

03-15-2007

ASSIGNMENT



SHEET

103382761

Commissioner of Patents:

Please record the attached document.

1. Name of conveying party:

- a) Pramod Subramonium
- b) Yongsik Yu
- c) Zhiyuan Fang
- d) Jon Henri

2. Name and address of receiving party:

- a) Name: Novellus Systems, Inc.  
Address: 3970 North First Street  
San Jose, CA 95134

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(s): February 21, 2007

4. Application Number or Patent Number: To Be Assigned

The title of the application is: **METHODS OF DEPOSITING STABLE AND HERMETIC ASHABLE HARDMASK FILMS**

5. Please send all correspondence concerning this document to:

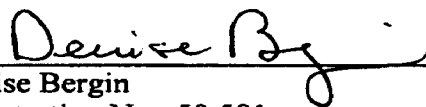
**Beyer Weaver LLP**  
**P.O. Box 70250**  
**Oakland, CA 94612-0250**  
**Customer Number: 022434**

6. Total number of applications and patents involved: 1

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

- ☒ Enclosed.
- ☐ Charge to Deposit Account No. 500388 (Order No. \_\_\_\_\_).
- ☐ Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. \_\_\_\_\_).

Date: February 22, 2007

  
Denise Bergin  
Registration No. 50,581

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

Attorney Docket No. NOVLP182/NVLS-3191

(Revised 9/03)

PATENT

REEL: 019041 FRAME: 0795

1/27/2007 SFELEK1 00000037 11710377

40.00 OP

FC:8021

## ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

### **METHODS OF DEPOSITING STABLE AND HERMETIC ASHABLE HARDMASK FILMS**

(Atty. Docket No. NOVLP182/NVLS-3191), (check one)

- ☒ for which I have executed a U.S. patent application on even date herewith. (Accompanying)  
☐ which bears U.S. application No. . (Not accompanying)  
☐ which is a U.S. provisional application. (Accompanying)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

- 1) Sell, assign and transfer to Novellus Systems, Inc., a California corporation having a place of business at 3970 North First Street, San Jose, California 95134 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue 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 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 representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

Direct Correspondence To:

Customer Number 022434

Direct Telephone Calls To:

Denise S. Bergin at telephone number (510) 663-1100

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Type-written Full Name of  
Sole or First Inventor:

Pramod Subramonium

Citizenship: Indian

Inventor's signature:



Date of Signature: 2/21/2007

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Second Inventor:

Yongsik Yu

Citizenship: Korean

Inventor's signature:



Date of Signature: 2/21/2007

Residence: (City)

Lake Oswego

(State/Country) OR/USA

Post Office Address:

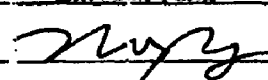
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Third Inventor:

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Citizenship: Peoples Republic of China

Inventor's signature:



Date of Signature: 2/21/2007

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West Linn

(State/Country) OR/USA

Post Office Address:

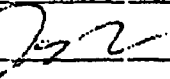
3734 Wild Rose Loop, West Linn, Oregon 97068

Fourth Inventor:

Jon Henri

Citizenship: USA

Inventor's signature:



Date of Signature: 2/21/07

Residence: (City)

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21330 Miles Drive, West Linn, Oregon 97068