

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT								
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT								
<b>CONVEYING PARTY DATA</b>									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Fergal O'MOORE</td> <td>06/21/2007</td> </tr> <tr> <td>Steve SCHULTZ</td> <td>06/18/2007</td> </tr> <tr> <td>Brian SEVERSON</td> <td>06/18/2007</td> </tr> </tbody> </table>		Name	Execution Date	Fergal O'MOORE	06/21/2007	Steve SCHULTZ	06/18/2007	Brian SEVERSON	06/18/2007
Name	Execution Date								
Fergal O'MOORE	06/21/2007								
Steve SCHULTZ	06/18/2007								
Brian SEVERSON	06/18/2007								
<b>RECEIVING PARTY DATA</b>									
<b>Name:</b>	NOVELLUS SYSTEMS, INC.								
<b>Street Address:</b>	4000 N. First Street								
<b>City:</b>	San Jose								
<b>State/Country:</b>	CALIFORNIA								
<b>Postal Code:</b>	95134								
<b>PROPERTY NUMBERS Total: 1</b>									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11768045</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11768045				
Property Type	Number								
Application Number:	11768045								
<b>CORRESPONDENCE DATA</b>									
<b>Fax Number:</b>	(480)385-5061								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
<b>Phone:</b>	480.385.5060								
<b>Email:</b>	scastillo@ifllaw.com								
<b>Correspondent Name:</b>	INGRASSIA FISHER & LORENZ								
<b>Address Line 1:</b>	7150 E. Camelback Rd., Suite 325								
<b>Address Line 4:</b>	Scottsdale, ARIZONA 85251								
<b>ATTORNEY DOCKET NUMBER:</b>	004.0218 (NVLS 3272)								
<b>NAME OF SUBMITTER:</b>	Deborah K. Henscheid								

Total Attachments: 8  
 source=0040218\_Assignment#page1.tif  
 source=0040218\_Assignment#page2.tif

**CH \$40.00 11768045**

source=0040218\_Assignment#page3.tif  
source=0040218\_Assignment#page4.tif  
source=0040218\_Assignment#page5.tif  
source=0040218\_Assignment#page6.tif  
source=0040218\_Assignment#page7.tif  
source=0040218\_Assignment#page8.tif

United States Utility Patent Application  
Attorney Docket No.: 004.0218 (NVLS 3272)  
First Named Inventor: Fergal O'Moore

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") have invented:

**CMP APPARATUSES WITH POLISHING ASSEMBLIES THAT PROVIDE FOR THE  
PASSIVE REMOVAL OF SLURRY**

for which application for Letters Patent of the United States:

- has been executed on even date herewith;
- executed on \_\_\_\_\_;
- was filed on 6/25/07 and assigned U.S. Application Serial No. 11/768,045 ;

**AND WHEREAS**, Novellus Systems, Inc., a corporation, having a place of business at 4000 N. First Street, San Jose, CA 95134 (hereinafter "ASSIGNEE"), and successors, assigns, and legal representatives, is desirous of acquiring an interest therein;

**AND WHEREAS**, a "formal application," as referred to herein, shall mean any provisional, nonprovisional, continuation, continuation in part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT) or other patent application, inventor's certificate, or like document;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the aforesaid application, to the invention as described in the aforesaid application, and to any formal application which may be filed based in whole or in part on the aforesaid application, in the United States and all foreign countries, together with the right of priority under any international agreements to which the United States currently adheres and adheres to in the future, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

**AND ASSIGNOR HEREBY AGREES** to transfer, upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements and formal applications based thereon, growing out of or relating to the invention; and, without further remuneration, to provide all reasonable assistance and execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve and/or acquire ASSIGNEE's full protection and title in and to the invention hereby transferred and any improvements therein,

AND ASSIGNOR authorizes ASSIGNEE, its successors, assigns, and legal representatives, or anyone it may properly designate, to insert in this instrument the filing date and/or serial number of said application when ascertained;

ASSIGNOR AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of formal applications based on the invention or improvements therein, and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date(s) written below by ASSIGNOR:

*Fergal O'Moore*

6/21/07

*Fergal O'Moore*  
\_\_\_\_\_  
Inventor's Signature

Date: ~~6/19/07~~ *Tom*

Fergal O'Moore  
Inventor's Printed Name

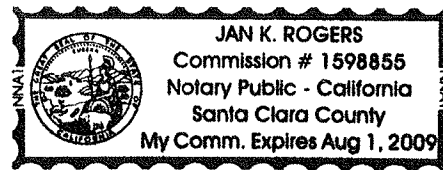
STATE OF CALIFORNIA )

COUNTY OF SANTA CLARA )

On this 21<sup>st</sup> day of JUNE, 2007, before me personally came the above named Fergal O'Moore who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/~~she~~ executed the same of his/~~her~~ own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: *JAN K. ROGERS*  
8-01-09



\_\_\_\_\_  
Inventor's Signature

Date: \_\_\_\_\_

Steve Schultz  
\_\_\_\_\_  
Inventor's Printed Name

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally came the above named Steve Schultz who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC  
My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature

Date: \_\_\_\_\_

Brian Severson  
\_\_\_\_\_  
Inventor's Printed Name

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally came the above named Brian Severson who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC  
My Commission Expires: \_\_\_\_\_

United States Utility Patent Application  
Attorney Docket No.: 004.0218 (NVLS 3272)  
First Named Inventor: Fergal O'Moore

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") have invented:

**CMP APPARATUSES WITH POLISHING ASSEMBLIES THAT PROVIDE FOR THE PASSIVE REMOVAL OF SLURRY**

for which application for Letters Patent of the United States:

- has been executed on even date herewith;
- executed on \_\_\_\_\_;
- was filed on 6/25/07 and assigned U.S. Application Serial No. 11/768,045 ;

**AND WHEREAS**, Novellus Systems, Inc., a corporation, having a place of business at 4000 N. First Street, San Jose, CA 95134 (hereinafter "ASSIGNEE"), and successors, assigns, and legal representatives, is desirous of acquiring an interest therein;

**AND WHEREAS**, a "formal application," as referred to herein, shall mean any provisional, nonprovisional, continuation, continuation in part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT) or other patent application, inventor's certificate, or like document;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the aforesaid application, to the invention as described in the aforesaid application, and to any formal application which may be filed based in whole or in part on the aforesaid application, in the United States and all foreign countries, together with the right of priority under any international agreements to which the United States currently adheres and adheres to in the future, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

**AND ASSIGNOR HEREBY AGREES** to transfer, upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements and formal applications based thereon, growing out of or relating to the invention; and, without further remuneration, to provide all reasonable assistance and execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve and/or acquire ASSIGNEE's full protection and title in and to the invention hereby transferred and any improvements therein,

**AND ASSIGNOR** authorizes **ASSIGNEE**, its successors, assigns, and legal representatives, or anyone it may properly designate, to insert in this instrument the filing date and/or serial number of said application when ascertained;

**ASSIGNOR AGREEING, FURTHERMORE**, upon request of **ASSIGNEE**, and without further remuneration, to execute any and all papers desired by **ASSIGNEE** for the filing and granting of formal applications based on the invention or improvements therein, and the perfecting of title thereto in **ASSIGNEE**.

**EXECUTED** as of the date(s) written below by **ASSIGNOR**:

\_\_\_\_\_  
Inventor's Signature

Date: \_\_\_\_\_

Fergal O'Moore  
\_\_\_\_\_  
Inventor's Printed Name

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally came the above named Fergal O'Moore who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC  
My Commission Expires: \_\_\_\_\_



Steve C. Schultz  
Inventor's Signature

Date: 6/18/07

Steve Schultz  
Inventor's Printed Name

STATE OF Arizona )

COUNTY OF Maricopa )

On this 18 day of June, 2007, before me personally came the above named Steve Schultz who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Diane Martens Parker

NOTARY PUBLIC

My Commission Expires: June 3, 2008



Brian Severson  
Inventor's Signature

Date: 6/18/07

Brian Severson  
Inventor's Printed Name

STATE OF Arizona )

COUNTY OF Maricopa )

On this 18 day of June, 2007, before me personally came the above named Brian Severson who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC Diane Martens Parker  
My Commission Expires: June 3, 2008

