

10-14-2004

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10/12/04

Commissioner of Patents:

FINANCE SECTION

Please record the attached document.

- 1. Name of conveying party:
 - a) Sanjay Gopinath
 - b) Jeremie Dalton
 - c) Jason M. Blackburn
 - d) John Drewery
 - e) Willibrordus Gerardus Maria van de Hoek

- 2. Name and address of receiving party:
 - a) Name: Novellus Systems, Inc.
 - Address: 3970 North First Street
San Jose, CA 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: 10/01/04 (Gopinath, Dalton, Blackburn, Drewery); 10/04/04 (van den Hoek)

- 4. Application Number or Patent Number: 10/868,384

The title of the application is: **METHOD FOR ENHANCING THE NUCLEATION AND MORPHOLOGY OF RUTHENIUM FILMS ON DIELECTRIC SUBSTRATES USING AMINE CONTAINING COMPOUNDS**

- 5. Please send all correspondence concerning this document to:

Beyer Weaver & Thomas, LLP
P.O. Box 778
Berkeley, CA 94704-0778

Ph: (650) 961-8300
Fax: (650) 961-8301
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. _____).
- Any additional fees are authorized to be charged to Deposit Account No. 50-0388 (Order No. NOVLP095).

Date: October 7, 2004

Joseph E. Bond
Joseph E. Bond
Registration No. 52,633

Total number of pages including this cover sheet, attachments and documents: 5

Attorney Docket No. NOVLP095/NVLS-002911

(Revised 9/03)

10/13/2004 REGISTRATION 00000114 10868384 40.00 0P
01 FC:8021

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 FOR ENHANCING THE NUCLEATION AND MORPHOLOGY OF RUTHENIUM FILMS ON DIELECTRIC SUBSTRATES USING AMINE CONTAINING COMPOUNDS

(Atty. Docket No. NOVLP095/NVLS-002911), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
 which bears U.S. application No.10/868,384. (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: Sanjay Gopinath
Sanjay Gopinath

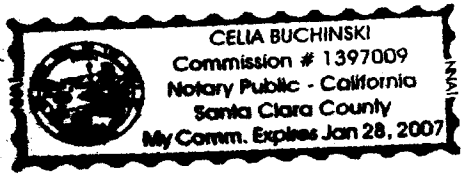
Date: 10/01/2004

State of California)
County of Santa Clara) ss.

On this 1st day of October, in the year 2004, before me, Celia Buchinski, Notary Public personally appeared Sanjay Gopinath, 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



2. Inventor Signature: Jeremie Dalton
Jeremie Dalton

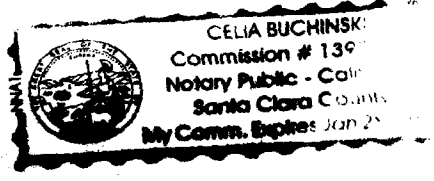
Date: 10/1/2004

State of California)
County of Santa Clara) ss.

On this 1st day of October, in the year 2004, before me, Celia Buchinski, Notary Public, personally appeared Jeremie Dalton, 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



3. Inventor Signature:

Jason M. Blackburn
Jason M. Blackburn

Date:

10/1/04

State of California)

County of Santa Clara)

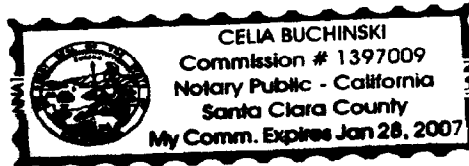
ss.

On this 1st day of October, in the year 2004, before me, Celia Buchinski, Notary Public, personally appeared Jason M. Blackburn, 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



4. Inventor Signature:

John Drewery
John Drewery

Date:

10/1/04

State of California)

County of Santa Clara)

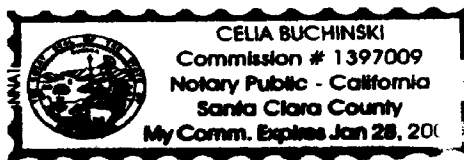
ss.

On this 1st day of October, in the year 2004, before me, Celia Buchinski, Notary Public, personally appeared John Drewery, 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



5. Inventor Signature:

Willibrordus Gerardus Maria van den Hoek
Willibrordus Gerardus Maria van den Hoek

Date:

10/04/04

State of California)

County of Santa Clara) ss.

On this 4th day of October, in the year 2004, before me, Celia Buchinski, Notary Public, personally appeared Willibrordus Gerardus Maria van den Hoek, 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

