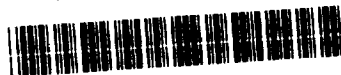


02-18-2000



ASSI

101271098
PATENTS ONLY-

ER SHEET

*MRP
1-19-00*

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original documents or copy thereof.

1. Name of conveying parties:
 - a) Oliver Design, Inc.

2. Name and address of receiving parties:
 - a) Name: Lam Research Corporation
 - b) Address: 4650 Cushing Parkway, Fremont, CA 94538-6516

3. Nature of conveyance

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

Execution Date: November 12, 1999

4. Application Number or Patent Number: 08/757,698 filed December 3, 1996

The title of the application is: APPARATUS FOR CLEANING ROBOT END EFFECTOR

5. Please send all correspondence concerning these documents to:

Albert S. Penilla
 MARTINE PENILLA & KIM, LLP
 710 Lakeway Drive, Suite 170
 Sunnyvale, CA 94086
 Tel. No. (408) 749-6900
 Fax No.: (408) 749-6901


6. Total number of applications and patents involved: 1

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

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Enclosed |
| <input checked="" type="checkbox"/> | Authorized to be charged to Deposit Account No. 50-0805
(Order No. <u>LAM2P131C</u>) |

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 14, 2000



 Albert S. Penilla, Esq.
 Registration No. 39,487

02/16/2000 TTON11 00000190 08757698
 01 FC:581 40.00 OP

Attorney Docket No. LAM2P131C

(Revised 01/96)

PATENT
REEL: 010552 FRAME: 0186

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (the "Assignment") is entered into as of November 12, 1999, by Oliver Design, Inc., a California corporation having its principal place of business located at 100 Technology Circle, Scotts Valley, California ("Seller"), for the benefit of Lam Research Corporation, a Delaware corporation having its principal place of business located at 4650 Cushing Parkway, Fremont, California (the "Company").

RECITALS

WHEREAS, Seller and the Company are party to a certain Asset Purchase Agreement dated as of November 12, 1999, pursuant to which Seller has agreed to assign, among other things, certain intellectual property to the Company:

ASSIGNMENT

NOW, THEREFORE, in consideration of the foregoing and the mutual promises contained herein and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the parties agree as follows:

1. Seller Patents. For purposes of this Assignment, "Seller Patents" shall mean each of the patents and patent applications listed on Schedule 1 hereto, and (i) any other patent rights owned or controlled by Seller in the patents and patent applications listed on Schedule 1, and the inventions covered thereby, and Foreign Counterparts (as defined below) thereof, and (ii) any additional patent rights Seller now owns, controls or has access to, or may own in the future which are now continuations, continuation prosecution applications ("CPAs"), continuations-in-part, divisionals or substitutes of the original applications upon which the aforementioned Schedule 1 patent and patent applications are based, and the inventions covered thereby, or Foreign Counterparts thereof, and upon any reexaminations, reissues, renewals or extensions thereof. "Foreign Counterparts" shall mean all foreign patent applications and issued foreign patents, utility models or invention registrations in any country throughout the world, which claim priority from, or share common priority with, an identified United States patent or patent application, or which claim and disclose substantially similar inventions that are the subject matter of such identified United States patent or patent applications.

2. Assignment. Seller hereby assigns, transfers and conveys to the Company all of Seller's rights, title and interest throughout the world in and to the Seller Patents, the underlying inventions described therein, and all rights, claims and privileges pertaining to the Seller Patents.

3. Effective Date. This Assignment shall be effective as of the date set forth above.

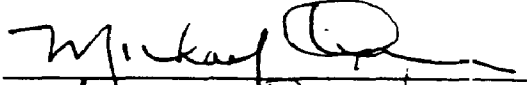
Appendix C

23135.00070:12167438.3

PATENT
REEL: 010552 FRAME: 0188

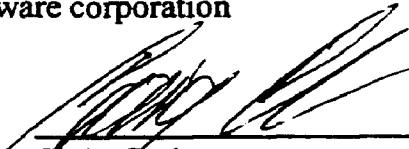
IN WITNESS WHEREOF, the undersigned has executed this Assignment as of the date first written above.

OLIVER DESIGN, INC., a California corporation.

By: 
Name: MICHAEL OXSEN
Title: President & CEO

Acknowledged:

LAM RESEARCH CORPORATION, a Delaware corporation

By: 
Name: Craig Garber
Title: Treasurer and VP Corporate Finance

Date: November 16 1999

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Clara

On November 12, 1999 before me, Doris Zimmermann
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Michael Ossen
Name(s) of Signer(s)

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument?



WITNESS my hand and official seal.

[Handwritten Signature]
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Patent Assignment

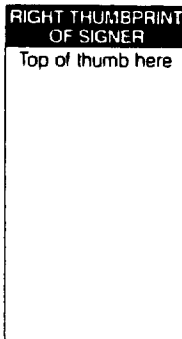
Document Date: November 12, 1999 Number of Pages: 2

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: Michael Ossen

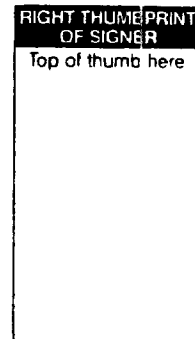
- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:)
)
Oliver David Jones)
)
Application No. 08/757,698)
)
Filed: December 3, 1996)
)
For: APPARATUS FOR CLEANING ROBOT)
END EFFECTOR)
_____)

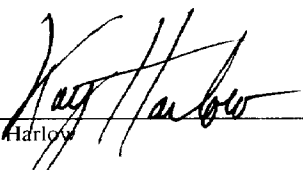
Group No: 1746
Examiner: F. Stinson
Docket No: LAM2P131C
Date: January 14, 2000

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on

DATE: January 14, 2000.

Signed: _____


Kay Harlow

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCAION OF PRIOR POWERS)**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

As assignee of record of the entire interest of the above identified

- application,
- patent,

REVOCAION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked and

NEW POWER OF ATTORNEY

the following attorneys and/or agents are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Peter B. Martine (Reg. No. 32,043); Albert S. Penilla (Reg. No. 39,487); Raymis H. Kim (Reg. No. 39,462); Chester Martine (Reg. No. 19, 711); and Anthony J. Josephson (Reg. No. P45,742); Jeffrey J. Brooks (Reg. No. 35,834); and Marilyn Glaubenskleee (Reg. No. 35,521).

Attached, as part of this power of attorney, is the authorization of the above-named attorneys to accept and follow instructions from my representatives.

Attorney Docket No. LAM2P131C

SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

Albert S. Penilla
MARTINE, PENILLA & KIM, LLP
710 Lakeway Dr., Suite 170
Sunnyvale, CA 94086
(408) 749-6900

Lam Research Corp. (per 37 CFR §3.73(b) Filed
herewith)

(type or print identity of assignee of entire interest)

4650 Cushing Parkway

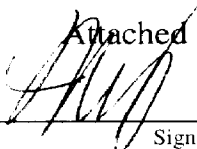
Address

Fremont, CA 94538-6516

- Recorded in PTO on July 15, 1996
Reel 8096
Frame 0606
- Recorded herewith

ASSIGNEE STATEMENT

Attached to this power is a "STATEMENT UNDER 37 C.F.R. 3.73(b)."



Signature

Date 1/11/00

Richard Lovgren

(type or print name of person authorized to sign on behalf of assignee)

Vice President, General Counsel and Corporate Secretary

Title

(check the following item, if it forms a part of this power of attorney)

- Added page –Authorization of attorneys to accept and follow instructions from representative.

Respectfully submitted,
MARTINE, PENILLA & KIM, LLP



Albert S. Penilla, Esq.
Reg. No. 39,487

710 Lakeway Dr., Suite 170
Sunnyvale, CA 94086
(408) 749-6900

Attorney Docket No. LAM2P131C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:)	
)	Group No: 1746
Oliver David Jones)	
)	Examiner: F. Stinson
Application No. 08/757,698)	
)	Docket No: LAM2P131C
Filed: December 3, 1996)	
)	Date: <u>January</u> 14, 2000
For: APPARATUS FOR CLEANING ROBOT)	
END EFFECTOR)	
_____)	

ADDED PAGE TO POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST FOR AUTHORIZATION OF ATTORNEY(S) TO ACCEPT AND FOLLOW INSTRUCTIONS FROM REPRESENTATIVE

The undersigned to this power of attorney hereby authorizes the U.S. attorneys named herein to accept and follow instructions from

Albert S. Penilla
MARTINE, PENILLA & KIM, LLP
710 Lakeway Dr., Suite 170
Sunnyvale, CA 94086

As to any actions to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person from whom instructions may be taken, the U.S. attorneys will so be notified by the undersigned.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:)
)
 Oliver David Jones)
)
 Application No. 08/757,698)
)
 Filed: December 3, 1996)
)
 For: APPARATUS FOR CLEANING ROBOT)
 END EFFECTOR)
 _____)

Group No: 1746
 Examiner: F. Stinson
 Docket No: LAM2P131C
 Date: January 14, 2000

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on

DATE: January 14, 2000
 Signed: _____
 Kay Harlow

**STATEMENT UNDER 37 C.F.R. § 3.73(b)
 ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

Assistant Commissioner for Patents
 Washington, D.C. 20231

Sir:

- The assignee of the entire right, title and interest hereby seek to take action in the PTO in this matter.

IDENTIFICATION OF ASSIGNEE

- Lam Research Corporation
Name of assignee
Corporation of Delaware
Type of assignee, e.g., corporation, partnership, university, government agency, etc.

PERSON AUTHORIZED TO SIGN

- Richard Lovgren
(type name of person authorized to sign on behalf of assignee)
Vice President, General Counsel and Corporate Secretary
Title of person authorized to sign

I, the person signing below, state that I am empowered to sign this statement on behalf of the assignee.

Attorney Docket No. LAM2P131C

BASIS OF ASSIGNEE'S INTEREST

Ownership by the assignee is established as follows:

A.

- An assignment (document) separately being submitted for recordal herewith, which transfers ownership of this case from Oliver Design, Inc. to Lam Research Corporation.
- An Assignment Recordation Sheet.
- A check in the amount of \$40.00.

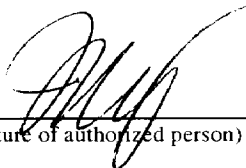
AND

B.

- A chain of title from the inventor to the current assignee as shown below:
Appendix A: U.S.P.T.O. Notice of Recordation of Assignment.
Recorded in PTO: Reel 8096, Frame 0606.

Appendix B: Assignment from Oliver David Jones to Oliver Design, Inc., a California Corporation, and Assignment Recordation Sheet.

Appendix C: Patent Assignment identifying the present patent as assigned to Lam Research Corporation, and an accompanying Assignment Recordation Sheet and fee.



(Signature of authorized person) 1/11/00
(date)

Richard Lovgren

(type or print name of authorized person)

Vice President, General Counsel and Corporate Secretary

Title of authorized person

Respectfully submitted,
MARTINE, PENILLA & KIM, LLP



Albert S. Penilla, Esq.
Reg. No. 39,487

710 Lakeway Dr., Suite 170
Sunnyvale, CA 94086
(408) 749-6900

Attorney Docket No. LAM2P131C



17-4252-4A

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
 ASSISTANT SECRETARY AND COMMISSIONER
 OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231

OCTOBER 31, 1996

PTAS
 SKJERVEN MORRILL, MACPHERSON ET AL.
 DAVID E. STEUBE
 25 METRO DRIVE, SUITE 700
 SAN JOSE, CA 95110

RECEIVED
 BY DOCKET DEPT
NOV 08 1996
 SKJERVEN MORRILL MACPHERSON
 FRANKLIN & FREEL



100260169A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/15/1996

REEL/FRAME: 8096/0606
 NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
 JONES, OLIVER DAVID

DOC DATE: 07/15/1996

ASSIGNEE:
 OLIVER DESIGN, INC.
 #5 VICTOR SQUARE
 SCOTTS VALLEY, CALIFORNIA 95066

SERIAL NUMBER: 08680739
 PATENT NUMBER:

FILING DATE: 07/15/1996
 ISSUE DATE:

MAURICE CARTER, EXAMINER
 ASSIGNMENT DIVISION
 OFFICE OF PUBLIC RECORDS

DFS

STATUS OK	7/15/96
FF OK	7/15/97
FF REMOK	4/15/97
	1/11
<i>Bb</i>	
ISS OK	7/15/96

Appendix A

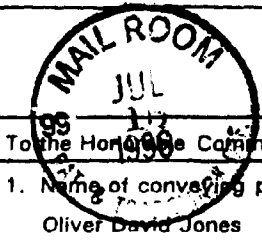
08-26-1996

18/680239 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

RECORD



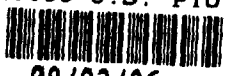
AID



To the Honorable Commissioner of Patents and Trade

100260169

documents or copy thereof.

1. Name of conveying party(ies): **5365 U.S. PTO**
 Oliver David Jones 
08/23/96

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

2. Name and address of receiving party(ies):
 Name: Oliver Design, Inc
 Internal Address: _____

 Street Address: #5 Victor Square

 City Scotts Valley State California ZIP 95066
 Additional name(s) & address(es) attached? Yes No

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: July 15, 1996

4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: July 15, 1996

A. Patent Application No.(s)
 Title: "WAFER SPIN DRYER AND METHOD OF DRYING A WAFER"

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: David E. Steuber
 Internal Address: SKJERVEN, MORRILL, MacPHERSON,
FRANKLIN & FRIEL
 Street Address: 25 METRO DRIVE, SUITE 700
 City SAN JOSE State CA ZIP 95110

6. Total number of applications and patents involved: One

7. Total fee (37 CFR 3.41): \$ 40.00
 Authorized to be charged to Deposit Account 19-2386
 Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

DO NOT USE THIS SPACE

\$ 40.00

8. 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.

David E. Steuber (Reg. No.: 25,557) David E Steuber 7/15/96
 Name of Person Signing Signature Date

Appendix A

Total number of pages comprising cover sheet: Two

SCHEDULE 1

List of Seller Patents

U.S. Patent No.	5,778,554
Title:	Wafer Spin Dryer and Method of Drying
Filing Date:	<u>July 15, 1996</u>
Serial Number:	<u>08/680,739</u>

U.S. Patent Application	Division of <u>08/680,739</u>
Title:	Cleaning Robot End-Effector, Apparatus
Filing Date:	<u>December 3, 1996</u>
Serial Number:	<u>08/757,698</u>

U.S. Patent Application	CPA of <u>08/757,698</u>
Title:	Cleaning Robot End-Effector, Apparatus
Filing Date:	<u>June 3, 1999</u>
Serial Number:	<u>08/757,698</u>

U.S. Patent Application	Division of <u>08/680,739</u>
Title:	Method of Drying a Wafer
Filing Date:	<u>January 23, 1998</u>
Serial Number:	<u>09/012,372</u>

U.S. Patent No.	5,878,507
Title:	Wafer Cleaning Apparatus
Filing Date:	<u>July 15, 1996</u>
Serial Number:	<u>08/683,654</u>

U.S. Application	CIP of <u>08/683,654</u>
Title:	Wafer Cleaning Apparatus
Filing Date:	<u>July 9, 1998</u>

23135.00070:12167438.3

Serial Number: 09/113,811

U.S. Application Division of 08/683,654

Title: Wafer Cleaning Apparatus

Filing Date: July 29, 1998

Serial Number: 09/126,021

U.S. Application Regular

Title: Brush Interflow Distributor

Filing Date: July 9, 1998

Serial Number: 09/112,666

Provision Application Pending

Title: Brush Interflow Distributor

Filing Date: July 9, 1998

Serial Number: 09/112,666

HEWM Docket No. 25356-0001 Semiconductor Wafer Polisher/Buffer for Off-Diameter
Method (Virtual Polisher)

HEWM Docket No. 25356-0002 Self-Aligning Polishing Mandrel (4 Mandrel)

HEWM Docket No. 25356-0013 Overhead Vertical Dryer and Scrubber System (4 Mandrel)

HEWM Docket No. 25356-00019PROV 60/153748 (9/13/99) Advanced CMP Process and
Apparatus

HEWM Docket No. 25356-00020 Stacked Cleaning/Drying Module Apparatus and Method
(9014)

23135.00070:12167438.3