

FORM PTO-1595  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)

U.S. Department of Commerce  
Patent and Trademark Office



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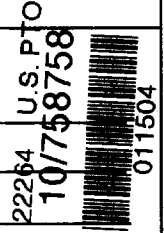
To the Honorable Commissioner of Patents a... original document or copy thereof.

1. Name of conveying party(ies):	<u>Date</u>
LUC VAN AUTRYVE	12/01/03
CHRIS D. BENCHER	12/09/03
DEAN JENNINGS	12/18/03
HAIFAN LIANG	11/03/03
ABHILASH J. MAYUR	11/04/03
MARK YAM	11/04/03
WENDY H. YEH	12/03/03
RICHARD A. BROUGH	12/04/03

2. Name and address of receiving party(ies):

Name: Applied Materials, Inc.

Internal Address: P.O. Box 450-A



Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

Assignment 1.15.04  Merger

Security Agreement  Change of Name

Other \_\_\_\_\_

Street Address: \_\_\_\_\_

City: Santa Clara State: CA Zip: 95052

Additional name(s) & address(es) attached?  Yes  No

Execution Date: See Above and the Attached

4. Application number(s) or registration number(s): \_\_\_\_\_

If this document is being filed together with a new application, the execution date of the application is: January 15, 2003 (Date of Filing)

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent Counsel

Internal Address: APPLIED MATERIALS, INC.

Street Address: P.O. Box 450-A

City: Santa Clara State: CA Zip: 95052

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$ 40.00

Enclosed

Authorized to be charged to deposit account

50-1074/8764.P1/FEP/OXD/JW

8. Deposit account number:

50-1074/8764.P1/FEP/OXD/JW

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert W. Mulcahy Reg. No. 25,436  
Name of Person Signing

Signature

January 15, 2003  
Date

Total number of pages including cover sheet, attachments and document: 12

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents, MAIL STOP PATENT APPLICATION  
P.O. BOX 1450  
Alexandria, VA 22313-1450

01/23/2004 BBYRME 00000033 501074 10758758  
01 FC:8021 40.00 BA

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

<b>1)</b>	<b>LUC VAN AUTRYVE</b> Rue du Gros Tienne 6 1332, Rixensart, Belgium	<b>2)</b>	<b>CHRIS D. BENCHER</b> 1251 Hazlett Court San Jose, California 95131
<b>3)</b>	<b>DEAN JENNINGS</b> 6 Thireau Circle Beverly, Massachusetts 01915	<b>4)</b>	<b>HAIFAN LIANG</b> 1130 3rd. Avenue #210 Oakland, California 94606
<b>5)</b>	<b>ABHILASH J. MAYUR</b> 17651 Olsen Place Salinas, California 93906	<b>6)</b>	<b>MARK YAM</b> 17608 Vineland Avenue Monte Sereno, California 95030
<b>7)</b>	<b>WENDY H. YEH</b> 2439 Villa Nueva Way Mountain View, California 94040	<b>8)</b>	<b>RICHARD BROUGH</b> 23 Meadow Brook Lane Wingdale, New York 12594

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

**ABSORBER LAYER FOR DSA PROCESSING**for which application for Letters Patent in the United States was filed on HERewith ,  
under Serial No. UNKNOWN , 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) Dec 1<sup>st</sup> 2003 (DATE)   
LUC VAN AUTRYVE
- 2) \_\_\_\_\_ (DATE) \_\_\_\_\_  
CHRIS D. BENCHER
- 3) \_\_\_\_\_ (DATE) \_\_\_\_\_  
DEAN JENNINGS
- 4) \_\_\_\_\_ (DATE) \_\_\_\_\_  
HIFAN LIANG
- 5) \_\_\_\_\_ (DATE) \_\_\_\_\_  
ABHILASH J. MAYUR
- 6) \_\_\_\_\_ (DATE) \_\_\_\_\_  
MARK YAM

7) \_\_\_\_\_ (DATE)

\_\_\_\_\_  
**WENDY H. YEH**

8) \_\_\_\_\_ (DATE)

\_\_\_\_\_  
**RICHARD BROUGH**

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	<b>LUC VAN AUTRYVE</b> 68 Rue Leconte de Lisle Mennecy, France 91540	2)	<i>Christopher D. Benchner</i> <b>CHRIS D. BENCHER</b> 1251 Hazlett Court San Jose, California 95131
3)	<b>DEAN JENNINGS</b> 6 Thireau Circle Beverly, Massachusetts 01915	4)	<b>HAIFAN LIANG</b> 1130 3rd. Avenue #210 Oakland, California 94606
5)	<b>ABHILASH J. MAYUR</b> <i>AMM.</i> 1765 <u>Olsen</u> Place <i>Olson</i> Salinas, California 93906	6)	<b>MARK YAM</b> 17608 Vineland Avenue Monte Sereno, California 95030
7)	<b>WENDY H. YEH</b> 2439 Villa Nueva Way Mountain View, California 94040	8)	<b>RICHARD BROUGH</b> 23 Meadow Brook Lane Wingdale, New York 12594

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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.

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IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

- 1) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**LUC VAN AUTRYVE**
- 2) 12/9/03 (DATE) *Chris D. Bencher*  
**CHRIS D. BENCHER**  
*Christopher D. Bencher*
- 3) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**DEAN JENNINGS**
- 4) 11/3/03 (DATE) *Hifan Liang*  
**HIFAN LIANG**
- 5) 11/4/03 (DATE) *Abhilash J. Mayur*  
**ABHILASH J. MAYUR**
- 6) 11/4/03 (DATE) *Mark Yam*  
**MARK YAM**
- 7) 12/3/03 (DATE) *Wendy H. Yeh*  
**WENDY H. YEH**

8)

\_\_\_\_\_ (DATE)

**RICHARD BROUGH**

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3 of 3

**PATENT**  
**REEL: 014907 FRAME: 0218**

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	<b>LUC VAN AUTRYVE</b> 68 Rue Leconte de Lisle Mennecy, France 91540	2)	<b>CHRIS D. BENCHER</b> 1251 Hazlett Court San Jose, California 95131
3)	<b>DEAN JENNINGS</b> 6 Thoreau Circle <i>D.J.</i> Beverly, Massachusetts 01915 <i>6 Thoreau Circle</i>	4)	<b>HAIFAN LIANG</b> 1130 3rd. Avenue #210 Oakland, California 94606
5)	<b>ABHILASH J. MAYUR</b> 17651 Olsen Place Salinas, California 93906	6)	<b>MARK YAM</b> 17608 Vineland Avenue Monte Sereno, California 95030
7)	<b>WENDY H. YEH</b> 2439 Villa Nueva Way Mountain View, California 94040	8)	<b>RICHARD BROUGH</b> 23 Meadow Brook Lane Wingdale, New York 12594

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

**ABSORBER LAYER FOR DSA PROCESSING**for which application for Letters Patent in the United States was filed on 10/3/2003,  
under Serial No. 10/679,189 , 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.

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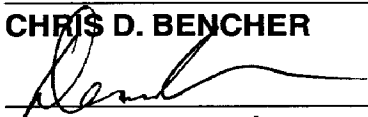
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- 1) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**LUC VAN AUTRYVE**
- 2) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**CHRIS D. BENCHER**
- 3) 18 Dec 03 (DATE)   
**DEAN JENNINGS**
- 4) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**HIFAN LIANG**
- 5) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**ABHILASH J. MAYUR**
- 6) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**MARK YAM**
- 7) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**WENDY H. YEH**
- 8) \_\_\_\_\_ (DATE) \_\_\_\_\_  
**RICHARD BROUGH**

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

<b>1)</b>	<b>LUC VAN AUTRYVE</b> Rue du Gros Tienne 6 1332, Rixensart, Belgium	<b>2)</b>	<b>CHRIS D. BENCHER</b> 1251 Hazlett Court San Jose, California 95131
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1)	_____ (DATE)	_____
		<b>LUC VAN AUTRYVE</b>
2)	_____ (DATE)	_____
		<b>CHRIS D. BENCHER</b>
3)	_____ (DATE)	_____
		<b>DEAN JENNINGS</b>
4)	_____ (DATE)	_____
		<b>HIFAN LIANG</b>
5)	_____ (DATE)	_____
		<b>ABHILASH J. MAYUR</b>
6)	_____ (DATE)	_____
		<b>MARK YAM</b>

7) \_\_\_\_\_ (DATE)

\_\_\_\_\_  
**WENDY H. YEH**

8) 12/4/03. (DATE)

Richard A. Brough  
**RICHARD BROUGH**