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U.S. DEPARTMENT OF COMMERCE
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Docket No. 004.0138

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PATENTS

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

6-25-05

1. Name of conveying party(ies)/Execution Date(s):

Vishwas Hardikar

Execution Date(s) June 24, 2005

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

2. Name and address of receiving party(ies)

Name: Novellus Systems, Inc.

Internal Address: _____

Street Address: 4000 N. First Street

City: San Jose

State: California

Country: USA Zip: 95134

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Ingrassia Fisher & Lorenz P.C.

Internal Address: _____

Street Address: 7150 E. Camelback Road

Suite 325

City: Scottsdale

State: Arizona Zip: 85251

Phone Number: 480 385-5060

Fax Number: 480 385-5061

Email Address: _____

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
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9. Signature:

June 28, 2005

Signature

Date

Cindy H. Kwacala

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
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PATENT
REEL: 016750 FRAME: 0162

United States Utility Patent Application
Attorney Docket No.: 004.0138
First Named Inventor: Vishwas Hardikar

ASSIGNMENT

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

COMPOSITIONS AND METHODS OF ELECTROCHEMICAL REMOVAL OF
MATERIAL FROM A BARRIER LAYER OF A WAFER

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:

Vishwas Hardikar
Inventor's Signature

Date: 06/24/05

Vishwas Hardikar
Inventor's Printed Name

STATE OF ARIZONA)

COUNTY OF Maricopa)

On this 24 day of June, 2005, before me personally came the above named Vishwas Hardikar 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.

NOTARY PUBLIC
My Commission Expires: 6/3/2005 Diane Martens Parker

