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004.0032

Form PTO-1595

(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

102454379

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

1. Name of conveying party(ies):

Marie Mitchel
John L. Shartel, II
Yakov Epshteyn

5-13-03

2. Name and address of receiving party(ies)

Name: Novellus Systems, Inc.

Internal Address: _____

Street Address: 4000 N. First Street

City: San Jose State: CA Zip: 95134

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 04/29/03

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

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: 04/29/03

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: John A. Fisher

Internal Address: _____

Street Address: Ingrassia Fisher & Lorenz, P.C

7150 E. Camelback Road, Suite 325

City: Scottsdale State: AZ Zip: 85251

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

8. Deposit account number: _____

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9. Signature.

John A. Fisher, Reg. No. 28,505

Name of Person Signing

Signature

May 13, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

3 16 103 MAILMAN 00000060 10438030

1 17 181

40.00 DP

PATENT
 REEL: 014080 FRAME: 0311

United States Utility Patent Application
Attorney Docket No.: 004.0032
First Named Inventor: MARIE MITCHEL

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") have invented:

METHOD FOR CHEMICAL MECHANICAL PLANARIZATION (CMP) AND
CHEMICAL MECHANICAL CLEANING (CMC) OF A WORK PIECE

for which application for Letters Patent of the United States:

☒ has been executed on even date herewith;
☐ executed on _____;
☐ was filed on _____ and assigned U.S. Application Serial No. _____;

AND WHEREAS, Novellus Systems, Inc., a ☒ corporation; ☐ partnership; individual ☐ having a place of business at 4000 N. First Street, San Jose, CA 95134 (hereinafter "ASSIGNEE"), and successors, assigns, and legal representatives, is desirous of acquiring an interest therein;

AND WHEREAS, a "formal application," as referred to herein, shall mean any provisional, nonprovisional, continuation, continuation in part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT) or other patent application, inventor's certificate, or like document;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the aforesaid application, to the invention as described in the aforesaid application, and to any formal application which may be filed based in whole or in part on the aforesaid application, in the United States and all foreign countries, together with the right of priority under any international agreements to which the United States currently adheres and adheres to in the future, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND ASSIGNOR HEREBY AGREES to transfer, upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements and formal applications based thereon, growing out of or relating to the invention; and, without further remuneration, to provide all reasonable assistance and execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve

and/or acquire ASSIGNEE's full protection and title in and to the invention hereby transferred and any improvements therein,

ASSIGNOR AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of formal applications based on the invention or improvements therein, and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date(s) written below by ASSIGNOR:

Marie Mitchell
Inventor's Signature

Date: 4/29/03

MARIE MITCHEL
Inventor's Printed Name

STATE OF ARIZONA)

COUNTY OF maricopa)

On this 29th day of April, 2003, before me personally came the above named MARIE MITCHEL who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



DEBBIE SIMPSON
Notary Public – Arizona
Maricopa County
Expires 02/15/06

NOTARY PUBLIC
My Commission Expires: 2/15/06 Debbie Simpson

[Signature]
Inventor's Signature

Date: 4/29/03

JOHN L. SHARTEL, II
Inventor's Printed Name

STATE OF ARIZONA)

COUNTY OF Maricopa)

On this 29th day of April, 2003, before me personally came the above named JOHN L. SHARTEL, II who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



DEBBIE SIMPSON
Notary Public – Arizona
Maricopa County
Expires 02/15/06

NOTARY PUBLIC

My Commission Expires: 2/15/06

[Signature]

[Signature]
Inventor's Signature

Date: 4-29-03

YAKOV EPSHTEYN
Inventor's Printed Name

STATE OF ARIZONA)

COUNTY OF Maricopa)

On this 29th day of April, 2003, before me personally came the above named YAKOV EPSHTEYN who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



DEBBIE SIMPSON
Notary Public – Arizona
Maricopa County
Expires 02/15/06

NOTARY PUBLIC

My Commission Expires: 2/15/06

A handwritten signature in cursive script, appearing to read "Debbie Simpson", written over a horizontal line.