PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Juwen Gao	09/21/2011
Rajkumar Jakkaraju	09/23/2011
Michal Danek	09/21/2011
Wei Lei	09/21/2011

RECEIVING PARTY DATA

Name:	Novellus Systems, Inc.	
Street Address:	Street Address: 4000 N. First Street	
City:	San Jose	
State/Country:	State/Country: CALIFORNIA	
Postal Code: 95134		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13242160	

CORRESPONDENCE DATA

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Mail.

Correspondent Name: Harness, Dickey & Pierce, P.L.C.

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Address Line 4: Bloomfield Hills, MICHIGAN 48303

ATTORNEY DOCKET NUMBER: NVLS003604

NAME OF SUBMITTER: Michael D. Wiggins

Total Attachments: 3

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PATENT REEL: 027175 FRAME: 0131 00 1324216

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ASSIGNMENT

Atty. Docket No. NVLS003604

The undersigned, hereinafter referred to collectively as Assignor, has an interest in the invention entitled:

SYSTEMS AND METHODS FOR SELECTIVE TUNGSTEN DEPOSITION IN VIAS

which is the subject of a United States or International application for patent

(a)	Ø	 executed on even date preparatory to filing (each inventor should sign to Assignment on the same day as he/she signs the Declaration and Powel Attorney); 	
(b)		executed on,;	
(c)		filed on, and assigned Serial No or PCT International Application No;	
(d)		U.S. Patent No, issued, and, presently assigned as evidenced at Reel, Frame; or	
(e)		entitled above and naming the undersigned inventors in this provisional patent application; and	

Novellus Systems Inc. having a business address at 4000 N. First Street, San Jose, California 95134, hereinafter referred to as Assignee, is desirous of acquiring Assignor's interest therein:

NOW. THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, reexamination, or extension thereof, and for litigation regarding, or for the purpose of protecting title to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to Issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

PATENT REEL: 027175 FRAME: 0132

ASSIGNMENT

Juwen Gao	09/21/2011 Date
Rajkumar Jakkaraju	Date
2 R	9/11/2011
Michal Danek	Date 09(21/231)
Wei Lei	Date

ASSIGNMENT

Juwen Gao	Date
Rajkumar Jakkaraju	
Michal Danek	Date
Wei Lei	Date

PATENT REEL: 027175 FRAME: 0134

RECORDED: 11/04/2011