

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Henner Meinhold</td><td>08/28/2008</td></tr><tr><td>Dan M. Doble</td><td>09/02/2008</td></tr><tr><td>Stephen Lau</td><td>09/03/2008</td></tr><tr><td>Vince Wilson</td><td>09/03/2008</td></tr><tr><td>Easwar Srinivasan</td><td>09/03/2008</td></tr></tbody></table>	Name	Execution Date	Henner Meinhold	08/28/2008	Dan M. Doble	09/02/2008	Stephen Lau	09/03/2008	Vince Wilson	09/03/2008	Easwar Srinivasan	09/03/2008	
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Vince Wilson	09/03/2008												
Easwar Srinivasan	09/03/2008												
RECEIVING PARTY DATA													
Name:	Novellus Systems, Inc.												
Street Address:	3970 North First Street												
City:	San Jose												
State/Country:	CALIFORNIA												
Postal Code:	95134												
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>12181927</td></tr></tbody></table>	Property Type	Number	Application Number:	12181927									
Property Type	Number												
Application Number:	12181927												
CORRESPONDENCE DATA													
Fax Number:	(510)663-0920												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Email:	djones@wavsip.com												
Correspondent Name:	Weaver Austin Villeneuve & Sampson LLP												
Address Line 1:	500 12th Street, Suite 200												
Address Line 4:	Oakland, CALIFORNIA 94607												
ATTORNEY DOCKET NUMBER:	NOVLP246X1/NVLS-3344C1												
NAME OF SUBMITTER:	Cindy H. Shu												
Total Attachments: 8 source=NOVLP246X1_Assignment#page1.tif													

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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:

TEMPERATURE CONTROLLED SHOWERHEAD

(Atty. Docket No. NOVLP246X1/NVLS-3344C1), (check one)

- ☐ for which I have executed a U.S. patent application on even date herewith. (Accompanying)
- ☒ which bears U.S. application No. 12/181,927 . (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: *[Signature]*
Henner Meinhold

Date: 8/28/2008

State of Oregon)
~~California~~)
County of Washington) ss.

On this 28th day of August, in the year 2008, before me,
Laura L. Johnson, Notary Public, personally appeared Henner Meinhold, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature *[Signature]*



2. Inventor Signature: _____
Dan M. Doble

Date: _____

State of Massachusetts)
County of _____) ss.

On this _____ day of _____, in the year 2008 before me,
_____, Notary Public personally appeared Dan Doble, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Massachusetts that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature _____

(SEAL)

3. Inventor Signature: Stephen Lau
Stephen Lau

Date: 9/3/08

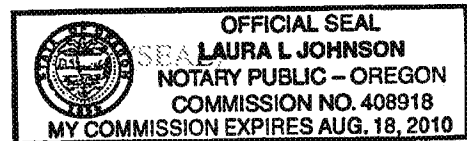
State of Oregon)
County of Washington) SS.

On this 3rd day of September, in the year 2008 before me, Laura L. Johnson, Notary Public personally appeared Stephen Lau, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature Laura L. Johnson



4. Inventor Signature: Vince Wilson
Vince Wilson

Date: 9-3-08

State of Oregon)
County of Washington) SS.

On this 3rd day of September, in the year 2008 before me, Laura Johnson, Notary Public personally appeared Vince Wilson, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature Laura L. Johnson



5. Inventor Signature: Easwar S
Easwar Srinivasan

Date: Sept 3rd, 2008

State of Oregon)
County of Washington) ss.

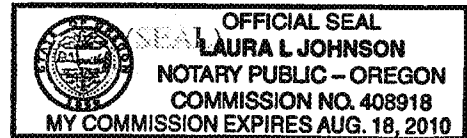
On this 3rd day of September, in the year 2008 before me,
Laura L. Johnson Notary Public personally appeared Easwar Srinivasan, who proved to me
on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the
within instrument and acknowledged to me that he/she/they executed the same in his/her/their
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the
entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

Laura L. Johnson



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- 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: _____ Date: _____
Henner Meinhold

State of California)
) ss.
County of _____)

On this _____ day of _____, in the year 2008, before me,
_____, Notary Public, personally appeared Henner Meinhold, who proved
to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the
within instrument and acknowledged to me that he/she/they executed the same in his/her/their
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the
entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature _____ (SEAL)

2. Inventor Signature: Dan Doble Date: 09/02/2008
Dan M. Doble

State of Massachusetts)
) ss.
County of Middlesex)

On this 2nd day of September, in the year 2008 before me,
Elaine Rowe, Notary Public personally appeared Dan Doble, who proved to me on
the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within
instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized
capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Massachusetts that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature Elaine M. Rowe (SEAL)
NOTARY EXPIRES OCT. 3, 2014

3. **Inventor Signature:** _____

Date: _____

Stephen Lau

State of Oregon)

)

ss.

County of _____)

On this _____ day of _____, in the year 2008 before me, _____, Notary Public personally appeared Stephen Lau, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(SEAL)

Notary Signature _____

4. **Inventor Signature:** _____

Date: _____

Vince Wilson

State of Oregon)

)

ss.

County of _____)

On this _____ day of _____, in the year 2008 before me, _____, Notary Public personally appeared Vince Wilson, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(SEAL)

Notary Signature _____

5. Inventor Signature: _____

Easwar Srinivasan

Date: _____

State of Oregon)

)

ss.

County of _____)

On this _____ day of _____, in the year 2008 before me,
_____, Notary Public personally appeared Easwar Srinivasan, who proved to me
on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the
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paragraph is true and correct.

WITNESS my hand and official seal.

(SEAL)

Notary Signature _____