PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Santosh Kumar	04/12/2013
Bryan L. Buckalew	04/12/2013
Steven T. Mayer	04/10/2013
Thomas Ponnuswamy	04/11/2013
Chad Michael Hosack	04/12/2013
Robert Rash	04/12/2013
Lee Peng Chua	04/12/2013
David Porter	04/11/2013

RECEIVING PARTY DATA

Name:	Novellus Systems, Inc.	
Street Address:	4650 Cushing Parkway	
City:	Fremont	
State/Country:	CALIFORNIA	
Postal Code:	94538	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13852767	

CORRESPONDENCE DATA

Fax Number:

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

Email: aperic@wavsip.com Correspondent Name: Stephen J. Cotton

Address Line 1: 555 12th Street, Suite 1700 Oakland, CALIFORNIA 94607 Address Line 4:

ATTORNEY DOCKET NUMBER: NOVLP456

> **PATENT** REEL: 030330 FRAME: 0414

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NAME OF SUBMITTER:	Stephen J. Cotton		
Signature:	/Stephen J. Cotton/		
Date:	05/01/2013		
	This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 2 source=NVLS003728_NOVLP456_Assignment#page1.tif source=NVLS003728_NOVLP456_Assignment#page2.tif			

PATENT REEL: 030330 FRAME: 0415

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: METHODS AND SYSTEMS FOR CLEANING ELECTROPLATING SUBSTRATE HOLDERS (NVLS003728/NOVLP456), and

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, CA 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.

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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:	Santosh Kumar	Date: 4/12/13
2)	Signature: Typed Name:	Bryan L. Buckalew	Date: 4/12/13
3)	Signature: Typed Name:	Steven T. Mayer	Date: 4/10/13
4)	Signature: Typed Name:	Thomas Ponnuswamy	Date: 4/11//3
5)	Signature: Typed Name:	Chad Michael Hosack	Date: 4/12/13
6)	Signature: Typed Name:	Robert Rash	Date: 4/12/13
7)	Signature: Typed Name:	Lee Peng Chua	Date: $\frac{4/12/13}{}$
	P		· / /

8)

Signature: Typed Name:

David Porter