

9/7/99

09-13-1999



ASSIG 101142993  
-PATENTS ONLY-

R SHEET

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies)  
a) Gladys So-Wan Lo  
b) David W. Mytton  
c) Gregory James Goldspring



2. Name and address of receiving party(ies):  
a) Name: Lam Research Corporation  
Address: 4650 Cushing Parkway, Building CA-1  
Fremont, CA 94538-6516

3. Nature of conveyance  
☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_ ☐ License Agreement

Execution Date: August 26, 1999

4. Application Number(s) or Patent Number(s): 09/345,974

The title of the (new) application is:

**METHOD AND APPARATUS FOR ETCHING A GOLD METAL LAYER USING A TITANIUM  
HARDMASK**

5. Please send all correspondence concerning this (these) documents to:

HICKMAN STEPHENS & COLEMAN, LLP  
P.O. Box 52037  
Palo Alto, CA 94303-0746  
Tel. No.: (650) 470-7430  
Fax No.: (650) 470-7440

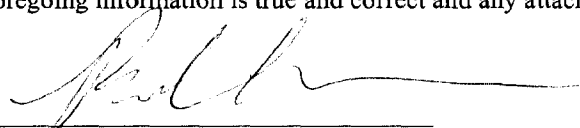
6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed  
☐ Authorized to be charged to Deposit Account No. 50-0384  
(Order No. LAM1P096)

8. 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.

Date: September 1, 1999

  
Paul L. Hickman  
Registration No. 28,516

Attorney Docket No. LAM1P096/P0533

(Revised 01/96)

PATENT  
REEL: 010220 FRAME: 0879

09/09/1999 TLJH11 00000053 09345974

40.00 00

03 FC:501

# ASSIGNMENT OF PATENT APPLICATION

(Not Accompanying Application)

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

## A METHOD AND APPARATUS FOR ETCHING A GOLD METAL LAYER USING A TITANIUM HARDMASK

for which I (we) have executed an application for a United States Letters Patent which was filed in the U.S. Patent and Trademark Office on June 30, 1999, and which bears the Application No. 09/345,974.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we the undersigned inventor(s) hereby:

1) Sell(s), assign(s) and transfer(s) to Lam Research Corporation, a Delaware corporation having a place of business at 4650 Cushing Parkway, Building CA-1, Fremont, CA 94538-6516, (hereinafter referred to as ("ASSIGNEE")), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.

2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.

3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.

4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.

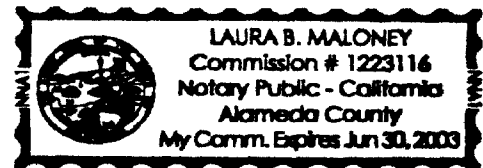
5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

1) Signature: Gladys So-Wan Lo  
Typed Name: Gladys So-Wan Lo

Date: 8/26/99

County of Alameda )  
 ) ss.  
State of California )



On this 26 day of August, in the year 1999, before me, Laura B Maloney, personally appeared Gladys So-Wan Lo, personally known to me ~~(or proved to me on the basis of satisfactory evidence)~~ to be the person whose name is subscribed to the within instrument, and acknowledged to me that ~~he/she~~ executed the same in ~~his/her~~ authorized capacity(ies), and that by ~~his/her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Laura B Maloney  
Notary Public

Attorney Docket No. LAM1P096/P0533

Signature \_\_\_\_\_

(SEAL)

2) Signature: *David W. Mytton*  
Typed Name: David W. Mytton

Date: 8/27/99

County of Clark )  
State of Washington ) ss.

On this 27 day of August, in the year 1999, before me, NOIS R. ROBERTS, personally appeared DAVID W. MYTTON, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature *NOIS R. ROBERTS*

NOIS R. ROBERTS  
NOTARY PUBLIC  
STATE OF WASHINGTON  
COMMISSION EXPIRES  
DECEMBER 15, 1999

3) Signature: *Gregory James Goldspring*  
Typed Name: Greg Goldspring  
Gregory James Goldspring

Date: 8/26/99

County of Alameda )  
State of California ) ss.

On this 26 day of August, in the year 1999, before me, LAURA B. MALONEY, personally appeared GREGORY JAMES GOLDSRING, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature *Laura B. Maloney*

