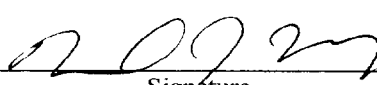


FORM PTO-1595 1-31-92		06-26-2000		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
To the Commissioner of Patents:		101389687		original documents or copy thereof.	
1. Name of conveying party(ies): Kristian E. Johnsgard; Brad S. Mattson; James McDiarmid; Vladimir J. Zeitlin Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Mattson Technology, Inc. 3550 West Warren Avenue Fremont, California 94538 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other Execution Date: <u>5/18/00; 5/18/00; 6/1/00; 5/21/00,</u> <u>respectively</u>					
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): 09/490,741			B. Patent No.(s):		
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Michael J. Murphy Internal Address: SR 1-2 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 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account			
		8. Deposit account number: <u>23-2415</u> (Attorney Docket No.: 14912.763)			
DO NOT USE THIS SPACE					
9. Statement and signature. <i>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.</i>					
Michael J. Murphy Name of Person Signing		 Signature		June 13, 2000 Date	
Total number of pages including cover sheet, attachments, and document: [6]					

06/21/2000 WKORDMA 00000080 232415 09490741
03 FC:581 40.00 CH

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ASSIGNMENT OF APPLICATION

Docket Number 14912.763

Whereas, the undersigned:

- | | | | |
|---|---|---|---|
| 1. JOHNSGARD, Kristian E.
13560 Indian Rock Way
Los Gatos, California 95030 | 2. MATTSON, Brad S.
16620 Kennedy Drive
Los Gatos, California 95032 | 3. MCDIARMID, James
5 Duncan Hill Court
San Ramon, California 94583 | 4. ZEITLIN, Vladimir J.
146 Muir Avenue
Santa Clara, California 95051 |
|---|---|---|---|

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

SYSTEM AND METHOD FOR THERMAL PROCESSING OF A SEMICONDUCTOR SUBSTRATE

- ☒ for which an application for United States Patent was filed on January 25, 2000, Application No. 09/490,741
☐ for which an application for a United States Patent was executed on , and

WHEREAS, Mattson Technology, Inc., a corporation of the State of Delaware, 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:

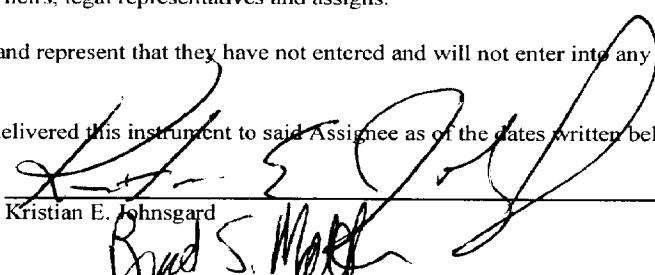
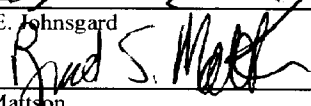
1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection 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, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: 5/18/00

 Kristian E. Johnsard
Date: 5/18/00

 Brad S. Mattson

Date: _____

James McDiarmid

Date: _____

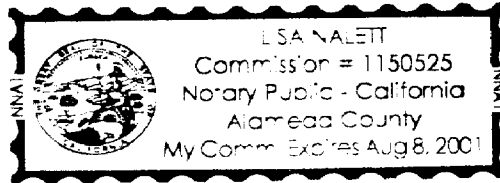
Vladimir J. Zeitlin

State of California)
 County of Alameda)

On 5/18/00, before me, LISA NALETT, Notary Public,
 personally appeared Kristian E. Johnsgard,
☒ 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)

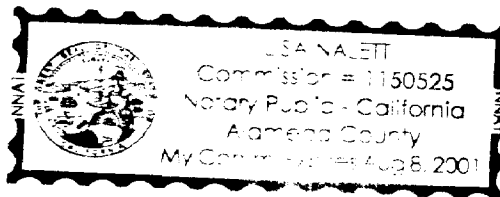


State of California)
 County of Alameda)

On 5/18/00, before me, LISA NALETT, Notary Public,
 personally appeared Brad S. Mattson,
☒ 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)



C:\patents\763 notary1

ASSIGNMENT OF APPLICATION

Docket Number 14912.763

Whereas, the undersigned:

- | | | | |
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| 1. JOHNSGARD, Kristian E.
13560 Indian Rock Way
Los Gatos, California 95030 | 2. MATTSON, Brad S.
16620 Kennedy Drive
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146 Muir Avenue
Santa Clara, California 95051 |
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☐ for which an application for a United States Patent was executed on _____, and

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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.

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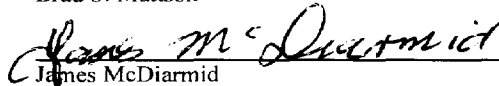
IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: _____

Kristian E. Johnsgard

Date: _____

Brad S. Mattson

Date: 6/1/00


James McDiarmid

Date: _____

Vladimir J. Zeitlin

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ASSIGNMENT OF APPLICATION

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16620 Kennedy Drive
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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, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: _____

Kristian E. Johnsgard

Date: _____

Brad S. Mattson

Date: _____

James McDiarmid

Date: 05.21.00

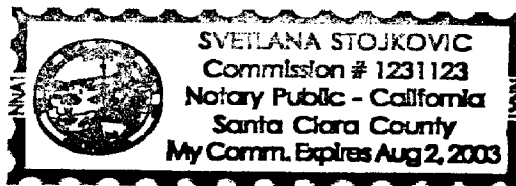
Vladimir J. Zeitlin

State of California)
)
 County of Santa Clara)

On May 21, 2000, before me, Svetlana Stojkovic, Notary Public,
 personally appeared Vladimir J. Zeitlin,
~~☐ 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.

Svetlana Stojkovic
 (Notary Public)



C:\patents\763 notary3