

**ASSIGNMENT RECORDATION COVER SHEET
-PATENTS ONLY-**

Commissioner of Patents:

Please record the attached document.

1. Name of conveying party:
- | | |
|----------------------------|-----------------------|
| a) George D. Papasouliotis | d) Mihai Buretea |
| b) Seon-Mee Cho | e) Dennis M. Hausmann |
| c) Ron Rulkens | f) Michael Barnes |

2. Name and address of receiving party:
- a) Name: Novellus Systems, Inc.
 Address: 3970 North First Street
 San Jose, California 95134

3. Nature of conveyance:
- | | |
|--|--|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> License Agreement |

Execution Date:

- | | |
|---------------------|---------------------|
| a) January 24, 2006 | d) January 24, 2006 |
| b) January 24, 2006 | e) January 27, 2006 |
| c) January 24, 2006 | f) May 9, 2006 |

4. Application Number or Patent Number: 11/318,268

The title of the application is: METAL-FREE CATALYSTS FOR PULSED DEPOSITION LAYER PROCESS FOR CONFORMAL SILICA LAMINATES

5. Please send all correspondence concerning this document to:

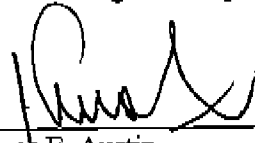
**Beyer Weaver & Thomas, LLP
P.O. Box 70250
Oakland, CA 94612-0250
Customer Number: 022434**

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- Enclosed.
 Charge to Deposit Account No. 500388 (Order No. NOVLP147).
 Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. NOVLP147).

Date: May 12, 2006



 James E. Austin
 Registration No. 39,489

Total number of pages including this cover sheet, attachments and documents: 16

CH \$40.00 500388 11318268

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

METAL-FREE CATALYSTS FOR PULSED DEPOSITION LAYER PROCESS FOR CONFORMAL SILICA LAMINATES

(Atty. Docket No. NOVLP147/NVLS-3006), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
 which bears U.S. application No. 11/318,268. (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:** G. Papasoulotis
George D. Papasoulotis

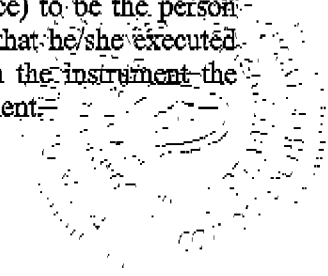
Date: 1/24/06

State of California)
County of _____) ss.

On this 24 day of January, in the year 2006, before me, _____, Notary Public, personally appeared George D. Papasoulotis, 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: [Signature]



2. **Inventor Signature:** _____
Seon-Mee Cho

Date: _____

State of California)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, 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:** _____
Ron Rulkens

Date: _____

State of California)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Ron Rulkens, 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:** _____ **Date:** _____

Mihai Buretea

State of California)
County of _____)

ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Mihai Buretea, 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 _____

5. **Inventor Signature:** _____ **Date:** _____

Dennis M. Hausmann

State of California)
County of _____)

ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Dennis M. Hausmann, 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 _____

6. **Inventor Signature:** _____ **Date:** _____

Michael Barnes

State of California)
County of _____)

ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Michael Barnes, 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 _____

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

METAL-FREE CATALYSTS FOR PULSED DEPOSITION LAYER PROCESS FOR CONFORMAL SILICA LAMINATES

(Atty. Docket No. NOVLP147/NVLS-3006), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
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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.
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Signed on the date indicated beside my signature.

1. Inventor Signature: _____
George D. Papasouliotis

Date: _____

State of California)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared George D. Papasouliotis, 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*
Seon-Mee Cho

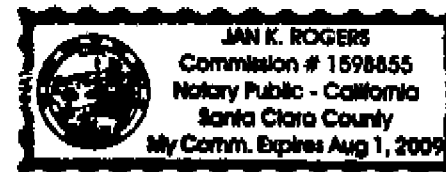
Date: Jan. 24, 2006

State of California)
County of SANTA CLARA) ss.

On this 24th day of JANUARY, in the year 2006, before me, JAN K. ROGERS, 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 *Jan K. Rogers*



3. Inventor Signature: _____
Ron Rulkens

Date: _____

State of California)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Ron Rulkens, 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.

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Notary Signature _____

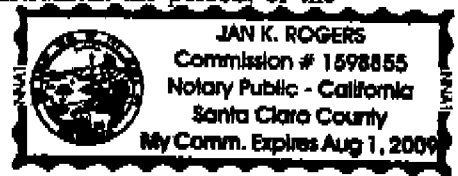
4. Inventor Signature: Mihai Buretea
Mihai Buretea

Date: 1-24-06

State of California)
County of SANTA CLARA) ss.

On this 24th day of JANUARY, in the year 2006, before me, JAN K. ROGERS, Notary Public, personally appeared Mihai Buretea, ~~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 Jan K. Rogers

5. Inventor Signature: _____
Dennis M. Hausmann

Date: _____

State of California)
County of _____) ss.

On this _____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Dennis M. Hausmann, 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 _____

6. Inventor Signature: _____
Michael Barnes

Date: _____

State of California)
County of SANTA CLARA) ss.

On this _____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Michael Barnes, 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 _____

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(Atty. Docket No. NOVLP147/NVLS-3006), (check one)

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Signed on the date indicated beside my signature.

1. Inventor Signature: _____ Date: _____
George D. Papasouliotis

State of California)
)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared George D. Papasouliotis, 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: _____ Date: _____
Seon-Mee Cho

State of California)
)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, 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.
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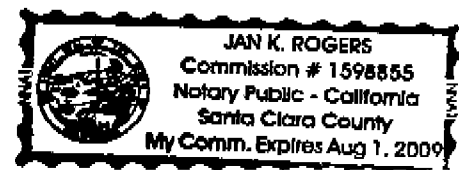
Notary Signature _____

3. Inventor Signature: [Signature] Date: 1/24/2006
Ron Rulkens

State of California)
)
County of SANTA CLARA) ss.

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WITNESS my hand and official seal.

Notary Signature [Signature]



4. Inventor Signature: _____ Date: _____

Mihai Buretea

State of California)
County of _____)

ss.

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WITNESS my hand and official seal.

Notary Signature _____

5. Inventor Signature: _____ Date: _____

Dennis M. Hausmann

State of California)
County of _____)

ss.

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Notary Signature _____

6. Inventor Signature: _____ Date: _____

Michael Barnes

State of California)
County of _____)

ss.

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Notary Signature _____

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Signed on the date indicated beside my signature.

1. Inventor Signature: _____ Date: _____
George D. Papasouliotis

State of California)
)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared George D. Papasouliotis, 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: _____ Date: _____
Seon-Mee Cho

State of California)
)
County of _____) ss.

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WITNESS my hand and official seal.

Notary Signature _____

3. Inventor Signature: _____ Date: _____
Ron Rulkens

State of California)
)
County of _____) ss.

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WITNESS my hand and official seal.

Notary Signature _____

4. Inventor Signature: _____ Date: _____

Mihai Buretea

State of California)

) ss.

County of _____)

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WITNESS my hand and official seal.

Notary Signature _____

5. Inventor Signature: DM _____ Date: 1/27/06

Dennis M. Hausmann

State of ~~California~~ Oregon)

) ss.

County of Washington)



On this 27th day of January, in the year 2006, before me, Laura L. Johnson, Notary Public, personally appeared Dennis M. Hausmann, 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

6. Inventor Signature: _____ Date: _____

Michael Barnes

State of California)

) ss.

County of _____)

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Michael Barnes, 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 _____

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Signed on the date indicated beside my signature.

1. **Inventor Signature:** _____ **Date:** _____

George D. Papasouliotis

State of California)
)
County of _____) ss.

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WITNESS my hand and official seal.

Notary Signature _____

2. **Inventor Signature:** _____ **Date:** _____

Seon-Mee Cho

State of California)
)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, 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:** _____ **Date:** _____

Ron Rulkens

State of California)
)
County of _____) ss.

On this ____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Ron Rulkens, 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: _____ Date: _____

Mihai Buretea

State of California)
)
County of _____)

ss.

On this _____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Mihai Buretea, 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 _____

5. Inventor Signature: _____ Date: _____

Dennis M. Hausmann

State of California)
)
County of _____)

ss.

On this _____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Dennis M. Hausmann, 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 _____

6. Inventor Signature:  _____ Date: 5/9/06

Michael Barnes

State of California)
)
County of _____)

ss.

On this _____ day of _____, in the year 2006, before me, _____, Notary Public, personally appeared Michael Barnes, 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 _____