ben-Porath	
3)	March 5, 2002_	Date Shedal	
·		Dubi Shachal	
4)	March 12, 2002	K Cut	
-		Álexev Stenanov	

RECORDED: 04/09/2002