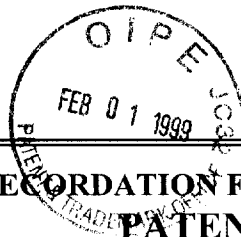


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02-10-1999



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FORM PTO-1595  
1-31-92

**RECORDATION FOR PATENTS ONLY**

DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Assistant Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
  
Leroy Luo, Stephen E. Savas, Wolfgang Helle, Rene George,  
Criag Ranft, Robert Guerra

2. Name and address of receiving party(ies):  
  
**Mattson Technology, Inc.**  
  
**3550 West Warren Avenue**  
  
**Fremont, California 94538**

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

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

3. Nature of conveyance:  
  
 Assignment                       Merger  
 Security Agreement               Change of Name  
 Other

Execution Date: 1/12/99, 12/17/98, 12/17/98, 1/12/99, 1/13/99, 1/6/99,  
respectively

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s): 09/192,810

B. Patent No.(s):

Additional numbers attached?  Yes  No

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

**Michael J. Murphy**  
**Internal Address: SR 1-2-15**  
**Wilson Sonsini Goodrich & Rosati**  
**650 Page Mill Road**  
**Palo Alto, CA 94304-1050**

6. Total number of applications and patents involved:  1

7. Total fee (37 CFR 3.41) ..... \$40.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number: 23-2415  
(Attorney Docket No. 14912.746)

02/05/1999 SSALEEKU 00000016 232415 09152210  
01 EC:581 40.00 CH

**DO NOT USE THIS SPACE**

9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Michael J. Murphy, Reg. No. 37,404  
Name of Person Signing

Signature

January 26, 1999  
Date

Total number of pages including cover sheet, attachments and document: [7]

**ASSIGNMENT**

WHEREAS, the undersigned,

Leroy Luo  
5430 Matthew Terrace  
Fremont, California 94555

Rene George  
6048 Salida Del Sol  
San Jose, California 95123

Citizenship: U.S.A.

Citizenship: U.S.A.

Stephen E. Savas  
1357 Pearl St., Apt. G  
Alameda, California 94501

Craig Ranft  
319 Summerwood Drive  
Fremont, California 94536-1595

Citizenship: U.S.A.

Citizenship: U.S.A.

Wolfgang Helle  
Kirchenstrasse 97  
81675 Munich, GERMANY

Robert Guerra  
45939 Omega Drive  
Fremont, California 94539

Citizenship: Germany

Citizenship: U.S.A.

hereinafter termed "Inventors," have invented certain new and useful improvements in

**Systems and Methods for Variable Mode Plasma Enhanced  
Processing of Semiconductor Wafers**

and have executed an application for a United States patent disclosing and identifying the invention on November 16, 1998 as Application No. 09/192,810 (hereinafter termed "application"); and

WHEREAS, Mattson Technology, Inc., a corporation of the State of California, having a place of business at 3550 West Warren Avenue, Fremont, California 94538, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed and delivered this instrument to said Assignee as of the dates written below.

[Signature]  
Leroy Luo  
1/12/99  
Date

[Signature]  
Rene George  
1/12/99  
Date

[Signature]  
Stephen E. Savas  
12/17/98  
Date

[Signature]  
Craig Ranft  
1/13/99  
Date

[Signature]  
Wolfgang Helle  
12/17/98  
Date

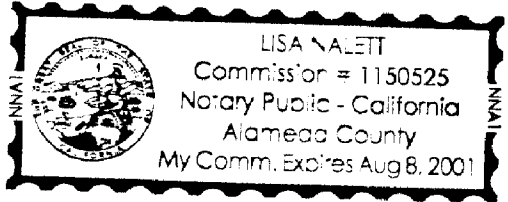
[Signature]  
Robert Guerra  
1-6-99  
Date

State of California CA )  
County of Alameda )

On 1/12/99, before me, Lisa Nalett, Notary Public,  
personally appeared Leroy Luo,  
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 executed the same in his authorized capacity, and that by his 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.

[Signature]  
(Notary Public)

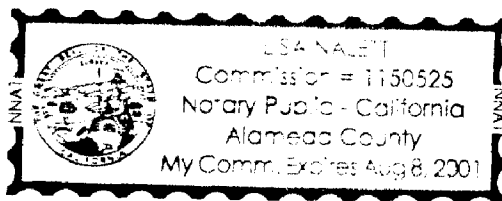


State of California CA )  
County of Alameda )

On 12/17/98, before me, LISA NALETT, Notary Public,  
personally appeared Stephen E. Savas,  
(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 executed the  
same in his authorized capacity, and that by his 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.

Lisa Nalett  
(Notary Public)

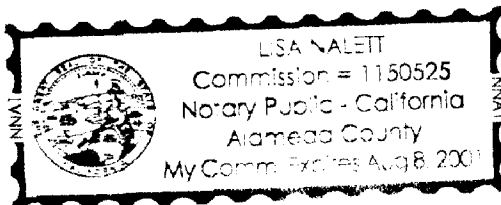


State of California CA )  
County of Alameda )

On 12/17/98, before me, LISA NALETT, Notary Public,  
personally appeared Wolfgang Helle,  
(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 executed the  
same in his authorized capacity, and that by his 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.

Lisa Nalett  
(Notary Public)

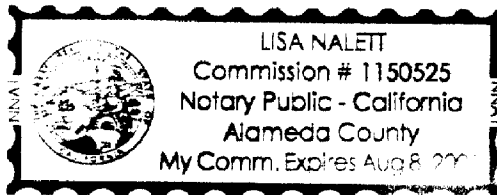


State of California CA )  
County of Alameda )

On 1/12/99, before me, Lisa Nalett, Notary Public,  
personally appeared Rene George,  
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 executed the  
same in his authorized capacity, and that by his 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.

Lisa Nalett  
(Notary Public)

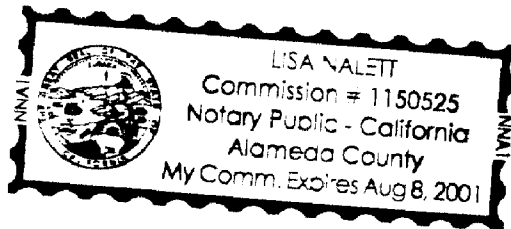


State of California CA )  
County of Alameda )

On 1/13/99, before me, Lisa Nalett, Notary Public,  
personally appeared Craig Ranft,  
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 executed the  
same in his authorized capacity, and that by his 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.

Lisa Nalett  
(Notary Public)

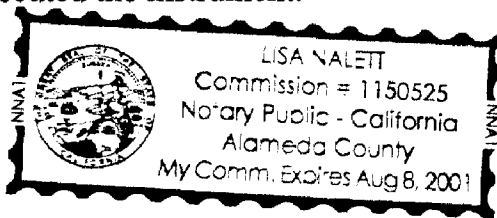


State of California CA )  
County of Alameda )

On 11/6/99, before me, LISA NALETT, Notary Public,  
personally appeared Robert Guerra,  
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 executed the  
same in his authorized capacity, and that by his 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.

Lisa Nalett  
(Notary Public)



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