

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Benjamin Buller	10/29/2005
William J. DeVore	10/18/2005
Juergen Frosien	10/18/2005
Xinrong Jiang	10/18/2005
Richard L. Lozes	10/18/2005
Henry Thomas Pearce-Percy	10/18/2005
Dieter Winkler	10/19/2005
Steven T. Coyle	10/17/2005
Helmut Banzhof	10/24/2005

RECEIVING PARTY DATA

Name:	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:	11243363

CORRESPONDENCE DATA

Fax Number: (415)538-8380
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
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 Email: jaoffice@janah.com
 Correspondent Name: Janah & Associates,PC ; Ashok K. Janah
 Address Line 1: 650 Delancey Street, Suite 106
 Address Line 4: San Francisco, CALIFORNIA 94107

CH \$40.00 11243363

ATTORNEY DOCKET NUMBER:

009660 USA

NAME OF SUBMITTER:

Ashok K. Janah

Total Attachments: 12

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- | | |
|---|---|
| 1) Benjamin Buller
10379 Lansdale Ave.
Cupertino, CA 95014
U.S.A.; | 2) William J. DeVore
22828 Kings Court
Hayward, CA 94541
U.S.A.; |
| 3) Juergen Frosien
Kufsteinerstrasse 16A
D-85521 Riemerling
Germany; | 4) Xinrong Jiang
3264 Greer Road
Palo Alto, CA 94303
U.S.A.; |
| 5) Richard L. Lozes
P.O. Box 5340
Pleasanton, CA 94566
U.S.A.; | 6) Henry Thomas Pearce-Percy
23415 Skyview Terrace
Los Gatos, CA 95033
U.S.A.; |
| 7) Dieter Winkler
Stademannstr. 6
D-81737 Munich
Germany; | 8) Steven T. Coyle
1049 Fair Oaks Ave
Alameda, CA 94501
U.S.A.; and |
| 9) Helmut Banzhof
Margeritenser. 12c
85596 Poing
Germany | |

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

"ELECTRON BEAM COLUMN FOR WRITING SHAPED ELECTRON BEAMS"

which is attached hereto

for which application for Letters Patent in the United States was filed on 10/03/2005 ,
under Serial No. 11/243,363, 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:


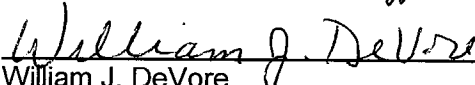
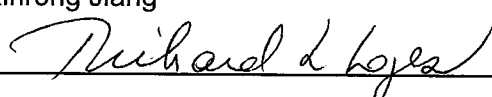
1. Said Assignors hereby sell, assign, transfer, and convey to Assignee the full and exclusive right, title, and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention 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) <u>29-Oct-2005</u> Date	<u></u> Benjamin Buller
2) <u>18 Oct 2005</u> Date	<u></u> William J. DeVore
3) _____ Date	_____ Juergen Frosien
4) _____ Date	_____ Xinrong Jiang
5) <u>18 October 2005</u>	<u></u>

Date
6) 18 Oct. 2005
Date

Richard L. Lozes

Henry Thomas Pearce-Percy

7) _____
Date

Dieter Winkler

8) _____
Date

Steven T. Coyler

9) _____
Date

Helmut Banzhof

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WHEREAS:

Names and Addresses of Inventors:

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| 1) Benjamin Buller
10379 Lansdale Ave.
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U.S.A.; | 2) William J. DeVore
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U.S.A.; and |
| 9) Helmut Banzhof
Margeritenser. 12c
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(hereinafter referred to as Assignors), have invented a certain invention entitled:

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1)	_____	_____
	Date	Benyamin Buller
2)	_____	_____
	Date	William J. DeVore
3)	_____	_____
	Date	Juergen Frosien
4)	_____	_____
	Date	Xinrong Jiang
5)	_____	_____
	Date	Richard L. Lozes

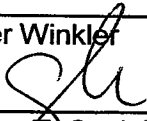
6) _____
Date

Henry Thomas Pearce-Percy

7) _____
Date

Dieter Winkler

8) 10/17/05
Date



Steven T. Coyle

9) _____
Date

Helmut Banzhof

ASSIGNMENT FOR APPLICATION FOR PATENT

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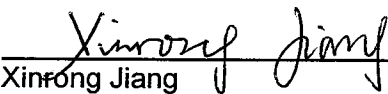
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	Date	William J. DeVore
3)	_____	_____
	Date	Juergen Frosien
4)	10/18/2005	
	Date	Xinrong Jiang
5)	_____	_____
	Date	Richard L. Lozes

- 6) _____
Date Henry Thomas Pearce-Percy
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Date Helmut Banzhof

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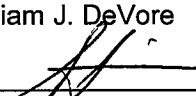
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1)	_____	_____
	Date	Benyamin Buller
2)	_____	_____
	Date	William J. DeVore
3)	<u>19. 10. 2005</u>	
	Date	Juergen Frosien
4)	_____	_____
	Date	Xinrong Jiang
5)	_____	_____

Date	Richard L. Lozes
6) _____ Date	Henry Thomas Pearce-Percy
7) <u>19.10.05</u> Date	<u>Winkler</u> Dieter Winkler
8) _____ Date	Steven J. Coyler
9) <u>24.10.05</u> Date	<u>Banzhof</u> Helmut Banzhof