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FORM PTO-1595 06 -2	26-2000 U.S. DEPARTMENT OF CO	OMMERCE		
1-31-92 JUN 2 1 2	Patent and Trade	mark Office		
	389687 priginal documents or copy thereof	f.		
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? Yes No 3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: 5/18/00; 5/18/00; 6/1/00; 5/21/00, respectively 4. Application number(s) or patent number(s):	2. Name and address of receiving party(ies): Mattson Technology, Inc. 3550 West Warren Avenue Fremont, California 94538 Additional name(s) & address(es) attached? Yes No	MARKET STATE OF THE PARTY OF TH		
If this document is being filed together with a new application	n, the execution data of the application is:			
	T			
A. Patent Application No.(s): 09/490,741	B. Patent No.(s):			
5. Name and address of party to whom correspondence concerning document should be mailed:	ers attached? Yes No 6. Total number of applications and patents involved: [1]			
Michael J. Murphy Internal Address: SR 1-2 Wilson Sonsini Goodrich & Rosati 650 Page Mill Road Palo Alto, CA 94304-1050	7. Total fee (37 CFR 3.41) S ☐ Enclosed ☐ Authorized to be charged to deposit account	<u> </u>		
1 ato Atto, CA 94304-1030	8. Deposit account number: 23-2415 (Attorney Docket No.: 14912.763)			
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9. Statement and signature. To the best of my knowledge and belief, the foregoing inf the original document.	formation is true and correct and any attached copy is a true	e copy of		
Michael J. Murphy Name of Person Signing Total nu	Signature June 13, Date imber of pages including cover sheet, attachments, and documents.	te		
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ASSIGNMENT OF APPLICAT	
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 9.	3. MCDIARMID, James 4. ZEITLIN, Vladimir J. 5 Duncan Hill Court 146 Muir Avenue Santa Clara, California 95051
nereinafter termed "Inventors", have invented certain new and use	eful improvements in
SYSTEM AND METHOD FOR THERMA	L PROCESSING OF A SEMICONDUCTOR SUBSTRATE
for which an application for United States Patent wfor which an application for a United States Patent	was filed on <u>January 25, 2000</u> , Application No. <u>09/490,741</u> was executed on, and
California 94538, (hereinafter termed "Assignee"), is desirous of any ention disclosed therein, and in and to all embodiments of the	of <u>Delaware</u> , having a place of business at <u>3550 West Warren Avenue</u> , <u>Fremont</u> , acquiring the entire right, title and interest in and to said application and the invention, heretofore conceived, made or discovered jointly or severally by said and in and to any and all patents, inventor's certificates and other forms of protection as and foreign countries.
NOW, THEREFORE, in consideration of good and valifrom said Assignce:	luable consideration acknowledged by said Inventors to have been received in full
application and said invention; (b) in and to all rights to apply for Protection of Industrial Property or otherwise; (c) in and to any ard United States or any foreign country, including each and every ap	er and convey unto said Assignee the entire right, title and interest (a) in and to said a foreign patents on said invention pursuant to the International Convention for the and all applications filed and any and all patents granted on said invention in the application filed and each and every patent granted on any application which is a any of said applications; and (d) in and to each and every reissue or extensions of
enjoy to the fullest extent the right, title and interest herein conveyshall include prompt production of pertinent facts and documents, other papers, and other assistance all to the extent deemed necessand interest herein conveyed; (b) for prosecuting any of said appliadditional applications covering said invention; (d) for filing and other priority proceedings involving said invention; and (f) for legistations granted thereon, including without limitation reissues and	covenant and agree to cooperate with said Assignee to enable said Assignee to yed in the United States and foreign countries. Such cooperation by said Inventors, giving of testimony, execution of petitions, oaths, specifications, declarations or any or desirable by said Assignee (a) for perfecting in said Assignee the right, title ications; (c) for filing and prosecuting substitute, divisional, continuing or prosecuting applications for reissuance of any said patents; (e) for interference or gal proceedings involving said invention and any applications therefor and any reexaminations, opposition proceedings, cancellation proceedings, priority actions; provided, however, that the expense incurred by said Inventors in
3. The terms and covenants of this assignment representatives, and shall be binding upon said Inventors, their res	shall inure to the benefit of said Assignee, its successors, assigns and other legal spective heirs, legal representatives and assigns.
assignment, contract, or understanding in conflict herewith.	warrant and represent that they have not entered and will not enter into any
IN WITNESS WHEREOF, said Inventors have execute Date: 5/18/00	ed and delivered this instrument to said Assignee as of the dates written below:
Date: 5/18/80	Brad S. Mattson
Date:	James McDiarmid
Date:	Vladimir J. Zeitlin

State of California)				
County of Alameda)				
On	onnsgard, roved to me on the within instrument and that by his sign	e basis of s and ackno ature on the	satisfactory eviden owledged to me the instrument the p	ce, to be the person nat he executed the
WITNESS my hand and official s (Notary Public)	eal.	No	ESA NALETT ommission = 1150525 rary Public - California Alameda County omm Expires Aug 8, 200	Ī
State of California) County of Alameda) On 5/18/00 personally appeared Brad S. Matt				
On	roved to me on the within instrument and that by his sign	e basis of s and ackno ature on th	satisfactory eviden owledged to me the ne instrument the p	ce, to be the person at he executed the
WITNESS my hand and official s (Notary Public)			LSA NALETT Commission = 115052 Natary Public - Califorr Alameda County (Conlim - 7511=5 Aug 8, 2	

C:\patents\763 notary1

ASSIGNMENT OF APPLICATION	Docket Number 14912.763
Whereas, the undersigned: I. JOHNSGARD, Kristian E. 13560 Indian Rock Way Los Gatos, California 95030 AMATTSON, Brad S. 16620 Kennedy Drive Los Gatos, California 95032 San Ramon, California	4. ZEITLIN, Vladimir L 146 Muir Avenue Santa Clara, California 95051
nereinafter termed "Inventors", have invented certain new and useful improvements in	
SYSTEM AND METHOD FOR THERMAL PROCESSING OF A SEMICON	NDUCTOR SUBSTRATE
for which an application for United States Patent was filed on <u>January 25, 2000</u> , Appli for which an application for a United States Patent was executed on, and	cation No. <u>09/490,741</u>
WHEREAS, <u>Mattson Technology</u> , <u>Inc.</u> , a corporation of the State of <u>Delaware</u> , having a place of busing <u>California 94538</u> , (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and in invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, machine (all collectively hereinafter termed "said invention"), and in and to any and all patents, invertigation (hereinafter termed "patents") thereon granted in the United States and foreign countries.	terest in and to said application and the le or discovered jointly or severally by said
NOW, THEREFORE, in consideration of good and valuable consideration acknowledged before said Assignee:	y said Inventors to have been received in full
1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the application and said invention; (b) in and to all rights to apply for foreign patents on said invention purotection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and sufficiently states or any foreign country, including each and every application filed and each and every padivisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in another of said patents.	rsuant to the International Convention for the all patents granted on said invention in the atent granted on any application which is a
2. Said Inventors hereby jointly and severally covenant and agree to cooperate with enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign shall include prompt production of pertinent facts and documents, giving of testimony, execution of pother papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting additional applications covering said invention; (d) for filing and prosecuting applications for reissuant other priority proceedings involving said invention; and (f) for legal proceedings involving said invention; patents granted thereon, including without limitation reissues and reexaminations, opposition proceed contests, public use proceedings, infringement actions and court actions; provided, however, that the exproviding such cooperation shall be paid for by said Assignee.	countries. Such cooperation by said Inventors etitions, oaths, specifications, declarations or for perfecting in said Assignee the right, title g substitute, divisional, continuing or the of any said patents; (e) for interference or tion and any applications therefor and any tings, cancellation proceedings, priority
3. The terms and covenants of this assignment shall inure to the benefit of said Assignment shall be binding upon said Inventors, their respective heirs, legal representatives and shall be binding upon said Inventors, their respective heirs, legal representatives are	
4. Said Inventors hereby jointly and severally warrant and represent that they have assignment, contract, or understanding in conflict herewith.	not entered and will not enter into any
IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to sa	aid Assignee as of the dates written below:
Date: Kristian E. Johnsgard	
Date:	
Brad S. Mattson	<u> </u>
Date: 6/1/00 Clames McDiarmid	hatmid
Date:Vladimir J. Zeitlin	

PTO/SB/15 (8-96)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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ASSIGNMENT OF APPLICATION	Docket Number 14912.763		
Whereas, the undersigned:			
1. JOHNSGARD, Kristian E. 2. MATTSON, Brad S. 3. MCDIARMID, Jame 13560 Indian Rock Way 16620 Kennedy Drive 5 Duncan Hill Court Los Gatos, California 95030 Los Gatos, California 95032 San Ramon, California	146 Muir Avenue		
hereinafter termed "Inventors", have invented certain new and useful improvements in			
SYSTEM AND METHOD FOR THERMAL PROCESSING OF A SEMICO	ONDUCTOR SUBSTRATE		
for which an application for United States Patent was filed on <u>January 25, 2000</u> , App for which an application for a United States Patent was executed on, and	elication No. <u>09/490,741</u>		
WHEREAS, Mattson Technology, Inc., a corporation of the State of Delaware, having a place of bus California 94538, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and is invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, matter (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventionally invention (hereinafter termed "patents") thereon granted in the United States and foreign countries.	nterest in and to said application and the		
NOW, THEREFORE, in consideration of good and valuable consideration acknowledged from said Assignee:	by said Inventors to have been received in full		
1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the application and said invention; (b) in and to all rights to apply for foreign patents on said invention properties of Industrial Property or otherwise; (c) in and to any and all applications filed and any and United States or any foreign country, including each and every application filed and each and every properties of any of said applications; and (d) in an any of said patents.	ursuant to the International Convention for the all patents granted on said invention in the patent granted on any application which is a		
2. Said Inventors hereby jointly and severally covenant and agree to cooperate with enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign shall include prompt production of pertinent facts and documents, giving of testimony, execution of pother papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting additional applications covering said invention; (d) for filing and prosecuting applications for reissual other priority proceedings involving said invention; and (f) for legal proceedings involving said inventions and recommendations, opposition proceed contests, public use proceedings, infringement actions and court actions; provided, however, that the providing such cooperation shall be paid for by said Assignee.	countries. Such cooperation by said Inventors petitions, oaths, specifications, declarations or) for perfecting in said Assignee the right, title ing substitute, divisional, continuing or ince of any said patents; (e) for interference or into and any applications therefor and any dings, cancellation proceedings, priority		
3. The terms and covenants of this assignment shall inure to the benefit of said Assepresentatives, and shall be binding upon said Inventors, their respective heirs, legal representatives	signee, its successors, assigns and other legal and assigns.		
 Said Inventors hereby jointly and severally warrant and represent that they have assignment, contract, or understanding in conflict herewith. 	not entered and will not enter into any		
IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to s	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	Zeiblin		

State of California

County of Sunta Clara

On My 21, 2000, before me, Svetland Stoykovic, 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.

(Notary Public)



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RECORDED: 06/11/2000