

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the word Hydorgen in the title to Hydrogen previously recorded on Reel 020991 Frame 0178. Assignor(s) hereby confirms the word Hydorgen in the title be corrected to Hydrogen.

CONVEYING PARTY DATA

Name	Execution Date
Pramod Subramonium	05/20/2008
Zhiyuan Fang	05/20/2008
Jon Henri	05/20/2008

RECEIVING PARTY DATA

Name:	Novellus Systems, Inc.
Street Address:	3970 North First Street
City:	San Jose
State/Country:	CALIFORNIA
Postal Code:	95134

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12048967

CORRESPONDENCE DATA

Fax Number: (510)663-0920
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Email: djones@wavsip.com
 Correspondent Name: Weaver Austin Villeneuve & Sampson LLP
 Address Line 1: 500 12th Street
 Address Line 4: Oakland, CALIFORNIA 94607

ATTORNEY DOCKET NUMBER:	NOVLP144X1
NAME OF SUBMITTER:	Cindy H. Shu

Total Attachments: 6
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PATENT ASSIGNMENT

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**05/23/2008
 500548139**

SUBMISSION TYPE:		NEW ASSIGNMENT
NATURE OF CONVEYANCE:		ASSIGNMENT
CONVEYING PARTY DATA		
Name		Execution Date
Pramod Subramonium		05/20/2008
Zhiyuan Fang		05/20/2008
Jon Henri		05/20/2008
RECEIVING PARTY DATA		
Name:	Novellus Systems, Inc.	
Street Address:	3970 North First Street	
City:	San Jose	
State/Country:	CALIFORNIA	
Postal Code:	95134	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	12048967	
CORRESPONDENCE DATA		
Fax Number:	(510)663-1100	
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>		
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Correspondent Name:	Weaver Austin Villeneuve & Sampson LLP	
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Address Line 4:	Oakland, CALIFORNIA 94607	
ATTORNEY DOCKET NUMBER:	NOVLP144X1	
NAME OF SUBMITTER:	Cindy H. Shu	
Total Attachments: 2		
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CH \$40.00 12048967

Address Line 1: 500 12th Street, Suite 200 Address Line 4: Oakland, CALIFORNIA 94607	
ATTORNEY DOCKET NUMBER:	NOVLP144X1
NAME OF SUBMITTER:	Cindy H. Shu
Signature:	/Cindy H. Shu/
Date:	05/23/2008
Total Attachments: 2 source=NOVLP144X1_Assignment#page1.tif source=NOVLP144X1_Assignment#page2.tif	
RECEIPT INFORMATION EPAS ID: PAT561009 Receipt Date: 05/23/2008 Fee Amount: \$40	

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PATENT

ASSIGNMENT OF PATENT APPLICATION

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

PULSED PECVD METHOD FOR MODULATING HYDROGEN CONTENT IN HARD MASK

(Atty. Docket No. NOVLP144X1/NVLS-3102C1), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
- which bears U.S. application No.12/048,967. (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.

1. Inventor Signature: Pramod
Pramod Subramonium

Date: 5/20/2008

State of Oregon)
County of Washington) ss.

On this 20th day of May, in the year 2008, before me, Laura L. Johnson, Notary Public, personally appeared Pramod Subramonium, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature Laura L. Johnson



2. Inventor Signature: Zhiyuan Fang
Zhiyuan Fang

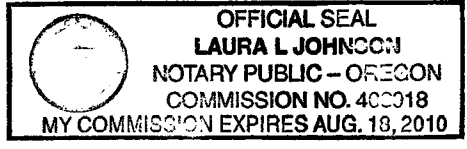
Date: 5/20/2008

State of Oregon)
County of Washington) ss.

On this 20th day of May, in the year 2008, before me, Laura L. Johnson, Notary Public, personally appeared Zhiyuan Fang, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature Laura L. Johnson



3. Inventor Signature: Jon Henri
Jon Henri

Date: 5/20/08

State of Oregon)
County of Washington) ss.

On this 20th day of May, in the year 2008, before me, Laura L. Johnson, Notary Public, personally appeared Jon Henri, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature Laura L. Johnson

