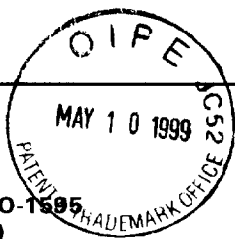


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(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the : Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**Varian Associates, Inc.**

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

2. Name and address of receiving party(ies)

Name: **Varian Semiconductor Equipment Associates, Inc.**

Street Address: 35 Dory Road

Gloucester, MA 01930

Additional name(s) & addresses(es) attached? [ ] Yes [x] No

3. Nature of conveyance:

[x] Assignment

[ ] Merger

[ ] Security Agreement

[ ] Change of Name

[ ] Other

Execution Date: **April 6, 1999**

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)

09/015,640

B. Patent No.(s)

Additional numbers attached? [ ] Yes [x] No

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

Name: William R. McClellan

Address: WOLF, GREENFIELD & SACKS, P.C.  
Federal Reserve Plaza  
600 Atlantic Avenue  
Boston, MA 02210

6. Total number of applications and patents involved: **[1]**

7. Total fee (37 CFR 3.41).....\$ 40

[ ] Enclosed

[x] Authorized to be charged to deposit account

The Commissioner is authorized to charge:

8. Deposit Account No: 50-0896

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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.*

William R. McClellan

William R. McClellan

MAY 7, 1999

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **[2]**

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

06/15/1999 DNGUYEN 00000272 500896 09015640

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Box Assignment  
Washington, D.C. 20231

251579.1

PATENT  
REEL: 010023 FRAME: 0923

# ASSIGNMENT

WHEREAS, VARIAN ASSOCIATES, INC., a corporation organized and existing under the laws of the State of Delaware and having its principal office in Palo Alto, California (hereinafter "ASSIGNOR") is the record owner of the United States Patent Application Serial No. 09/015,640 filed January 29, 1998 entitled METHOD FOR FORMING SHALLOW JUNCTIONS IN SEMICONDUCTOR WAFERS USING CONTROLLED, LOW LEVEL OXYGEN AMBIENTS DURING ANNEALING by Downey, Docket No. 97-69; and

WHEREAS, VARIAN SEMICONDUCTOR EQUIPMENT ASSOCIATES, INC., a Delaware corporation, having a principal place of business at 35 Dory Road, Gloucester, Massachusetts 01930 (hereinafter "ASSIGNEE") is desirous of obtaining ASSIGNOR's entire right, title and interest in, to and under the said patent application;

NOW THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over to ASSIGNEE, all of ASSIGNOR's entire right, title and interest in and to the patents and patent applications aforesaid, and to the inventions therein disclosed and claimed and to all international priority rights relating thereto throughout the world and in and to any continuations, divisions, reissues, reexaminations and extensions thereof along with any and all rights of enforcement with respect thereto, including all rights to sue or recover for the infringement thereof, and any and all choses in action related thereto, and that the ASSIGNEE may apply for and receive patents in its own name wherever so permitted by law and that ASSIGNOR shall, when requested by the ASSIGNEE, execute all rightful oaths, assignments, and powers of attorney, including but not limited to the right to file and prosecute in its own name, wherever so permitted by law, patent applications, including corresponding applications, and to claim priority of patent applications, including corresponding applications, and to claim priority of patent applications pursuant to the Paris Convention, to the ASSIGNEE and to agents and legal representatives of the ASSIGNEE and all other papers necessary and proper to carry out the intent and purpose of this Assignment of Patent.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment to be executed by its duly authorized representative on this 6<sup>th</sup> day of April, 1999.

VARIAN ASSOCIATES, INC. (ASSIGNOR)

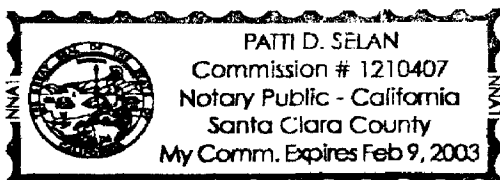
By: Hunter L. Auyang  
Name: Hunter L. Auyang  
Title: Assistant Secretary

State of California )  
 ) s.s.;  
County of Santa Clara )

On the 6<sup>th</sup> day of April, 1999, before me, Patti D. Selan, Notary Public, personally appeared Hunter L. Auyang, X personally known to me ~~or~~ proved to me on the basis of satisfactory evidence to be the person(s) whose names is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacityies, and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Patti D. Selan  
Signature of Notary



RECORDED: 05/10/1999

PATENT  
REEL: 010023 FRAME: 0924