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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Thomas N. Horsky	12/16/2002
Dale C. Jacobson	12/16/2002
Wade A. Krull	12/16/2002

RECEIVING PARTY DATA

Name:	SemEquip, Inc.
Street Address:	34 Sullivan Road
Internal Address:	Unit #21
City:	Billerica
State/Country:	MASSACHUSETTS
Postal Code:	01862

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11647922

CORRESPONDENCE DATA

Fax Number: (312)902-1061

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Correspondent Name: John S. Paniaguas

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Address Line 4: Washington, DISTRICT OF COLUMBIA 20007-5201

ATTORNEY DOCKET NUMBER:	211843-00024 CONT.
NAME OF SUBMITTER:	j

Total Attachments: 3

PATENT REEL: 019709 FRAME: 0435

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> PATENT REEL: 019709 FRAME: 0436

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 day of <u>December</u>, 2002.

Thomas Neil Horsky

PATENT REEL: 019709 FRAME: 0437

STATE OF MASSACHUSETTS)
COUNTY OF MIDDLESEX)
BE IT REMEMBERED that on this day of 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 Butter Glad
rotary rubile
My Commission Expires:
IN WITNESS WHEREOF, I have signed, sealed and delivered this instrument this day of
a go Com a star
Dale Conrad Jacobson STATE OF NEW JERSEY JUNIES EX SS:
COUNTY OF WARREN)
BE IT REMEMBERED that on this 1 day of 12002, 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 Stilled
My Commission Expires: 123-09

PATENT REEL: 019709 FRAME: 0438

Attorney Docket No. 211843/00024

IN WITNESS WHEREOF,	, I have signed, sealed and delivered this instrument this
16th day of December	
	Wnew Allen Kull
	Wade Allen Krull
STATE OF MASSACHUSETTS)
) ss:
COUNTY OF ESSEX)	
BE IT REMEMBERED tha	at on this /6 day of Alexandre 2002, before me, a
	qualified and acting in and for the County and State
	who is personally known to me to be the identical person
	signed the foregoing instrument of writing, and duly same as his free act and deed, for the purposes and
considerations therein expressed.	ane as ins free act and acca, for the purposes and
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	, I hereunto set my hand and affix my official seal the day
and year aforesaid.	
	(hunts.
	Notary/Public
My Commission Expires:	
	-
JOANNE ROBERTS Notary Public	
Notary Public Commonwealth of Massachusetts My Commission Expires	
March 13, 2009	

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