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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Thomas N. Horsky  
Dale C. Jacobson

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: SemEquip, Inc.

Internal Address: \_\_\_\_\_

Street Address: 34 Sullivan Road, Unit #21

City: Billerica

State: Massachusetts

Country: U.S.A. Zip: 01862

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) December 16, 2002

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**4. Application or patent number(s):**

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

01/08/2007 DBYRNE 00000061 501214 11647922

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Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: John S. Paniaguas

Internal Address: \_\_\_\_\_

Street Address: 525 West Monroe Street

City: Chicago

State: Illinois Zip: 60661

Phone Number: 312-902-5200

Fax Number: 312-902-1061

Email Address: johnp@kattenlaw.com

**6. Total number of applications and patents involved:** ~~1~~ 1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-1214

Authorized User Name John S. Paniaguas

**9. Signature:**

John S. Paniaguas  
Signature  
John S. Paniaguas  
Name of Person Signing

December <sup>29</sup> 28, 2006  
Date

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

3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT**  
**REEL: 018751 FRAME: 0584**

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ASSIGNMENT

IN CONSIDERATION of other good and valuable consideration, the receipt of which is hereby acknowledged, We, **Thomas Neil Horsky** residing at **816 Depot Road, Boxborough, Massachusetts 01719, County of Middlesex** and **Dale Conrad Jacobson** residing at **107 Catswamp Road, Hackettstown, New Jersey 07840, County of Warren** and **Wade Allen Krull** residing at **8 Smith Street, Marblehead, Massachusetts 01915, County of Essex** do hereby sell, assign and transfer unto **SemEquip, Inc.**, a corporation organized and existing under the laws of the State of **Delaware** having its principle place of business at **34 Sullivan Road, Unit #21, Billerica, Massachusetts 01862**, its successors, assigns and legal representatives, the entire right, title and interest for the United States and its territories, and all foreign countries, in and to the invention set forth in an application for a patent filed **September 20, 2002** and assigned Application No. **10/251,491**, entitled **Method of Manufacturing CMOS Devices by the Implantation of N- and P-Type Cluster Ions**, as well as the following U.S. provisional patent applications upon which the international application claims priority: Serial No. **60/391,847**, filed **June 26, 2002**, and Serial No. **60/392,271**, filed **June 26, 2002**; and U.S. patent application Serial No. **10/244,617**, filed **September 16, 2002** and all the right, title and interest in and to any and all United States and foreign Letters Patents that may be granted for said invention, and all divisions, continuations, renewals, reissues, and extensions thereof, and the applications therefor, and the right to claim the priority of this international patent application in any U.S. and all foreign countries where application for patent on said invention may be filed; and we hereby agree to execute such other lawful documents and perform such other lawful acts as are requested for securing to said assignee, its successors, assigns and legal representatives, all of the rights to said invention.

**WE HEREBY AUTHORIZE AND REQUEST** the Commissioner of Patents and Trademarks to issue the Letters Patent to said assignee, its successors and assigns, pursuant to the terms of this Assignment.


IN WITNESS WHEREOF, I have signed, sealed and delivered this instrument this 16<sup>th</sup> day of December, 2002.

  
Thomas Neil Horsky

STATE OF MASSACHUSETTS )  
 ) ss:  
COUNTY OF MIDDLESEX )


BE IT REMEMBERED that on this 16th day of December 2002, before me, a Notary Public, duly commissioned, qualified and acting in and for the County and State aforesaid, came **Thomas Neil Horsky** who is personally known to me to be the identical person described in and who executed and signed the foregoing instrument of writing, and duly acknowledged that he executed the same as his free act and deed, for the purposes and considerations therein expressed.

IN WITNESS WHEREOF, I hereunto set my hand and affix my official seal the day and year aforesaid.

  
Notary Public

My Commission Expires:  
1-23-09

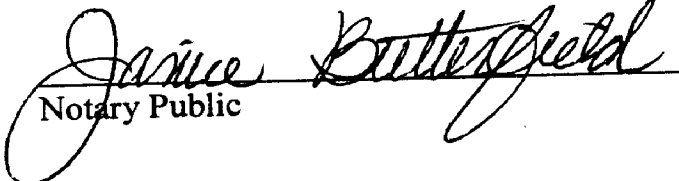
IN WITNESS WHEREOF, I have signed, sealed and delivered this instrument this 16th day of December, 2002.

  
Dale Conrad Jacobson

Massachusetts  
STATE OF ~~NEW JERSEY~~ )  
Middlesex ) ss:  
COUNTY OF ~~WARREN~~ )

BE IT REMEMBERED that on this 16th day of December 2002, before me, a Notary Public, duly commissioned, qualified and acting in and for the County and State aforesaid, came **Dale Conrad Jacobson** who is personally known to me to be the identical person described in and who executed and signed the foregoing instrument of writing, and duly acknowledged that he executed the same as his free act and deed, for the purposes and considerations therein expressed.

IN WITNESS WHEREOF, I hereunto set my hand and affix my official seal the day and year aforesaid.

  
Notary Public

My Commission Expires:  
1-23-09

IN WITNESS WHEREOF, I have signed, sealed and delivered this instrument this  
16<sup>th</sup> day of December, 2002.

*Wade Allen Krull*

Wade Allen Krull

STATE OF MASSACHUSETTS )  
 ) ss:  
COUNTY OF ESSEX )

BE IT REMEMBERED that on this 16 day of December 2002, before me, a Notary Public, duly commissioned, qualified and acting in and for the County and State aforesaid, came **Wade Allen Krull** who is personally known to me to be the identical person described in and who executed and signed the foregoing instrument of writing, and duly acknowledged that he executed the same as his free act and deed, for the purposes and considerations therein expressed.

IN WITNESS WHEREOF, I hereunto set my hand and affix my official seal the day and year aforesaid.

*Joanne Roberts*  
Notary Public

My Commission Expires:

