

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jeffrey Womack</td> <td>01/09/2013</td> </tr> <tr> <td>Stephen Lau</td> <td>01/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jeffrey Womack	01/09/2013	Stephen Lau	01/10/2013
Name	Execution Date						
Jeffrey Womack	01/09/2013						
Stephen Lau	01/10/2013						
RECEIVING PARTY DATA							
Name:	Novellus Systems, Inc.						
Street Address:	4650 Cushing Parkway						
City:	Fremont						
State/Country:	CALIFORNIA						
Postal Code:	94538						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13667282</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13667282		
Property Type	Number						
Application Number:	13667282						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Sheila Martinez-Lemke						
Total Attachments: 2 source=NVLS003692_LAMRP006_Signed_Assignment#page1.tif source=NVLS003692_LAMRP006_Signed_Assignment#page2.tif							

CH \$40.00 13667282

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned named inventor, possess the right, title and interest for and in the Invention(s) as set forth in the patent application entitled: FLOW BALANCING IN GAS DISTRIBUTION NETWORKS (Atty. Docket No. LAMRP006/ NVLS003692), and

(1) for which I have executed a U.S. patent application;

AND/OR

(2) the same having been filed on (November 2, 2012) as Application No. (13/667,282);

OR


(3) which is a U.S. Provisional Patent Application filed on () as Application No. ();

in connection with which I hereby authorize and request the assignee's attorneys associated with Customer Number 83422 to insert within the foregoing parentheses the filing date and/or Application No. of said application when known.

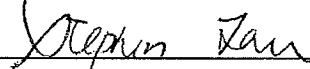
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned named inventor, hereby:

- 1) Sell, assign and transfer to **Novellus Systems, Inc.**, a California corporation having a place of business at, 4650 Cushing Parkway, Fremont, California 94538 ("ASSIGNEE"), the entire right, title and interest in the above-referenced application including any and all improvements and inventions disclosed therein, and in applications based upon, and patents (including foreign patents and the right to claim priority) granted upon, the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters 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 representative, and shall be binding upon the named inventor, as well as the named 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.

Signed on the date indicated beside my signature.

1) Signature: 
Typed Name: Jeffrey Womack

Date: 1/9/13

2) Signature: 
Typed Name: Stephen Lau

Date: 10 Jan 2013