PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Steven T. Mayer	03/12/2009
Vijay Bhaskaran	03/23/2009
Evan E. Patton	03/10/2009
Robert L. Jackson	01/15/2010
Jonathan Reid	03/30/2009

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:	11228712

CORRESPONDENCE DATA

Fax Number: (510)663-0920

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (510) 663-1100 Email: rberman@wavsip.com

Correspondent Name: Weaver Austin Villeneuve & Sampson LLP

Address Line 1: P.O. Box 70250

Address Line 4: Oakland, CALIFORNIA 94612-0250

ATTORNEY DOCKET NUMBER:	NOVLP081D1C1/NVLS2261D1C1	
NAME OF SUBMITTER:	Jeffrey K. Weaver	

PATENT REEL: 023819 FRAME: 0182 \$40.00 1122

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Total Attachments: 12 source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page1.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page2.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page3.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page4.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page5.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page6.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page7.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page8.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page9.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page10.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page11.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page11.tif source=NOVLP081D1C1_NVLS_2261D1C1_Assignment_EXECUTED#page12.tif

ASSIGNMENT OF PATENT APPLICATION

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

PROCESS FOR ELECTROPLATING METALS INTO MICROSCOPIC RECESSED FEATURES

(Atty. I	Docket No. NOVLP081D1C1/NVLS-2261D1C1),
	for which I have executed a U.S. patent application on even date herewith. (Accompanying) which bears U.S. Application No.11/228,712. (Not accompanying) which is a U.S. provisional application. (Accompanying)
	For good and valuable consideration, the receipt and sufficiency of which is hereby

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

- 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, including U.S. Application No. 09/716,016, filed November 16, 2000, now U.S. Patent No. 6,946,065, issued September 20, 2005; U.S. Application No. 09/410,170, filed September 30, 1999, now abandoned; and U.S. Provisional Application No. 60/105,699, filed October 26, 1998.
- 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: Steven T. Mayer Date: 3/12/2008
State of Oregon)
County of Washington ss.
On 3/12/2009 before me, Panela Lo Jefferson, personally appeared Steven T. Mayer
, who 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. I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
OFFICIAL SEAL. PAMIELA JO JEFFERSON NOTARY PUBLIC - OREGON COMMISSION NO. 436585 MY COMMISSION EXPIRES FEBRUARY 11, 2013
2. Inventor Signature: Date:
State of Oregon) ss. County of)
On before me,, personally appeared
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.
I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
Signature

3. Inventor Signature: Evan E. Patto. Date: 10 March 1009
State of Oregon)
County of Washington ss.
On 3110/2009 before me, Pamela Lo Jefferson, personally appeared Evan E. Patton
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.
I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing paragraph is true and correct.
WITNESS my hand and official seal. OFFICIAL SEAL PAMELA JO JEFFERSON NOTARY PUBLIC - OREGON COMMISSION NO. 436585
Signature Pamela to Jefferson MY COMMISSION EXPIRES FEBRUARY 11, 2013
4. Inventor Signature: Date: Robert L. Jackson
State of Oregon)
County of) ss.
On
personally appeared
personally appeared, who
personally appeared
personally appeared, who 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
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5. Inventor Signature: fonth Pul Date: 3/30/09 Jonathan Reid
State of Oregon County of Washington On 3/30/2009 before me, Amela Jo Jefferson, personally appeared Jonathan Reid
, who 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. I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing
paragraph is true and correct. WITNESS my hand and official seal.
Signature Town of Julian Official SEAL PAMELA JO JEFFERSON NOTARY PUBLIC - OREGON COMMISSION NO. 436565 AV COMMISSION EXPIRES FEBRUARY 11, 2013

ASSIGNMENT OF PATENT APPLICATION

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

PROCESS FOR ELECTROPLATING METALS INTO MICROSCOPIC RECESSED FEATURES

(Atty. I	Docket No. NOVLP081D1C1/NVLS-2261D1C1),
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	For good and valuable consideration, the receipt and sufficiency of which is hereby

- 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, including U.S. Application No. 09/716,016, filed November 16, 2000, now U.S. Patent No. 6,946,065, issued September 20, 2005; U.S. Application No. 09/410,170, filed September 30, 1999, now abandoned; and U.S. Provisional Application No. 60/105,699, filed October 26, 1998.
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- 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.

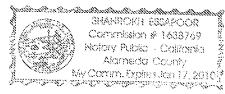
Signed on the date indicated beside my signature.

1. Inventor Signature:	Date:
Steven T. Mayer	
State of Oregon)	ss.
County of	
On before me, personally appeared	
proved to me on the basis of satisfactory evidence to subscribed to the within instrument and acknowledghis/her/their authorized capacity(ies), and that by his person(s), or the entity upon behalf of which the per I certify under PENALTY OF PERJURY under the	ged to me that he/she/they executed the same in s/her/their signature(s) on the instrument the son(s) acted, executed the instrument.
paragraph is true and correct.	laws of the State of Oregon that the foregoing
WITNESS my hand and official seal.	
Signature	-
2. Inventor Signature: Vijay Bhaskaran	Date: 3 · 2 3 · 2009
State of Oregon)	
County of Alameda	SS.
On 3-23-09 before me,personally appeared	attention essapoor Notary public
personally appeared Vijay Bhaskala	.n
proved to me on the basis of satisfactory evidence to subscribed to the within instrument and acknowledghis/her/their authorized capacity(ies), and that by his person(s), or the entity upon behalf of which the person certify under PENALTY OF PERJURY under the paragraph is true and correct.	ed to me that he/she/they executed the same in /her/their signature(s) on the instrument the son(s) acted, executed the instrument.

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Signature _____



3. Inventor Signature:				Date:	
	Evan E. Patton				
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4. Inventor Signature:	Robert L. Jackson			Date:	
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5. Inventor Signature:			Date:			
_	Jonathan Reid					
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Signed on the date indicated beside my signature.

1. Inventor Signature:			Date:	
Steven T. Mayer				
State of Oregon)			
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2. Inventor Signature :			Date:	
State of Oregon)			
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WITNESS my hand and official seal.				
Signature				

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3. Inventor Signature:	Date:
Evan E. Patton	
State of Oregon)	
County of)	SS.
On before me,	
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I certify under PENALTY OF PERJURY under the paragraph is true and correct.	e laws of the State of Oregon that the foregoing
WITNESS my hand and official seal.	
Signature	
4. Inventor Signature: Robert L. Jackson	Date: Jan. 25, 2020
State of Oregon California)	SS.
County of Sonoma	
On Jan. 15 Acre before me, Graphersonally appeared Robert L. Jack	L. Meszio, Notary Public,
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WITNESS my hand and official seal.	
	CARA L. MENZIO Commission # 1655600 Notice Public College of A
Signature 1	Notary Public - California & Sonoma County My Comm. Expires Apr 28, 2010

5. Inventor Signature:			Date:	
Jonatha				
State of Oregon)			
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