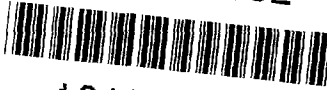


01-02-2002



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Tel settings

12/12/01

To the Honorable Commissioner of Patents and Trademarks: Please return attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Chang-Lin Hsieh  
Jie Yuan  
Hui Chen  
Theodoros Panagopoulos  
Yan Ye120701  
120701  
121001  
120701  
120701

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

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

Name: Applied Materials, Inc.

Internal Address: \_\_\_\_\_

Street Address: 3050 Bowers Ave.City: Santa ClaraState: CAZIP: 95054Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_

Execution Date: \_\_\_\_\_

SEE ABOVE

## 4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

12-12-01

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 CounselInternal Address: Applied Materials, Inc.Legal Affairs DepartmentM/S 2061Street Address: P.O. Box 450ACity: Santa ClaraState: CAZIP: 95052

## 6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

## 8. Deposit account number:

50-1074

(Attach duplicate copy of this page if paying by deposit account)

## 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 Mulcahy Reg. No. 25,436

Name of Person Signing

Signature

Date

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

3

PATENT

REEL: 012397 FRAME: 0505

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

- |                    |                           |
|--------------------|---------------------------|
| 1) Chang-Lin Hsieh | 2) Jie Yuan               |
| 3) Hui Chen        | 4) Theodoros Panagopoulos |
| 5) Yan Ye          |                           |

(hereinafter collectively and severally referred to as Assignor), have invented a certain invention entitled:

**PROCESS FOR SELECTIVELY ETCHING DIELECTRIC LAYERS**

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 Assignor, 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 Assignor to have been received in full from said Assignee:

1. Said Assignor hereby sells, assigns, transfers and conveys 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 Assignor hereby covenants and agrees 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 Assignor 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 Assignor 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 Assignor, his or her respective heirs, legal representatives and assigns.

4. Said Assignor hereby warrants and represents that he/she has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument to said Assignee on the date indicated below.

- 1) 12-07, 2001 Hsieh ny-25  
Chang-Lin Hsieh
- 2) 12-07, 2001 Jie Yuan  
Jie Yuan
- 3) 12-10-01, 2001 Hui Chen  
Hui Chen
- 4) 12/07/1, 2001 Theodoros Panagopoulos  
Theodoros Panagopoulos
- 5) 12-07-01, 2001 Yan Ye  
Yan Ye