

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Ananda K. Bandyopadhyay</td><td>04/12/2004</td></tr><tr><td>Seon-Mee Cho</td><td>04/12/2004</td></tr><tr><td>Haiying Fu</td><td>04/12/2004</td></tr><tr><td>Easwar Srinivasan</td><td>04/06/2004</td></tr><tr><td>David Mordo</td><td>04/13/2004</td></tr></tbody></table>		Name	Execution Date	Ananda K. Bandyopadhyay	04/12/2004	Seon-Mee Cho	04/12/2004	Haiying Fu	04/12/2004	Easwar Srinivasan	04/06/2004	David Mordo	04/13/2004
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RECEIVING PARTY DATA													
<table border="1"><tr><td>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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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number: (510)663-0920 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 5106631100													
Email: lervin@wavsip.com													
Correspondent Name: Denise Bergin/WAVS LLP													
Address Line 1: P.O. Box 70250													
Address Line 4: Oakland, CALIFORNIA 94612-0250													
ATTORNEY DOCKET NUMBER:	NOVLP088C1-NVLS-2882C1												
NAME OF SUBMITTER:	Denise Bergin												

CH \$40.00 11824049

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PATENT
REEL: 023128 FRAME: 0386

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:

METHOD TO IMPROVE MECHANICAL STRENGTH OF LOW-K DIELECTRIC FILM USING MODULATED UV EXPOSURE.

(Atty. Docket No. NOVLP088/NVLS-002882), (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: _____

Ananda K. Bandyopadhyay

Date: 04/12/04

State of Oregon)

County of Washington)

SS.

On this 12 day of April, in the year 2004, before me, Laura L. Johnson, Notary Public, personally appeared Ananda K. Bandyopadhyay, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature _____



2. Inventor Signature: _____

Seon-Mee Cho

Date: 04/12/04

State of Oregon)

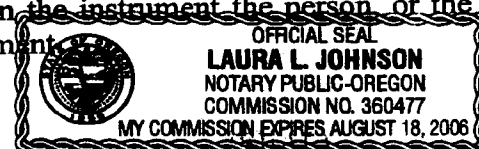
County of Washington)

SS.

On this 12 day of April, in the year 2004, before me, Laura L. Johnson, Notary Public personally appeared Seon-Mee Cho, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature _____



3. Inventor Signature: _____

Haiying Fu

Date: 04/12/04

State of Oregon)

County of Washington)

SS.

On this 12 day of April, in the year 2004, before me, Laura L. Johnson, Notary Public, personally appeared Haiying Fu, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature _____



WITNESS my hand and official seal.

Notary Signature *Laura L. Johnson*

4. Inventor Signature: *Easwar. S*
Easwar Srinivasan

Date: *6th April, 2004*

State of Oregon)

County of *Washington*) ss.

On this *6* day of *April*, in the year 200*4*, before me, *Laura L. Johnson*, Notary Public, personally appeared Easwar Srinivasan, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature *Laura L. Johnson*



5. Inventor Signature: _____
David Mordo

Date: _____

State of California)

County of _____) ss.

On this _____ day of _____, in the year 200__, before me, _____, Notary Public, personally appeared David Mordo, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature _____

4. Inventor Signature: _____
Easwar Srinivasan

Date: _____

State of Oregon)
County of _____) ss.

On this _____ day of _____, in the year 200__, before me, _____, Notary Public, personally appeared Easwar Srinivasan, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.

Notary Signature _____

(SEAL)

5. Inventor Signature: David Mordo
David Mordo

Date: 4.13.04

State of California)
County of Santa Clara) ss.

On this 13th day of April, in the year 2004, before me, _____, Notary Public, personally appeared David Mordo, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.

Notary Signature Celia Buchinski

