

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Anand Chandrashekar</td> <td>07/27/2009</td> </tr> <tr> <td>Raashina Humayun</td> <td>07/27/2009</td> </tr> <tr> <td>Michal Danek</td> <td>07/29/2009</td> </tr> <tr> <td>Aaron R. Fellis</td> <td>07/30/2009</td> </tr> <tr> <td>Sean Chang</td> <td>07/29/2009</td> </tr> </tbody> </table>		Name	Execution Date	Anand Chandrashekar	07/27/2009	Raashina Humayun	07/27/2009	Michal Danek	07/29/2009	Aaron R. Fellis	07/30/2009	Sean Chang	07/29/2009
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Novellus Systems, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>3970 North First Street</td> </tr> <tr> <td>City:</td> <td>San Jose</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95134</td> </tr> </table>		Name:	Novellus Systems, Inc.	Street Address:	3970 North First Street	City:	San Jose	State/Country:	CALIFORNIA	Postal Code:	95134		
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CORRESPONDENCE DATA													
<p>Fax Number: (510)663-0920 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 510-663-1100 Email: mterry@wavsip.com Correspondent Name: Weaver Austin Villeneuve & Sampson LLP Address Line 1: P.O. Box 70250 Address Line 4: Oakland, CALIFORNIA 94612-0250</p>													
ATTORNEY DOCKET NUMBER:	NOVLP316												
NAME OF SUBMITTER:	Vlad Gusev												

CH \$40.00 12534566

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PATENT
REEL: 023099 FRAME: 0084

Total Attachments: 4

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ASSIGNMENT OF PATENT APPLICATION

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

DEPOSITING TUNGSTEN INTO HIGH ASPECT RATIO FEATURES

(Atty. Docket No. NOVLP315/NVLS-3463), (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.

1. Inventor Signature:

C. Anand
Anand Chandrashekar

Date: 07/27/2009

State of California)

County of SANTA CLARA)

ss.

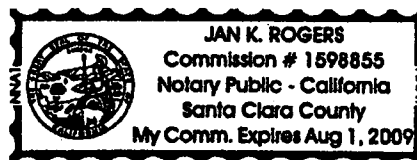
On JULY 27, 2009 before me, JAN K. ROGERS, NOTARY PUBLIC personally appeared Anand Chandrashekar, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their 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 CALIFORNIA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Jan K. Rogers



2. Inventor Signature:

Raashina Humayun
Raashina Humayun

Date: 7/27/09

State of California)

County of SANTA CLARA)

ss.

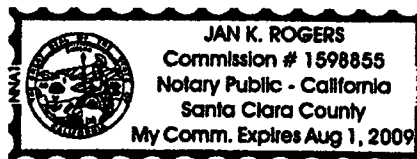
On July 27, 2009 before me, JAN K. ROGERS, NOTARY PUBLIC personally appeared Raashina Humayun, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their 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.

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WITNESS my hand and official seal.

Signature

Jan K. Rogers



3. Inventor Signature:

Michal Danek

Date:

7/29/09

State of California)

County of

Santa Clara

SS.

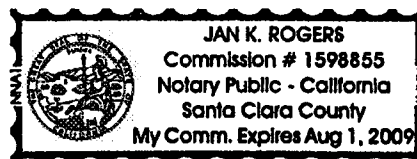
On July 29, 2009 before me, Jan K. Rogers, Notary Public, personally appeared Michal Danek, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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 California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Jan K. Rogers



4. Inventor Signature:

Aaron R. Fellis

Date:

7.30.09

State of California)

County of

Santa Clara

SS.

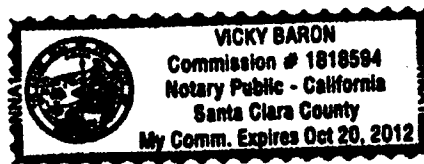
On July 30, 2009 before me, Vicky Baron, Notary, personally appeared Aaron R. Fellis, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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 California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Vicky Baron



5. Inventor Signature:

Sean Chang
Sean Chang

Date:

7/29/09

State of California)

County of

Santa Clara

)
SS.

On July 29, 2009 before me, JAN K. ROGERS, NOTARY PUBLIC personally appeared Sean Chang, 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 CALIFORNIA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

JAN K. ROGERS

