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ASSIGNMENT RECORDATION COVER SHEET  
-PATENTS ONLY-

To: Honorable Commissioner of Patents and Trademarks:

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

1. Name of conveying party(ies)
  - a) Andrew D. Bailey, III
  - b) Alan M. Schoepp
  - c) Nicolas Bright
2. Name and address of receiving party(ies):
  - a) Name: Lam Research Corporation
  - Address: 4650 Cushing Parkway  
Fremont, CA 94538
3. Nature of conveyance

<input checked="" type="checkbox"/>	Assignment	<input type="checkbox"/>	Merger
<input type="checkbox"/>	Security Agreement	<input type="checkbox"/>	Change of Name
<input type="checkbox"/>	Other _____	<input type="checkbox"/>	License Agreement

Execution Date: January 20, 2000 and January 25, 2000

4. Application Number(s) or Patent Number(s): 09/439,759

The title of the (new) application is: METHOD AND APPARATUS FOR CONTROLLING THE VOLUME OF A PLASMA

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

**Customer Number: 022434**

BEYER & WEAVER, LLP  
P.O. Box 61059  
Palo Alto, CA 94306  
Telephone (650) 493-2100  
Fax (650) 493-2102

6. Total number of applications and patents involved: 1

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

- ☒ Enclosed  
☒ Any additional fees are authorized to be charged to Deposit Account No. 50-0388  
(Order No.LAM1P129)

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: January 27, 2000

Quin C. Hoellwarth  
Registration No. P45,738

02/02/2000 MARI 00000108 09439759

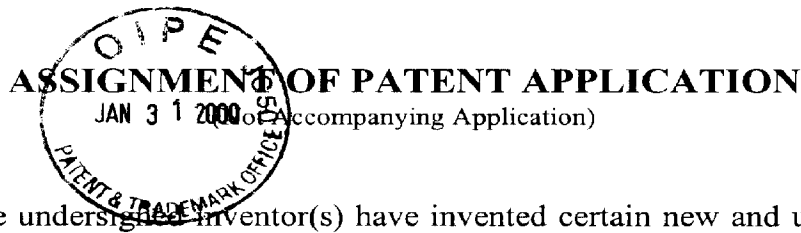
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40.00 DP

Attorney Docket No. LAM1P129/P0593

(Revised 01/96)

PATENT  
REEL: 010523 FRAME: 0250



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


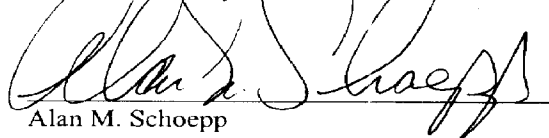

**METHOD AND APPARATUS FOR CONTROLLING THE VOLUME OF A PLASMA**

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 November 15, 1999, and which bears the Application No. 09/439,759.

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, Fremont, CA 94538, (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:  Date: 1/20/00  
Typed Name: Andrew D. Bailey, III
- 2) Signature:  Date: 1/20/00  
Typed Name: Alan M. Schoepp
- 3) Signature:  Date: 1/25/00  
Typed Name: Nicolas Bright