

02-03-2000

FORM PTO-1595
1-31-92

RECC



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

101256619

MKS 1.13.00

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

1. Name of conveying party(ies):
Richard Norman Savage, Frank Steve Menagh, Helder Rodrigues Carvalheira, Philip Andrew Troiani, Dan Lester Cossentine, Eric Robert Vaughan, Bruce Edwin Mayer

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

2. Name and address of receiving party(ies):
Name: Silicon Valley Group, Thermal Systems, LLC
Internal Address: *

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

Execution Date: January 7, 2000

Street Address: 440 Kings Village Road
City: Scotts Valley
State: CA Zip: 95066

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

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: January 13, 2000

A. Patent Application S.N.(s)
To be assigned

B. Patent No.(s)

Additional numbers attached? Yes No

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

Victor E. Johnson, Esq.
FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP
Four Embarcadero Center, Suite 3400
San Francisco, California 94111-4187

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: 06-1300
Please debit any underpayment or credit any overpayment to the above deposit account.

Our Order No. *
(Attach duplicate of this page if paying by deposit account)

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.

Victor E. Johnson
Name of Person Signing

Signature

January 13, 2000
Date

Total number of pages including cover sheet, attachments and document: [6]

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments

File No.: A-67736/AJT/MSS/VEJ

Washington, DC 20231

01/28/2000 MVILLARI 00000030 09483945

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PATENT
REEL: 010515 FRAME: 0019

ASSIGNMENT

WHEREAS, the undersigned, **Richard N. Savage**; a resident of **Scotts Valley, California**; **Frank S. Menagh**, a resident of **Santa Cruz, California**; **Helder R. Carnevalheira**, a resident of **Scotts Valley, California**; **Philip A. Troiani**, a resident of **Santa Cruz, California**; **Dan L. Cossentine**, a resident of **Santa Cruz, California**; **Eric R. Vaughan**, a resident of **Santa Cruz, California**, and **Bruce E. Mayer**, a resident of **Soquel, California**; have invented certain new and useful improvements in a *Semiconductor Wafer Processing System with Vertically-Stacked Process Chambers and Single-Axis Dual-Wafer Transfer System*, and having filed provisional applications for a United States patent disclosing and identifying the inventions on April 2, 1999 as Serial Nos. 60/127,532 and 60/127,650; and

WHEREAS, **SILICON VALLEY GROUP, THERMAL SYSTEMS LLC** (hereinafter termed "Assignee"), a Limited Liability Corporation of the State of Delaware, having a place of business at Scotts Valley, California, 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 division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extension of any of said patents; and (e) all claims for damages by reason of past infringement of said Patents, with the right to sue for and collect the same for its own use and enjoyment, and for use and enjoyment of its successors, assigns or other legal representatives.

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

ASSIGNMENT

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PATENT

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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 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, covenants and conditions 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 the day and year below written.

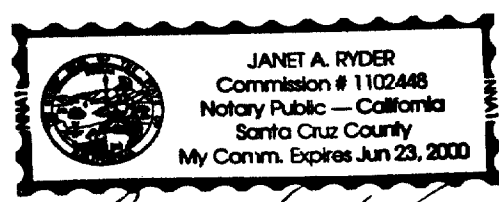
1) Dated: January 7, 2000
State of California)
County of Santa Cruz) SS

Richard N. Savage
Richard N. Savage

On January 7, 2000, before me, Janet A. Ryder Notary Public of the State of California, personally appeared Richard N. Savage, 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 Janet A. Ryder



(Seal)

2) Dated: January 7, 2000
State of California)
County of Santa Cruz) SS

Frank S. Menagh
Frank S. Menagh

On January 7 -, 2000, before me, Janet A. Ryder, Notary Public of the State of California, personally appeared Frank S. Menagh, 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 Janet A. Ryder



(Seal)

3) Dated: January 7, 2000

Helder R. Carvalheira
Helder R. Carvalheira

State of California)
County of Santa Cruz) SS

On January 2, -, 2000, before me, Janet A. Ryder, Notary Public of the State of California, personally appeared Helder R. Carvalheira, 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 Janet A. Ryder



(Seal)

4) Dated: January 7, 2000

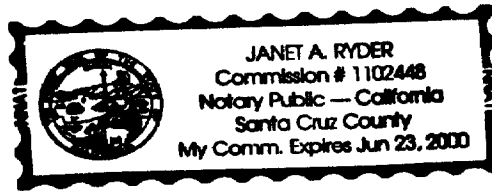
Philip A. Troiani
Philip A. Troiani

State of California)
County of Santa Cruz) SS

On January 7, 2000, before me, Janet A. Ryder, Notary Public of the State of California, personally appeared Philip A. Troiani, 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 Janet A. Ryder



(Seal)

5) Dated: January 7, 2000

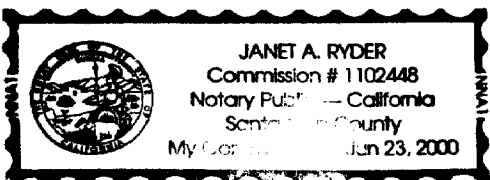
Dan Cossentine
Dan L. Cossentine

State of California)
County of Santa Cruz) SS

On January 7, 2000, before me, Janet A. Ryder, Notary Public of the State of California, personally appeared Dan L. Cossentine, 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 Janet A. Ryder



(Seal)

6) Dated: January 7, 2000

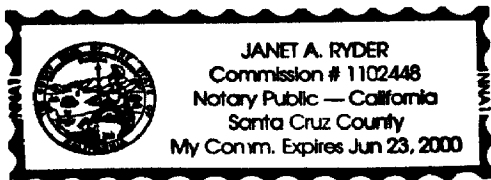
Eric R. Vaughan
Eric R. Vaughan

State of California)
County of Santa Cruz) SS

On January 7, 2000, before me, Janet A. Ryder, Notary Public of the State of California, personally appeared Eric R. Vaughan, 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 Janet A. Ryder



(Seal)

7) Dated: January 7, 2000

Bruce E. Mayer
Bruce E. Mayer

State of California)
County of Santa Cruz) SS

On January 7, 2000, before me, Janet A. Ryder, Notary Public of the State of California, personally appeared Bruce E. Mayer, 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 Janet A. Ryder



(Seal)