

11-08-2000

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027



U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

101509147

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☒ Assignment

☐ Security Agreement

☐ License

☐ Change of Name

☐ Merger

☐ Other

**U.S. Government**

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☐ Departmental File

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## Conveying Party(ies)

☒

Mark if additional names of conveying parties attached

Name (line 1) Olson, Darin S.

Execution Date  
Month Day Year

09082000

Name (line 2)

## Second Party

Name (line 1) Ravi, Tirunelveli S.

Execution Date  
Month Day Year

09072000

Name (line 2)

## Receiving Party

☐

Mark if additional names of receiving parties attached

Name (line 1) Novellus Systems, Inc.

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1) 3970 North First Street

Address (line 2)

Address (line 3) San Jose

City

CA

State/Country

95134

Zip Code

## Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Thomas Swenson

Address (line 1) Duft, Graziano & Forest, P.C.

Address (line 2) P.O. Box 270930

Address (line 3)

Address (line 4) Louisville, CO 80027-5015

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**PATENT**  
**REEL: 011210 FRAME: 0918**

U.S. PTO  
09/684571

10/06/00

**Correspondent Name and Address**

Area Code and Telephone Number (303) 379-1117

Name Thomas Swenson

Address (line 1) Duft, Graziano & Forest, P.C.

Address (line 2) P.O. Box 270930

Address (line 3)

Address (line 4) Louisville, CO 80027-5015

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

# 8

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**


If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year  
09 08 2000

**Patent Cooperation Treaty (PCT)**

Enter PCT application number

PCT

only if a U.S. Application Number has not been assigned.

PCT

**Number of Properties**

Enter the total number of properties involved.

# 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:  
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Enclosed ☐ Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# 04-1697

Authorization to charge additional fees:

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No

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**Statement and Signature**

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Thomas Swenson

Name of Person Signing

Thomas Swenson

Signature

Oct. 6, 2000

Date

RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

**Conveying Party(ies)**

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date  
Month Day Year

Name (line 1) Swope, Richard S.

10012000

Name (line 2)

Execution Date  
Month Day Year

Name (line 1) Krebs, Jerrod Paul

09052000

Name (line 2)

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

**Receiving Party(ies)**

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

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Patent Application Number(s)

Patent Number(s)



PTO  
JCS32 U.S.  
09/04/97

10/06/00

For: U.S. Rights and Foreign Rights  
For: U.S. Application  
By: Inventors

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNORS:**

Darin S. Olson  
~~29 Lorelei Lane~~ 266 Santa Margarita Ave.  
Menlo Park, CA 94025  
Nationality: USA

Tirunelveli S. Ravi  
4243 Verdigris Circle  
San Jose, CA 95134  
Nationality: USA

Richard S. Swope  
533 8th Avenue, #4  
San Francisco, CA 94118  
Nationality: USA

Jerrold Paul Krebs  
4555 Thornton Avenue, #20  
Fremont, CA 94536  
Nationality: USA

hereby sell, assign and transfer to

**ASSIGNEE:**

Novellus Systems, Inc.  
3970 North First Street  
San Jose, CA 95134  
State or Country of Formation: California

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

**METHOD AND APPARATUS FOR USE OF HYDROGEN AND SILANES IN PLASMA**

in and to (37 C.F.R. Section 3.21) U.S. patent application executed on even date herewith, including any and all improvements which are disclosed therein, and any legal equivalent of the foregoing invention, application and improvements in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

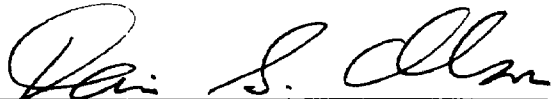
(Assignment of Invention--page 1 of 2)

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on the respective dates below.

Date: September 8<sup>th</sup> 2000

  
Signature of Darin S. Olson

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

\_\_\_\_\_  
Signature of Tirunelveli S. Ravi

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

\_\_\_\_\_  
Signature of Richard S. Swope

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

\_\_\_\_\_  
Signature of Jerrod Paul Krebs

For: U.S. Rights and Foreign Rights  
For: U.S. Application  
By: Inventors

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(Assignment of Invention--page 1 of 2)

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IN WITNESS WHEREOF, we have hereunto set our hands and seals on the respective dates below.

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

\_\_\_\_\_  
Signature of Darin S. Olson

Date: 9/7/00

Tirunelveli Subramanian Ravi  
Signature of Tirunelveli S. Ravi

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

\_\_\_\_\_  
Signature of Richard S. Swope

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

\_\_\_\_\_  
Signature of Jerrod Paul Krebs

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For: U.S. Application  
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\_\_\_\_\_  
**Signature of Darin S. Olson**

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

\_\_\_\_\_  
**Signature of Tirunelveli S. Ravi**

Date: 10-01-00

  
\_\_\_\_\_  
**Signature of Richard S. Swope**

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

\_\_\_\_\_  
**Signature of Jerrod Paul Krebs**

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

\_\_\_\_\_  
Signature of Tirunelveli S. Ravi

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

\_\_\_\_\_  
Signature of Richard S. Swope

Date: 9/5/2000

  
\_\_\_\_\_  
Signature of Jerrod Paul Krebs

(Assignment of Invention--page 2 of 2)